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## BASIC FREE HANDS DOOR PHONE MOD. UTOPIA Ref. 1172/43



## PERFORMANCE

- Operation in 2nd edition systems only.
- Conversation privacy function (single integrated decoder)
- Speech signal activation button (hands-free) (B).
- Two-tone door phone call.
- Door opener button (A).
- Auxiliary service key (T2).
- Concierge call button (T1).
- Speech signal active led (L)
- Two-position adjustable call volume.
- Ringer mute function with visual indication.


## DESCRIPTION OF TERMINAL BOARDS

L1 Bus connection (not polarised)
L2 Bus connection (not polarised)
0
The maximum limit of door phones per column is 40 instead of 50 in case of installation of a Bibus hands-free door phone system. This also applies to mixed handset/hands-free systems.

## TECHNICAL SPECIFICATIONS

Stand-by consumption Active voice consumption:
Working temperature range:
Humidity:

## PROGRAMMING

Perform the door phones queuing sequence on the call module or on the concierge switchboard; then go in the apartment; keeping the door lock release button pressed, press the speech signal activation button.
Release the door lock release button and press again the speech signal activation button.
The door phone will sound to indicate that it has been programmed.

## OPERATION

On receiving a call, a voice connection can be established with the visitor by pressing voice activation key. At the end of the connection, press the same key to de-activate the voice connection.
The door opener button will operate the lock in the following cases:

- For the entire conversation time.
- Without hanging up for the programmed off-hook waiting time.

Calls can also be placed to the concierge in systems with switchboard.
Activate the voice connection and press the concierge call button (T1). Conversation with the switchboard will be established if the switchboard answers within 10 seconds and the door phone line is free. Otherwise, hang up and try again later. The switchboard will store the call (if the device is on) in this case.

ADJUSTING CALL VOLUME


## COMFORT FREE HANDS DOOR PHONE MOD. UTOPIA Ref. 1172/63



## PERFORMANCE

- Works in 2nd Edition systems only.
- Conversation privacy function (single integrated decoder)
- Door opener button (A).
- Auxiliary service key (T2).
- Concierge call button (T1).
- Two-position door unit call volume.
- Ringer mute function.
- Supplementary ringer Ref. 1072/59 control.
- Floor call button input.
- Speech signal activation button (hands-free) (B).
- Two-tone door phone call.
- Speech signal active led (L).


## DESCRIPTION OF TERMINAL BOARDS

L1 Bus connection (not polarised)
L2 Bus connection (not polarised)
C1 Floor call button input
C2 Floor call button input
S+ Supplementary ringer control positive
S- Supplementary ringer control negative

5
The maximum limit of door phones per column is 40 instead of 50 in case of installation of a Bibus hands-free door phone system. This also applies to mixed handset/hands-free systems.

## TECHNICAL SPECIFICATIONS

Stand-by consumption: Active voice consumption:
Working temperature range:
Humidity:
Supplementary ringer control:
1.6 mA max.
60 mA max.
$-5+45^{\circ} \mathrm{C}$
$90 \%$ RH at $30^{\circ} \mathrm{C}$
V max $=30 \mathrm{Vdc}$
I max $=40 \mathrm{mAdc}$
1.6mA max mA max. $90 \%$ RH at $30^{\circ} \mathrm{C}$

V max $=30 \mathrm{Vdc}$ I max=40mAdc

## PROGRAMMING

Perform the door phones queuing sequence on the call module or on the concierge switchboard; then go in the apartment; keeping the door lock release button pressed, press the speech signal activation button.
Release the door lock release button and press again the speech signal activation button.
The door phone will sound to indicate that it has been programmed.

## OPERATION

On receiving a call, a voice connection can be established with the visitor by pressing voice activation key. At the end of the connection, press the same key to de-activate the voice connection.
The door opener button will operate the lock in the following cases:

- For the entire conversation time.
- Without hanging up for the programmed off-hook waiting time.

Calls can be made to the concierge in systems with concierge phone or switchboard.

Lift the handset and press the concierge call button (T1).
Nothing will happen if the switchboard is off. Conversely, the door phone will beep and the call will be sent if the switchboard is on. Two possibilities may occur:

1. The switchboard answers within 10 s or the door phone line is free: a conversation with the switchboard is established.
2. The switchboard does not answer within 10s or the door phone line is busy: the switchboard stores the call and the LED on the door phone will flash after the 10s time-out. Hang up and wait for the switchboard operator to return the call.

## ADJUSTING CALL VOLUME



MAX
Maximum calling volume


MIN
Minimum calling volume


MUTE
No calling tone

## INSTALLATION

## WALL-MOUNTED VERSION

- To remove the cover of the door phone, insert the tip of a screwdriver in the area indicated and apply pressure. Extract the cover rotating this on the upper tabs.
- The door phone can be fi tted on the wall using the different holes on the base and the special plugs and screws provided with each set.


BASIC DOOR PHONE MOD. SIGNO Ref. 1172/50

## PERFORMANCE

- Operation in 2nd edition systems only.
- Conversation privacy function (single integrated decoder).
- Two-tone door phone call.
- Door opener button (A).
- Auxiliary service key (e).
- Concierge call button (•).

U Up to 2 door phones can be connected in parallel. The Ref. 1172/50 model will not ring for floor call service if installed in parallel to a door phone.

## DESCRIPTION OF TERMINAL BOARDS

L1 Bus connection (not polarised)
L2 Bus connection (not polarised)

## TECHNICAL SPECIFICATIONS

Stand-by consumption:
Active voice consumption:
Working temperature range:
Humidity:
1.6mA max.

60mA max.
$-5+45^{\circ} \mathrm{C}$
$90 \%$ RH at $30^{\circ} \mathrm{C}$

## PROGRAMMING

Go to the apartment, press the door opener button and pick up the door phone handset after setting up the door phone booking sequence on the call station or concierge switchboard.
Release the door opener button and hang up.
The door phone will sound to indicate that it has been programmed.

## OPERATION

The door opener button will operate the lock in the following cases:

- For the entire conversation time.
- Without hanging up for the programmed off-hook waiting time.

Calls can also be placed to the concierge in systems with switchboard.
Pick up the handset and press the concierge call button (T1). Conversation with the switchboard will be established if the switchboard answers within 10 seconds and the door phone line is free. Otherwise, hang up and try again later. The switchboard will store the call (if the device is on) in this case.

## COMFORT DOOR PHONE MOD. SIGNO

 Ref. 1172/55

## PERFORMANCE

- Works in 2nd Edition systems only.
- Conversation privacy function (single integrated decoder).
- Possibility of selecting one of six floor call ringer tones.
- Possibility of selecting one of six door phone ringer tones.
- Supplementary speaker for floor call and door phone call.
- Door opener button (A).
- Staircase light button (.).
- Switchboard call button ( $\bullet$ ).
- Configuration function button $\left({ }^{*}\right)$.
- Visual call in progress signal.
- Door open indication (if service is active).
- "Automatic door opener" function with visual indication.
- Two-position door unit call volume.
- Ringer mute function with visual indication by means of LED (slow blinking).
- Supplementary ringer Ref. 1072/59 control


## DESCRIPTION OF TERMINAL BOARDS

L1 Bus connection (not polarised)
L2 Bus connection (not polarised)
C1 Floor call button input
C2 Floor call button input
S+ Supplementary ringer control positive
S- Supplementary ringer control negative

## TECHNICAL SPECIFICATIONS

Stand-by consumption:
Active voice consumption:
Working temperature range:
Humidity:
Supplementary ringer control:
1.6mA max.

60mA max.
$-5+45^{\circ} \mathrm{C}$ $90 \%$ RH at $30^{\circ} \mathrm{C}$

V max=30Vdc I max=40mAdc

## PROGRAMMING

Go to the apartment, press the door opener button and pick up the door phone handset after setting up the door phone booking sequence on the call station or concierge switchboard.
Release the door opener button and hang up.
The door phone will sound to indicate that it has been programmed.
The following method can be used to program the door phones without accessing each apartment if no door phones have been programmed and if the system is set up for floor call function:
a) Book door phones on calling station as usual and go to the first booked user.
b) Press the floor call button; the door phone tone will be heard after programming.
c) Wait for five seconds and press the floor call button; the door phone (if programmed) will output the floor call tone.
d) Go to other users and repeat procedure from point b).

## OPERATION

The door phone can generate six different calling tones. The LED will blink to visually confirm selection.
The LED (L) will light up fi xed to indicate that one or more main input doors or the respective secondary door is open (where the service is activated only).
The door opener button will operate the lock in the following cases:

- For the entire conversation time.
- Without hanging up for the programmed off-hook waiting time.

Calls can be made to the concierge in systems with concierge phone or switchboard.

## CONCIERGE CALLSIN 2ND EDITIONSYSTEMS WITH CONCIERGE SWITCHBOARD

Lift the handset and press the concierge call button ( $\bullet$ ).
Nothing will happen if the switchboard is off. Conversely, the door phone will beep and the call will be sent if the switchboard is on. Two possibilities may occur:

1. The switchboard answers within 10s or the door phone line is free: a conversation with the switchboard is established.
2. The switchboard does not answer within 10s or the door phone line is busy: the switchboard stores the call and the LED on the door phone will flash after the 10s time-out. Hang up and wait for the switchboard operator to return the call.

## CONCIERGE CALLSIN 2ND EDITIONSYSTEMSWITH CONCIERGE DOOR PHONE

Lift the handset and press the concierge call button (e).
Nothing will happen if the door phone is off. Conversely, the concierge door phone will beep and the call will be sent if the concierge door phone is on
Two possibilities may occur:

1. The concierge answers within 10 s or the door phone line is free: a conversation with the concierge is established.
2. The concierge does not answer within 10s or the line is busy: the door phone LED will flash after the 10s time-out. Hang up and try again later.

## SELECTING CALLING TONES

The door phone is equipped with six two-tone calling tones each lasting 3 seconds. The door phone calling tone and the floor calling tone can be selected as follows:
Door phone call: Hold the configuration button pressed $\left(0^{\circ}\right)$ and press the "staircase lights" button ( $)$ : the door phone will play the six tones in sequence. Simply release the configuration button when the required tone is playing.
Floor call: Hold the confi guration button pressed $\left(^{\circ}\right.$ ) and press the "door phone switchboard call" button ( $\bullet$ ): the door phone will play the six tones in sequence. Simply release the configuration button when the required tone is playing.

## AUTOMATIC DOOR OPENER

This function is used to open the door automatically following a call. Hold the configuration button pressed $\left({ }^{\circ}\right)$ and press the door opener button $(A)$ to switch the function on and off; a confirmation tone will be heard and the LED will blink quickly when the door opener button is switched on and off (L).
The LED will blink quickly when the function is on.

## ADJUSTABLE CALL VOLUME

Hold the door opener button (A) pressed and press the "staircase light" button ( The volume will be adjusted in the Mute - Low - Loud sequence each time the button is pressed. The LED (L) will blink slowly when the ringer is muted.

## INSTALLATION

## WALL-MOUNTED VERSION



To remove the cover of the door phone, insert the tip of a screwdriver in the area indicated and apply pressure. Extract the cover rotating this on the upper tabs.


The door phone can be fi tted on the wall using the different holes on the base and the special plugs and screws provided with each set. For correct fastening to the wall, use the holes shown in the following drawing:



## TABLETOP VERSION

The Mod. Signo door phone may be tabletop mounted. For this purpose, purchase a specific tabletop transformation kit Ref. 1140/50 with socket.

Proceed as follows to assemble the door phone on the support:

1. Remove the door phone hood.
2. Screw the base to the support.
3. Insert the cable in the specific compartment and make the connections.
4. Fasten the cable to the support
5. Close the cover of the door phone
6. Fit the feet in the lower part of the support
7. Make the connections on the wiring junction box
8. Close the wiring junction box.


SIGNO BLACK/WHITE VIDEO DOOR PHONE Ref. 1740/1


The Signo video door phone, designed by architect Citterio, is provided with 1 button for door lock release backlit with a blue led, 3 buttons for additional services, call tone volume adjustment with function "Mute".
It is equipped with a special handset that allows deaf people, provided with a suitable earphone, to hear who is speaking from the push button panel.
The video door phone is easy to install, because no masonry is necessary and all connections can be done on the bracket to which it will be fastened.

## SPECIFICATIONS

The main characteristics of the video door phone are:

- Flat 4" black and white video module.
- Call tone volume adjustment and call exclusion function (Mute). The Mute function is signalled by a red indicator on the front side.

4 When volume is set to "MUTE" the video door phone will not ring but the video module will light up.

- The door lock release button is backlit by led when the video module is on.
- Service buttons $\left(\bullet, \bullet^{\bullet}\right)$, for example for the activation of additional electric locks, stairs lights, video door phone auto-on, etc.
- Adjustable brightness and contrast.

(1)


## door opener button

(2)

AUXILIARY BUTTONS

- FUNCTION BUTTON

Choice of door phone call ringer: holding down the function button, press the button $\bullet$. With each pressure on the button, the ringer changes. Release the button when you hear the ringer you want.
Choice of floor call ringer: holding down the function button, press the button *. With each pressure on the button, the ringer changes. Release the button: when you hear the ringer you want.

- AUXILIARY SERVICE BUTTON: staircase lights, garage door opener, etc.
- CALL BUTTON DOOR UNIT/AUTO-ON

Door unit: pick up the handset and press the button. Auto-on: press the button without picking up the handset.
(4) BRIGHTNESS ADJUSTMENT CONTROL
(5) CALL VOLUME CONTROL AND ADJUSTMENT


TECHNICAL SPECIFICATIONS

| Power voltage: Uptake: |  | $16 \div 18,5 \mathrm{Vdc}$ |
| :---: | :---: | :---: |
|  | Working: | max 0,35A |
|  | Stand-by: | OA |
| Working power: |  | max 6,5W |
| CCIR version: | Vertical frequency: | $50 \mathrm{~Hz} \pm 2 \mathrm{~Hz}$ |
|  | Horizontal frequency: | $15625 \pm 300 \mathrm{~Hz}$ |
| Video signal: |  | $1 \mathrm{Vpp} 75 \Omega$ nominal |
|  |  | 1Vpp -6dB minimum |
| Kinescope: |  | 4,5" flat 13mm neck |
| Phosphorous: |  | P45 |
| Screen size: |  | $81 \times 59 \mathrm{~mm}$ |
| Geometric distorsion: |  | vert. 5\% max. |
|  |  | horiz. 5\% max. barrel 10\% max |
| Brightness: |  | $170 \mathrm{~cd} / \mathrm{m}^{2}$ max. setting |
| X-rays: |  | none |
| Switch-on delay: |  | 4sec. Max |
| Transmitting capsule: |  | electret microphone |
| Receiving capsule: |  | $45 \Omega$ speaker |
| Buttons contacts range: |  | 0,5A @ 18Vdc |
|  |  | $-5^{\circ} \div+50^{\circ} \mathrm{C}$ |
| Operating temperature range:Max. humidity: |  | 90\% UR |

TECHNICAL SPECIFICATIONS

SIGNO COLOUR VIDEO DOOR PHONE Ref．1740／40


The Signo video door phone，designed by architect Citterio，is a colour apartment station that，as for the black／white version，is provided with a door lock release button backlit with blue led， 3 buttons for additional services，call tone volume adjustment with＂Mute＂function．

It is equipped with a special handset that allows deaf people，provided with a suitable earphone，to hear who is speaking from the push button panel．
The video door phone is easy to install，because no masonry is necessary and all connections can be done on the bracket to which it will be fastened．

## SPECIFICATIONS

The main characteristics of the video door phone are：
－4＂LCD colour fl at video module．
－Call tone volume adjustment and call exclusion function（Mute）．The Mute function is signalled by a red indicator on the front side．
When volume is set to＂MUTE＂the video door phone will not ring but the video module will light up．
－The door lock release button is backlit by led when the video module is on．
－Service buttons $(\bullet \cdot \bullet$ ），for example for the activation of additional electric locks，stairs lights，video door phone auto－on，etc．
－Image brightness and colour adjustment．


## DOOR OPENER BUTTON

（2）
AUXILIARY BUTTONS
－FUNCTION BUTTON
Choice of door phone call ringer：holding down the function button，press the button $\bullet$ ．With each pressure on the button， the ringer changes．Release the button when you hear the ringer you want．
Choice of floor call ringer：holding down the function button， press the button ．With each pressure on the button，the ringer changes．Release the button when you hear the ringer you want．
－AUXILIARY SERVICE BUTTON：staircase lights，garage door opener，etc．
－CALL BUTTON DOOR UNIT／AUTO－ON
Door unit：pick up the handset and press the button． Auto－on：press the button without picking up the handset．

COLOUR ADJUSTMENT CONTROL
（4）CONTRAST ADJUSTMENT CONTROL
（5）CALL VOLUME CONTROL AND ADJUSTMENT


## SIGNO BRACKETS REF. 1740/954



Signo video door phone are provided without fastening bracket which must be purchased separately.

- Bracket for Bibus II^ ed. VOP systems

Ref. 1740/954
The bracket Ref. 1740/954 to be combined with black/white Signo video house phones offers the following features:

- Non-polarised video input.
- Video connection with floor distributor Ref. 1074/55.
- In/out video connection.
- Possibility of connecting an additional video door phone.
- Privacy function.
- 6 two-tone ringers (the installer can select the door phone call and floor call tones).


## BRACKET TERMINALS

VPI VOP signal input terminals
VPU VOP signal output terminals (for in-out or parallel video door phone connection)
L1, L2 Door phone bus
C1, C2 Floor call
S+, S- Supplementary ringer control
Important: Never fit the video terminal resistors.

## TECHNICAL SPECIFICATIONS

Max. VPI uptake with video door phone fitted: 450mA
Stand-by uptake (L1, L2): 1.6mA max. $-5 \div+45^{\circ} \mathrm{C}$

## INSTALLATION

The video house phone can be wall mounted (using the bracket), as follows:

- Arrange the duct so that it ends in correspondence with one of the input holes.
- Fasten the bracket to the wall at a height of around 1.55 m from the floor using four screws,.
- Connect the wires to the specific terminals.
- Extract the retainer hook $\alpha$ by pulling it downwards
- Fasten the video house phone to the bracket as shown in the figure.
- Fasten the video house phone by pushing the retainer hook $\alpha$ upwards.



## TABLETOP VERSION

Signo can be table-mounted using the specific kit Ref. 1740/92 containing: one tabletop stand, one socket and one cord.

Proceed as follows:

- Fasten the bracket to the tabletop stand
- Insert the wire from the junction box through the rear hole of the support and fasten it using the U-bolt and the screw provided.
- Connect the junction box wires to the specifi c terminals on the bracket.
- Extract the retainer hook $\alpha$ from the video door phone.
- Fit the video door phone on the bracket and fasten it by pushing the hook $\alpha$ up.
- Connect the system wires to the corresponding socket terminals.
- Close the socket



## ARCO BLACK/WHITE VIDEO DOOR PHONE Ref. 1715/1



Besides its modern style, Arco is equipped with the best technology for image displaying, offering the best quality/price ratio. This video door phone can be used in any new architectural context and also to replace the previous models Artico and Sentry+. Arco can be surface mounted, avoiding masonry works for the fl ush mounting box and is provided with a 4" fl at screen that reduces the wall level stick-out.


The video door phone Ref. 1715/17 is set up to a speaker capable interfacing with hearing aids by means of the "T" function.

## SPECIFICATIONS

The main characteristics of the video door phone are:

- Flat 4" black and white video module.
- Call tone volume adjustment and call exclusion function (Mute). The Mute function is signalled by a red indicator on the front side.


MAX.


MIN.


MUTE

5 When volume is set to "MUTE" the video door phone will not ring but the video module will light up.

- Door opener button dedicated and additional buttons $(\bigcirc, \bigcirc)$ for example for the activation of additional electric locks, stairs lights, video door phone auto-on, etc.
- Adjustable brightness and contrast.



## TECHNICAL SPECIFICATIONS

Power voltage:
$16 \div 18,5 \mathrm{Vdc}$
Uptake: max 0,6A
Working power: max 10W
CCIR version:
Vertical frequency:
Horizontal frequency:
Video signal:
Kinescope:
Phosphorous:
Geometric distorsion:

Brightness:
X-rays:
Switch-on delay:
Transmitting capsule:
Receiving capsule:
Buttons contacts range:
Operating temperature range:
Max. humidity:
$50 \mathrm{~Hz} \pm 2 \mathrm{~Hz}$
$15625 \pm 300 \mathrm{~Hz}$ 1Vpp $75 \Omega$ nominal 1Vpp-6dB minimum 4" flat 20 mm neck P45
vert. 5\% max. horiz. 5\% max. barrel 10\% max. $>100 \mathrm{~cd} / \mathrm{m}^{2}$ max. setting

## none

7sec. Max electret microphone $45 \Omega$ speaker 1,2A @ 24Veff
$-5^{\circ} \div+50^{\circ} \mathrm{C}$ 90\% UR

## ARCO BRACKETS REF. 1705/954



Arco video door phone are provided without fastening bracket which must be purchased separately:

- Bracket for Bibus II^ ed. VOP systems

Ref. 1705/954
The following functions are offered by using brackets Ref. 1705/954 in combination with Atlantico video door phones:

- Non-polarised video input.
- Video connection with floor distributor Ref. 1074/55
- In/out video connection.
- Possibility of connecting an additional video door phone.
- Privacy function.
- 6 two-tone ringers (the installer can select the door phone call and floor call tones).


## BRACKET TERMINALS

$\left.\begin{array}{l}\text { VPI } \\ \text { VPI }\end{array}\right\}$ VOP signal input terminals
VPU \} VOP signal output terminals
(for in-out or parallel video door phone connection)
L1 $\}$ Door phone bus
$\left.\begin{array}{l}\text { L2 } \\ \text { C1 }\end{array}\right\}$ Floor call

| C 2 |
| :--- |
| $\mathrm{~S}+$ |

$\left.\begin{array}{l}\text { S+ } \\ \text { S- }\end{array}\right\}$ Wire for supplementary ringer control
Important: Never fit the video terminal resistors.

## TECHNICAL SPECIFICATIONS

Max. VPI uptake with video door phone fitted: 450mA
Stand-by uptake (L1, L2):
1.6 mA max
$-5 \div+45^{\circ} \mathrm{C}$

## INSTALLATION

- Arrange the duct so that it ends in correspondence with one of the input holes.
- Fasten the bracket to the wall at the height from the floor shown by means of the four screws.
- Connect the wires to the specific terminals
- Set the switch (on back of video door phone) to position "B".
- Extract the retainer hook $\alpha$
- Fasten the video door phone to the bracket
- Fasten the video door phone by pushing the retainer hook $\alpha$



## TABLETOP VERSION

Arco can be table-mounted using the specific kit Ref. 1715/50 containing: one tabletop stand, one socket and one cord.

Proceed as follows:

- Fasten the bracket to the tabletop stand
- Insert the wire from the junction box through the rear hole of the support and fasten it using the U-bolt and the screw provided.
- Connect the junction box wires to the specific terminals on the bracket.
- Extract the retainer hook $\alpha$ from the video door phone.
- Fit the video door phone on the bracket and fasten it by pushing the hook $\alpha$ up.
- Fit the feet in the lower part of the support.
- Connect the system wires to the corresponding socket terminals.
- Close the socket


ARCO BLACK/WHITE VIDEO DOOR PHONE Ref. 1715/1
INSTALLATION


く Consider the following correspondence between terminals when using the table mounting kit in Bibus 2nd edition VOP systems:

| Table mounting kit Ref 1715/50 | Bracket <br> d. 1705/954 |
| :---: | :---: |
|  | Ref. 1705/954 |
| R2 | VPI |
| X1. | .. L1 |
| X2. | L2 |
| Y1. | C1 |
| Y2. | C2 |

Important: The table mounting kit Ref. 1715/50 may be used for installing video door phones without in/out connection to other devices.

## PARALLEL VIDEO DOOR PHONE INSTALLATION

A configuration of up to two video door phones in parallel can be obtained without the addition of local power units (refer to the VOP 1074/20 video power unit instruction booklet for wiring). A door phone with additional self-powered ringer may be added to the two video door phones in parallel.
Operation is described below. Both video door phones (and the door phone connected in parallel where relevant) ring when a call is received but only the "master" video door phone (i.e. the one connected directly to the column or to the VOP extension) will light up.
The picture can be seen on the video door phone which is off from this time until the programmed call station off-hook time-out (typically 40 seconds) by pressing the concierge call button without picking up the handset.
The handset of either of the two video door phones can be picked up to establish a communication with the door unit and definitely capture the picture.
The floor call button must be connected to a single video door phone.

## AUTO-ON

Video or audio/video auto-on from the MAIN station 1 is possible. With the door phone standing by, press the concierge call button without picking up the handset. Nothing will happen if the main station 1 has either a conversation in progress or is busy; otherwise, the video door phone will ring and the video door phone will light up. The door can be opened and a voice connection can be established by picking up the handset within the off-hook time-out (typically 40 seconds).

VOP 4-USER AUDIO VIDEO DISTRIBUTOR Ref. 1074/55

VOP 4-USER AUDIO VIDEO DISTRIBUTOR Ref. 1074/55


The VOP floor audio video distributor, to be installed in the column, is dedicated to the VOP system and offers the following features:

- Setting up of systems distributed on 4 extensions
- Inputs, outputs and extensions are not polarised.
- Is powered directly by the VOP.
- Automatic switching to the extension that has the bracket active.

The floor video distributor distributes the VOP video signal of the system riser column and the audio signal on 4 video house phones.

Monitors or other floor video distributors can be connected to the extension outputs.
Up to 13 can be connected using the distributor passing output.
Only up to 2 distributors can be connected in series using extension outputs.

TECHNICAL SPECIFICATIONS

| VPI power: <br> Temperature: |  |  | $\begin{aligned} & 14 \div 28 \mathrm{Vdc} \\ & -5 \div+45^{\circ} \mathrm{C} \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| TERMINALS DESCRIPTIONS |  |  |  |
| $\begin{aligned} & \text { L1 IN } \\ & \text { L2 IN } \end{aligned}$ | AUDIO IN AUDIO IN |  |  |
| $\begin{aligned} & \text { L1 OUT } \\ & \text { L2 OUT } \end{aligned}$ | AUDIO OUT AUDIO OUT | Column |  |
| VPI VPU | VIDEO IN VIDEO OUT |  |  |
| $\begin{array}{ll} \text { L1 } & \text { I } \\ \text { L2 } & \text { I } \end{array}$ | AUDIO OUT AUDIO OUT | Videodoorphone 1 |  |
| VP I | VIDEO OUT |  |  |
| $\begin{array}{ll} \text { L1 } & \text { II } \\ \text { L2 } & \text { II } \end{array}$ | AUDIO OUT AUDIO OUT | Videodoorphone 2 |  |
| VP II | VIDEO OUT |  |  |
| $\begin{array}{ll} \text { L1 } & \text { III } \\ \text { L2 } & \text { III } \end{array}$ | AUDIO OUT AUDIO OUT | Videodoorphone 3 |  |
| VP III | VIDEO OUT |  |  |
| $\begin{array}{ll} \text { L1 } & \text { IV } \\ \text { L2 } & \text { IV } \end{array}$ | AUDIO OUT AUDIO OUT | Videodoorphone 4 |  |
| VP IV | VIDEO OUT |  |  |

Important: Never fit the video terminal resistors $82 \Omega 1 / 4 \mathrm{~W}$.
5 If the 1074/55 device is used instead of the 1074/54, connect the cables of the video signal to the 1074/55 device as connected on the 1074/54. The audio signal cables can be connected to the L1 L2 dedicated connectors as indicated above or leaving the electrical connection set up when using the 1074/54.


## BiBus II ED. VOP SYSTEM

## Download from www.urmetdomus.com Technical Manuals area.

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## DOOR PHONE SYSTEMS

## PERFORMANCE

Suitable for small and medium door phone and video door phone installations, the Bibus 2nd Edition system is ideal for making new systems and modernising old ones.

The main characteristics of the system are:

- Door phone systems can be made using only two non-polarised wires.
- Video door phone systems can be made with the addition of only two wires in the column.
- The system manages both button and/or alphanumeric calling stations with electronic repertory (both main and secondary). Alphanumeric codes can contain letter prefixes or suffixes (from A to J).
- Either numeric or alphanumeric keypad modules can be used (with dedicated alphabetic keyboard add-on).
- Panels with front plate or modular panels may be used.
- Up to 18 buttons can be connected to the door unit with digitiser Expansion modules can be connected to the door unit by means of a flat wire to obtain a higher number of buttons. Up to 16 buttons can be connected to each expansion module. Up to 4 expansion modules can be connected to each door unit. Consequently, a total of 82 buttons can be managed (up to 34 buttons can be installed on the 1128 panel without needing additional expansion modules).
- The system can manage up to 250 users.
- Conversation privacy does not require the addition of optional devices.
- The following Bibus 2nd Edition system timing features can be programmed by installer:
- Maximum off-hook waiting time: this is the time elapsing from when a call is made from a station and the called door phone handset is picked up; the system interrupts the call after this period of time; programmable from 10 to 40 seconds.
- Minimum conversation time: in systems with several calling stations, this is the minimum guaranteed time (programmable from 10 to 40 seconds) for a conversation with a calling station before it can be interrupted by other calls.
- Busy time: in systems with several calling stations, this is the time during which an external station cannot make a call because another call or conversation is in progress at another station; this is the sum of the off-hook waiting time and the minimum conversation time.
- The maximum conversation time without other calls is 250 seconds.
- The electrical lock connected to the door unit or the calling module can be operated during the conversation. The lock operating time can be programmed. It is controlled by a relay for button calling units and by capacitance discharge for calling modules.
- The system generates courtesy tones for the door unit when a call is in progress.
- A concierge switchboard can be connected to the system to provide typical switchboard performance (e.g. day service, night service, off, unanswered call memory, etc.).
- The switchboard can operate the door lock of all units, both when a call is in progress and when it is not.
- Door phone and video door phone floor calls can be managed with different tones.
- Up to three door phones can be connected in parallel to each user.
- Up to 250 names with an associated 4-digit door opener code (without time limitation) and up to eight 4-digit numeric door opener codes (disabled by the timer contact) can be programmed for each calling module.
- Possibility of switching on staircase lights by means of special decoder or bus coupler controllable by the door phones or by the switchboard.
- Door open indication by means of LED on door phones.
- Possibility of interfacing with a PABX switchboard via adapter.
- The system is protected from static and pulse electromagnetic interference. All devices comply with CE directives in the matter of electromagnetic compatibility.

Unlike Bibus 1st Edition systems, a univocal user code is provided so that the door phones ONLY NEEDS TO BE PROGRAMMED ONCE, also if the system includes several calling stations. Alternatively, the door phones can be programmed via the concierge switchboard.

## SYSTEM TYPOLOGIES

Bibus 2nd Edition can be used to make the following types of system with main and secondary calling stations:

- Digital call door phone systems (with or without secondary stations).
- Digital call door phone or video door phone systems with concierge switchboard and/or concierge door phone.
Bibus 2nd edition systems can be used to make systems with up to 12 total calling stations. Up to 10 secondary stations can be used.
Bus couplers which separate the main side bus from the door phone side bus must be arranged between the main call stations and the single decoder phones. Any secondary call stations must be connected to the bus on door phone side.
Up to 12 couplers can be connected to which up to 50 door phones can be connected. Up to 250 door phones can be connected in the system.
Each coupler divides the door phone side bus into two spines and can be cut off in the event of a failure concerning one of the spines.
One only master coupler which powers the main panel side bus must be defined in the system (by inserting a jumper in the corresponding connector).
The number of devices which can be used in the system according to the number of main stations is shown below:

| Number of <br> main stations | Number of columns <br> with secondary stations | Max. number of columns <br> without secondary stations | Max.number <br> of couplers |
| :---: | :---: | :---: | :---: |
| $1 \div 12$ | 0 | 12 | 12 |
| 1 | 10 | 0 | 10 |
| 2 | 10 | 0 | 10 |
| $1 \div 3$ | 9 | 3 | 12 |
| 4 | 8 | 4 | 12 |
| 5 | 7 | 5 | 12 |
| 6 | 6 | 6 | 12 |
| 7 | 5 | 7 | 12 |
| 8 | 4 | 8 | 12 |
| 9 | 3 | 9 | 12 |
| 10 | 2 | 10 | 12 |
| 11 | 0 | 11 | 12 |
| 12 |  |  | 12 |

The system is particularly suitable for condo door phone systems, with or without concierges switchboard. It is not suitable for installation in which intercom use between the switchboard and the internal stations is predominant (supermarkets, offices and condos with intensive intercom use).
Digivoice system is recommended instead for these applications.

All columns in the system have a secondary panel in this example.


Max. 12 total call stations

## Example of system columns without secondary panel



Max. 12 main call stations

| UFTIIC | DOOR PHONE SYSTEMS |
| :---: | :---: |
|  | sYStem typologies |

## Example of system columns with and without secondary panel



Max. 12 total call stations

Example of single column system without secondary panel


## APARTMENT STATION PROGRAMMING

A code of the following type must be associated to each apartment station in the system:

- Numeric (e.g. 1234)
- Alphanumeric with letter suffix (e.g. 123A)
- Alphanumeric with letter prefix (e.g. A123)

All apartment station codes must be of the same type.

## SYSTEM WITH NUMERIC CODES

The numeric code format is Nxxx, where N is a number from 0 to 9 identifying the secondary calling station which depends on the apartment station, and $x x x$ is a number from 001 to 998 identifying the apartment station within its group.
The code of columns without secondary calling stations in the system (where fitted) must be Mxxx, where M must not be the same as any secondary station ID (N).


## SYSTEM WITH ALPHANUMERIC CODE AND LETTER SUFFIX

The alphanumeric code format is Nxxx , where N is a number from 0 to 9 identifying the secondary calling station which depends on the apartment station, and $x x x$ is a number from 00A to 991 identifying the apartment station within its group.
The code of columns without secondary calling stations in the system (where fitted) must be Mxxx, where M must not be the same as any secondary station ID (N).


## SYSTEM WITH ALPHANUMERIC CODE AND LETTER PREFIX

The alphanumeric code format is Nxxx, where $N$ is a letter from $A$ to $J$ identifying the secondary calling station which depends on the apartment station, and $x x x$ is a number from 001 to 998 identifying the apartment station within its group.
The code of columns without secondary calling stations in the system (where fitted) must be Mxxx, where M must not be the same as any secondary station ID (N).


## VIDEO DOOR PHONE SYSTEMS

The Bibus 2nd edition VOP (Video Over Power) system is created as an extension of the door phone system with the addition of devices and wires.
The addition of only two non polarised wires in the column is required to carry power and video signals to the monitors.

## PERFORMANCE

The performance of the Bibus 2nd edition VOP system is essentially that of the Bibus 2nd edition door phone system with the additional of the following features.

- The number of devices which can be connected and the maximum distances are those of the Bibus 2nd edition door phone system without restrictions due to video; this means that a distance of 600 m is possible between main camera and monitor with a maximum distance of 200 m from the column.
- Specifically, an extended differential (DE) video system is used in the section between video door unit and video power units; this system consists of camera video signal converters (Ref. 1742/13A)*, video distributors (Ref. 1795/40) and a possible video signal regenerator (Ref. 1795/250) (see "Distance between camera and VOP power unit" section).
- In-out systems or systems with floor video distribution can be made with only four wires in the column; these are two pairs of non polarised wires, namely: 1 pair for video and 1 pair for audio.
- Urmet Domus provides a dedicated wire (Ref. 1074/90) for riser column installation. This wire ensure optimal system operation and the best video picture quality within the maximum distance range.
- A simple AWG22 telephone pair can be used for carrying video signal only between cameras and VOP video power unit (Ref. 1074/20).
- The video door phone models can be installed black and white or colour version.
- Up to two video door phone can be installed in parallel (without use of local power units); only one monitor will light up in this case.
- The monitor will light up when the call is received and will remain on for the entire duration of the conversation (max. 250s)
- Automatic audio-video on function is possible for one main station monitor (number 1).
- A Scaitel video module can be combined with the concierge switchboard.
- Do not use $82 \Omega$ 1/4W terminal resistors on monitors and distributors.
* K-steel model: device Ref. 1742/13A is not used because cameras Ref. 1755/30A and Ref. 1755/45 fit a similar device inside.


## SYSTEM TYPOLOGIES

As mentioned, the Bibus 2nd edition VOP system is the evolution of the Bibus 2nd edition door phone system with the addition of the video component. The audio part is separated on street side and column side by bus couplers; similarly the video part is separated between camera and column monitor side by the VOP video power unit. This device, in addition to powering the column monitors, conveys the video signal from the main side or the secondary side on the power lines
Some typical system configurations are shown below.

1. Single column system with floor distributor

2. Single column system with in-out connection

3. System with several video door phone columns, main video door unit and in-out connection (each column is connected to a secondary electrical door unit)



 ,

## MAXIMUM DISTANCE BETWEEN DEVICES IN THE SYSTEM

The following tables show the maximum connection lengths between the various modules in the system and the respective cross-section area of the wires.

## DOOR PHONE SYSTEMS

| Maximum distance (m) | 50 | 100 | 200 | 400 |
| :---: | :---: | :---: | :---: | :---: |
| Wires L1, L2, ~0, ~12 between: <br> - Master bus coupler <br> - Any device connected on main station side | $0.75 \mathrm{~mm}^{2}$ |  | $\begin{gathered} 1.5 \\ \mathrm{~mm}^{2} \end{gathered}$ | $\begin{gathered} 2,5 \\ \mathrm{~mm}^{2} \end{gathered}$ |
| Wires in segments L1 -B1 <br> and L2 -B2 between: <br> - Bus coupler <br> - Most distant apartment station or special decoder | $0.75 \mathrm{~mm}^{2}$ |  |  |  |
| Wires L1, L2, ~0, ~12 between: <br> - Bus coupler <br> - Secondary station | $0.75 \mathrm{~mm}^{2}$ |  | $\begin{gathered} 1.5 \\ \mathrm{~mm}^{2} \end{gathered}$ |  |
| Wires SE1, SE2 between: <br> - Calling module <br> - Electrical door lock | $\begin{gathered} 1.5 \\ \mathrm{~mm}^{2} \end{gathered}$ |  |  |  |
| Wire $\sim 0$ and $\sim 12$ between: <br> - Bus coupler <br> - Electrical door lock connected to door unit with digitiser | $0.75 \mathrm{~mm}^{2}$ |  | $\begin{gathered} 1.5 \\ \mathrm{~mm}^{2} \end{gathered}$ | $\begin{gathered} 2,5 \\ \mathrm{~mm}^{2} \end{gathered}$ |

Sections shown in table refer also to use of transformer Ref. 9000/230 (for wires $\sim 0$ and ~12).

## VIDEO DOOR PHONE SYSTEMS

| Maximum distance (m) | 50 | 100 | 200 | 400 |
| :---: | :---: | :---: | :---: | :---: |
| L1, L2, VPI, VPU column wires between: <br> -bus coupler/VOP power unit <br> -video door phone | Wire 1074/90 |  |  |  |
| L1, L2, 0~, 12~ wires between: <br> -master bus coupler <br> - any device connected on main station side | $0.75 \mathrm{~mm}^{2}$ |  | $\begin{gathered} 1.5 \\ \mathrm{~mm}^{2} \end{gathered}$ | $\begin{gathered} 2.5 \\ \mathrm{~mm}^{2} \end{gathered}$ |
| 0~, 12~ wires between: <br> -bus coupler <br> -electrical door lock connected to door unit with digitiser |  |  |  |  |
| Video power street side: R1, R2 wires |  |  |  |  |
| L1, L2, 0~, 12~ wires between: <br> -bus coupler <br> - secondary station | $0.75 \mathrm{~mm}^{2}$ |  | $\begin{gathered} 1.5 \\ \mathrm{~mm}^{2} \end{gathered}$ |  |
| Wires SE1, SE2 between: <br> -Call module <br> - Electrical door lock | $\begin{gathered} 1.5 \\ \mathrm{~mm}^{2} \end{gathered}$ |  |  |  |
| Video signal street side: Wires A, B | Pair wire AWG22 ( $0.28 \mathrm{~mm}^{2}$ ) |  |  |  |

Sections shown in table refer also to use of transformer Ref. 9000/230 (for wires ~0 and ~12).

Loose wires with a cross-section area of at least $0.2 \mathrm{~mm}^{2}$ can be used if the distance between the video distributor Ref. 1074/54 and the video door phone brackets is less than 10 m . In this case, the maximum distance of the VOP video power unit is reduced from 200 m to 160 m in columns with Arco or Artico video door phones.

## MAXIMUM EXTENSION OF THE DOOR PHONE SYSTEM

The sum of all the bus sections on main station bus side must be less than 800 metres. The sum of all the door phone bus sections of a coupler must be lower than 800 metres.

The maximum distance between floor call button and apartment station must be less than 10 metres with wire section $0,5 \mathrm{~mm}^{2}$.

## NUMBER OF DEVICES AND DISTANCES IN COLUMN ACCORDING TO WIRE TYPE

The maximum number of devices which can be connected to a VOP video riser column are:

- Maximum number of video door phones $=50$
- Maximum number of in-out video distributors = 13
- Maximum number of video distributors in series $=2$

The maximum distance on a VOP riser is 200 m with the following limits:

| Columns |
| :--- | :---: | :---: | :---: | :---: |
| with |
| Atlantico, |
| Signo or |
| Utopia |
| video door |
| phones |\(~\left(\left.\begin{array}{c}Number of <br>

video door <br>
phones\end{array} \quad $$
\begin{array}{c}\text { Max. } \\
\text { distance } \\
\text { with } \\
1074 / 90 \\
\text { wire }\end{array}
$$ $$
\begin{array}{c}\text { Max } \\
\text { distance } \\
\text { with two } \\
\text { AWG 22 } \\
\text { pair wires }\end{array}
$$ $$
\begin{array}{c}\text { Max. }\end{array}
$$ $$
\begin{array}{c}\text { distance with } \\
\text { wires } \\
0.2 \mathrm{~mm}^{2} \\
\text { minimum } \\
\text { cross-section } \\
\text { area }\end{array}
$$ \right\rvert\,\right.\)

| Columns with <br> Sentry+, Arco <br> or Artico <br> video door <br> phones | Number of <br> video door <br> phones | Max. <br> distance <br> with <br> $1074 / 90$ <br> wire |
| :--- | :---: | :---: |
| In-out <br> configuration | 50 | 170 m |
| In-out <br> configuration | 44 | 200 m |
| Distributor <br> configuration | 50 <br> (13 distributors) | 200 m |


| Columns <br> with <br> Atlantico <br> or Utopia <br> video door <br> phones | Number of <br> video door <br> phones | Max. <br> distance <br> with two <br> AWG 22 <br> pair wires | Max. <br> distance with <br> wires <br> $0.2 \mathrm{~mm}^{2}$ <br> minimum <br> cross-section <br> area |
| :--- | :---: | :---: | :---: |
| In-out <br> configuration | 50 | 80 m | 50 m |
| Distributor <br> configuration | 40 <br> (10 distributors) | 80 m | 50 m |

Contact the Urmet Domus Customer Service Technical Area for special configurations.

## DISTANCES BETWEEN CAMERAS AND VOP POWER UNIT

- The secondary camera may be arranged at a maximum distance of 200m from the VOP video power unit.
- The main camera may be arranged at a maximum distance of 400 m from the VOP video power unit.
The distance of the main camera must be set on the VOP video power unit for the video signal to be correctly regenerated inside the video power unit before being transmitted to the column. If some main cameras are out of the set range, set the closest range then use the video regenerator Ref. 1795/250 for the most distant

| Example <br> no. | Distance between <br> TV Camera 1 <br> and VOP <br> power unit | Distance <br> between <br> TV Camera 2 <br> and VOP <br> power unit | Distance set <br> on VOP <br> power unit | Distance set on <br> signal <br> regenerator |
| :---: | :---: | :---: | :---: | :---: |
| 1 | $\leq 200 \mathrm{~m}$ | $\leq 200 \mathrm{~m}$ | $0 \div 200^{*}$ | Not required |
| 2 | $\leq 200 \mathrm{~m}$ | $200 \div 400$ | $0 \div 200^{*}$ | $200 \div 450$ |
| 3 | $200 \div 400$ | $200 \div 400$ | $200 \div 400$ | Not required |

* default settings

cameras.


## ACTIVATING THE SYSTEM

Power the system and check that the LEDs on each coupler are on. Go to the next step if the LEDs are on. A LED may not come on: this indicates an anomaly on the apartment station spine.
4. The coupler will attempt to reactivate the faulty spine approximately once a minute for up to ten times. The faulty spine will be cut off after ten failed attempts. To restore, power the coupler down, eliminate the spine problem and power the coupler again.

Program the devices in the following order:

1. Program the calling stations one by one. Pay particular attention to the system configuration (1st Edition or 2nd Edition) and to the type of station (main or secondary).
2. Program the calling button user codes for button stations
3. Program the door phones, video door phones and PABX adapters (where fitted) from any calling station.
4. Test the columns by calling from the respective secondary stations.
5. Test the main stations by making at least one call in each column.
6. Program the switchboard (where fitted) and test it, verifying concierge services.

INSTALLATION
7. Program special decoders (where fitted) and verify operation.

Coupler Ref. 1072/24 does not need programming. The type of system (1st Edition or 2nd Edition) does not need to be programmed for door phones, PABX interfaces and special decoders because these devices be configured according to the system type automatically.

## RETROFITTING BIBUS 1ST EDITION SYSTEMS

All Bibus 2nd Edition devices, except for Ref. 1072/24 coupler, door phones and switchboard Ref. 1072/42 can be used in 1st Edition systems.
The devices must be configured appropriately (either 1st Edition or 2nd Edition) in order to work correctly in the system. Consider the following:

1. The system must be configured as a 1st Edition system if it contains one or more 1st Edition devices.
2. The system must be programmed as a 2nd Edition system when all the devices in the system are 2nd Edition devices.

Refer to the various devices for programming instructions.

## TROUBLESHOOTING MAIN SYSTEM PROBLEMS

1) One or more LEDs on the bus coupler (Ref. 1072/24) are off. Presence of short-circuit in the corresponding bus coupler door phone spine.
2) The following message appears on the main calling module or switchboard display: "NO CONNECTION".
Presence of short-circuit on panel side bus circuit (L1, L2) or not only one bus coupler is programmed as master.
3) The main door unit with digitiser does not work (e.g. no courtesy tone after a calling button is called).
Presence of short-circuit on panel side bus circuit (L1, L2) or not only one bus coupler is programmed as master.
4) Door phone installation

Door phones are automatically configured for working either in a 1st or 2nd Edition system. Before installing a door phone in a Bibus 2nd Edition system, power down the coupler related to the door phone column, power it up again and program the replaced door phone to ensure correct system synchronisation. Alternatively, the door phones can be installed when the system is powered but in this case at least one call must be made from a calling station or switchboard in the system for auto-configuration to be carried out correctly.
The device is automatically configured when it is switched on in a 1st Edition system.
Program the door phone after installation.

## POSSIBLEPROBLEMSRELATEDTOPROGRAMMING ERRORS

## NEW 2ND EDITION SYSTEMS

| Programming error | Effect |
| :--- | :--- |
| Main calling station programmed <br> as 1st Edition device | The door phones called from this <br> station will only ring if they were <br> programmed from this station <br> but there is no voice. |
| Secondary calling station <br> programmed as 1st Edition <br> device | The door phones called from this <br> station will only ring if they were <br> programmed from this station <br> but voice is attenuated with <br> possible Larsen effect. |
| Switchboard programmed as 1st <br> Edition device. | The switchboard cannot receive <br> calls from calling stations and <br> door phones. |
| Main calling station programmed <br> as secondary station | The door phone called by the <br> station ring but there is no voice <br> and the door cannot be opened. |
| The other main stations do no <br> switch to busy when this station <br> is calling. |  |
| Secondary calling station <br> programmed as main station | The door phones of other <br> columns can be called by this <br> station but there is no voice. The <br> main stations switch to busy. |
| Door phone programmed with <br> code not belonging to column <br> (e.g. door phone 1001 in column <br> 2) | The door phone cannot be <br> called by the column secondary <br> (e.g. 1001 cannot be called by <br> secondary 2). The door phone <br> can be called by a secondary in <br> another column but there is no <br> voice and the door cannot be <br> opened (e.g. 1001 in column 2 <br> can be called by secondary 1). |

## RETROFITTING 1ST EDITION SYSTEMS

| Programming error | Effect |
| :--- | :--- |
| Main calling station programmed <br> as 2nd Edition device | The door phones called by this <br> station do not ring. |
| Switchboard programmed as <br> 2nd Edition device. | The switchboard cannot receive <br> calls from calling stations and <br> door phones. |

## PROGRAMMING

## Download from www.urmetdomus.com Technical Manuals area.

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## PROGRAMMING PROCEDURE FOR DOOR UNITS WITH DIGITISER

The door unit can be programmed in systems with up to three main calling stations without secondary stations simply by means of the LED button and the two dip switches without using external devices. In complex systems and for special programming needs, the device can be programmed with adapter Ref. 1072/60 to be inserted in the specific dedicated minidin connector. The programming adapter must be connected to the programming keyboard Ref. 1032/65.
The system must be powered for programming.

## SIMPLIFIED PROGRAMMING

The door unit and the door phones can be programmed without externa devices in 2nd edition systems consisting of main calling stations only (up to three). The following parameters can be programmed in this case:

- Main station number: with dip-switch (1, 2, 3).
- Lock activation time: with LED button (1-30s).
- Door phone programming with LED button (predetermined user codes).


## STATION NUMBER (ID)

The two dip-switches determine the main station number as shown in the following table:

| Dip-Switch po | Main station number |
| :---: | :---: |
|  | Not defined (for programming with an external keyboard) |
| $\square_{1} \square_{2}^{\uparrow}$ | Station 1 |
|  | Station 2 |
|  | Station 3 |

## ELECTRICAL LOCK TIME

Press the programming button and wait for the respective LED to come on.
Beeps will be repeatedly generated if there are other stations with the same ID. Press the button again to quit the operation, correct the mistake with the dip-switches and repeat the operation. Hold the "hall" button pressed for the time to be programmed (up to 30 s). The door unit will acquire the value and a confirmation beep will be heard. Press the programming button to return to normal operation.


The name tag light LEDs will go out when then electrical lock is operated.

## DOOR PHONE PROGRAMMING

The door unit is programmed by default at the factory.
Consequently, the code-button association phase can be skipped in systems without secondary units. In this case, go to the door phone programming procedure directly. The procedure consists of two steps:
A. Door phone booking (to be made on a calling station).
B. Door phone programming.

A: Door phone booking (to be made on a calling station)
Press the programming button and wait for the respective LED to come on. Press the user buttons to be associated with the
door phones once. The booking sequence according to which the buttons are pressed must be the same as the order in which the operator will go to the apartments.
DO NOT press the switchboard call button and the staircase light button (P1).

B: Door phone programming

1. Wait for 30 s until the LED starts blinking.
2. Go to the first booked user, hold the button pressed and lift the door phone handset. Two confirmation beeps will be heard and the LED will flash to indicate that it has been programmed.
3. Go to the other booked users and repeat the operations.

Refer to the supplied sheet to remember the code/button association sequence.


IMPORTANT: The LED will start blinking if the buttons are not booked and no operation is carried out for 30 seconds during the programming procedure. In this case, press the programming button to quit programming. If required, press it again to resume programming.

## ASSOCIATING $2 / 3$ DOOR PHONES IN PARALLEL IN 2ND EDITION SYSTEMS USING THE SIMPLIFIED PROGRAMMING PROCEDURE

To install two or three door phones in one apartment and make them both ring when a call is received, press the button related to the user twice or three times with the door phones in parallel when booking the door phones.
When you reach the apartment where the parallel door phones are installed according to the programming sequence, repeat the programming sequence on both door phones.

## COMPLETE PROGRAMMING WITH EXTERNAL DEVICE

Insertion of the programming device is confirmed by two beeps and by the led lighting.
Arrange the dip switches in the position shown in the following figure while programming with external device:


All data will be lost if the dip switches are moved also after ending the programming procedure.
Insertion of the programming device is confirmed by two beeps and by the led lighting.
Parameters can be programmed or reprogrammed in any order until the keyboard is extracted. Two beeps will be heard to confirm data programming. A KO signal (two beeps, the second of which at a lower frequency) will be heard if the programming is not valid.
Repetitive beeps will be heard in programming if other modules with the same ID are present.
Press the button $\bar{\Lambda}$ to silence the signal.
You are advised to program the data in the following order for the sake of simplicity.

## SYSTEM TYPE

The digitiser can be configured as 1st edition or 2nd edition. The digitiser must be programmed as 1 st edition if there is even only one 1st edition device in the system (when replacing parts in old systems). The device must be programmed as 2nd edition when all the devices in the system are 2nd edition.

Letter " M " identifies the type of system:
press M1 $\downarrow$ to program 1st edition
press M2 $\downarrow$ to program 2nd edition
The device will repeatedly beep if there are other modules with the same ID. Press the button $\Lambda$ to silence the signal.
The two dip-switches must not be in the ON position to program this parameter successfully.

## STATION TYPE

The digitiser can be configured as a main station or as a secondary station. A secondary digitiser can be used to send calls to internal stations in the riser but cannot be used to call the switchboard. In the case of 1st edition systems, the digitiser will be automatically configured as a main station and should not be changed.
Letter "I" identifies the type of station:
press $10 d$ to program the main station
press $11 \downarrow$ to program the secondary station
The device will repeatedly beep if there are other modules with the same ID. Press the button $\Lambda$ to silence the signal.
The two dip-switches must not be in the ON position to program this parameter successfully.

## CODE FORMAT

The digitiser can be used to call users with numeric codes (00019999), alphanumeric codes with alphabetic prefix (x000-x999) and alphanumeric codes with alphabetic suffix (000x-999x). Letters from A to $J$ can be used.
Letter " $F$ " identifies the type of programmable code:
numeric code
code with alphabetic prefix: F2
code with alphabetic suffix: F3
1st edition system: this programming is not required.

## STATION NUMBER (ID)

A number from 1 to 12 is assigned to each main calling station. A number from 0 to 9 is assigned to each secondary station.
The secondary number is in the range from $A$ to $J$ in systems with alphabetic prefix.
Letter " N " identifies the station number:
x station number: $\quad \mathrm{Nx} \mathrm{ل}$
A to $J$ programmed on a secondary station will automatically be reprogrammed as a prefix code format. ID from 0 to 9 on a secondary station will automatically be reprogrammed as a numeric code format.
The two dip-switches must not be in the ON position to program this parameter successfully.

1st edition system: the station number must be in the range from 1 to 12 (there are not secondary stations in the system). Assign F as station number to use the clone function.

## OFF-HOOK WAITING TIME

The off-hook waiting time is the maximum time of a call in which the user can answer the door phone.
All other calling stations will be engaged during this time. All devices in the system must have the same off-hook waiting time.
Letter "G" identities the off-hook waiting time:
10s waiting time:
20s waiting time:
30s waiting time:
G1

40s waiting time:
G3
G4

## MINIMUM CONVERSATION TIME (BUSY)

When a user is called and answers the door phone, all other call stations will be busy for the minimum programmed conversation time. A communication that has just started cannot be interrupted. All devices in the system must have the same minimum conversation time (busy time).
Letter "O" identities the off-hook waiting time:
10s busy:
01 -
20s busy:
O2
30s busy:
O3 ل
40s busy: $\quad 04$

## DOOR LOCK ACTIVATION TIME

The relay controlling the door lock can be managed in pulse mode (approximately 600 ms ) or stabile mode (from 1 to 30 s ).
Letter "D" identities the lock activation time:
door lock pulse:
DOO لـ
door lock xy seconds:
Dxy ل

The name tag light LEDs will go out when then electrical lock is operated.

## CODE BUTTON ASSOCIATION

This is the step in which user codes to be programmed are associated to each button connected to the digitiser.
The call code sequence is:
Cxyzw
Pnm ل

Where xyzw is the user code and $n m$ is the calling station button number.

The user code xyzw can have the following values

- 0001-9999: for numeric code formats
- x000-x999: for alphabetic prefix code formats (x from A to J)
- 000x-999x: for alphabetic suffix code formats (x from A to J)
- 0000: for direct calls to switchboard in day mode.
- LLLL: for "staircase lights" function.

The button number nm depends on the position of the terminal to which it is connected.

Once a code is programmed, press button $\downarrow$ to automatically program call code $x y z w+1$ on button $n m+1$. For example, the calling sequence C1000P01 $ل \downarrow$ will program code 1000 on button 01, code 1001 button 02 and code 1002 on button 03.

1st edition system: this programming is not required.

## PROGRAMMING DOOR PHONES IN 2ND EDITION SYSTEMS USING THE PROGRAMMING ADAPTER

The door phone programming sequence consists of two steps:
A. Door phone booking (to be made on a calling station).
B. Door phone programming (to be made in the apartments).

A: Door phone booking

1. Insert adapter Ref. $1072 / 60$ in the specific minidin connector.
2. Press the user buttons to be associated with the door phones once. The booking sequence according to which the buttons are pressed must be the same as the order in which the operator will go to the apartments. DO NOT press the switchboard call button or the "staircase lights" function.
3. A beep will be heard after 30 seconds from last pressing a user button (end of booking).
4. Leave the adapter Ref. 1072/60 in the digitiser and go to the apartments to program the door phones.

B: Door phone programming

1. Go to the first booked user, hold the button pressed and lift the door phone handset. Two confirmation beeps will be heard and the LED will flash to indicate that it has been programmed.
2. Go to the other booked users and repeat the operations.

Refer to the supplied sheet to remember the code/button association sequence.


## ASSOCIATING 2/3 DOOR PHONES IN PARALLEL IN 2NDEDITIONSYSTEMSUSING THEPROGRAMMING ADAPTER

To install two or three door phones in one apartment and make them both ring when a call is received, press the button related to the user twice or three times with the door phones in parallel when booking the door phones.
When you reach the apartment where the parallel door phones are installed according to the programming sequence, repeat the programming sequence on both door phones.

## ADDING NEW USERS IN 2ND EDITION SYSTEMS USING THE PROGRAMMING ADAPTER

Insert the programming adapter in the digitiser connector and program the user code of the button which will call the unit. Press this button to book programming and go to the user to program the door phone.

## PROGRAMMING DOOR PHONES IN 1ST EDITION SYSTEMS USING THE PROGRAMMING ADAPTER

The door phone programming sequence consists of two steps:
A. Door phone booking (to be made on a calling station).
B. Door phone programming (to be made in the apartments).

A: Door phone booking

1. Insert adapter Ref. $1072 / 60$ in the specific minidin connector.
2. Press the user buttons to be associated with the door phones once. The booking sequence according to which the buttons are pressed must be the same as the order in which the operator will go to the apartments.
3. A beep will be heard after 30 seconds from last pressing a user button (end of booking).
4. Leave the adapter Ref. 1072/60 in the digitiser and go to the apartments to program the door phones.

B: Door phone programming

1. Go to the first booked user, hold the button pressed and lift the door phone handset. Two confirmation beeps will be heard and the LED will flash to indicate that it has been programmed.
2. Go to the other booked users and repeat the operations.

Refer to the supplied sheet to remember the code/button association sequence.


The entire operation (booking and programming) must be repeated for each digitiser in the system, unless the "Clone" function (see below) is used.

## ASSOCIATING 2 DOOR PHONES IN PARALLEL IN 1ST EDITION SYSTEMS USING THE PROGRAMMING ADAPTER

To install two door phones in one apartment and make them both ring when a call is received, press the button related to the user twice with the door phones in parallel when booking the door phones.
When you reach the apartment where the parallel door phones are installed according to the programming sequence, repeat the programming sequence on both door phones.

## ADDING NEW USERS IN 1ST EDITION SYSTEMS USING THE PROGRAMMING ADAPTER

Insert the programming adapter in the specific digitiser connector. Press this button to book programming and go to the user to program the door phone.
The entire operation (booking and programming) must be repeated for each digitiser in the system, unless the "Clone" function (see below) is used.

Using the "clone" function with the programming adapter
A single association between calling stations and respective door phones can be made in 1st edition systems without switchboard and without door open signal function.
The remaining calling stations must be clones of the first station (master) providing the wiring between push-button panel buttons, calling station terminals and expansion modules in the "Master" station are repeated exactly. To enable this function:

- Define the master position as address "1"; (the position on which to make the association).
- Define all other stations as address "F".


## PROGRAMMING OVERVIEW DIAGRAMS FOR DOOR UNITS WITH DIGITISER

This guide provides additional help for programming $2^{\text {nd }}$ edition Bibus digitiser door units.
The following programming methods are recommended according to the complexity of the system and the required functions:
A. Systems with up to 3 main calling stations (without secondary systems or concierge switchboard):

1. Without staircase light function on button P1 (see diagram A1 page 5).
2. With staircase light function on button P1 (see diagram A2 page 6).
B. Systems with more than 3 main calling stations or main and secondary calling stations (see diagram B page 7).

Diagram A1
Programming procedure for systems with up to 3 main calling stations (no secondary stations or concierge switchboard) without stair lights function on button P1.

(*) All data will be lost if the dip switches are moved also after ending the programming procedure.

Diagram A2
Programming procedure for systems with up to 3 main calling stations (no secondary stations or concierge switchboard) with stair lights function on button P1.

${ }^{(*)}$ All data will be lost if the dip switches are moved also after ending the programming procedure.
$\left(^{* *}\right)$ If you make a mistake, quit programming, hold the programming button pressed for longer than 3 seconds. The door unit default setting will appear.

PROGRAMMING DEI POSTI ESTERNI CON DIGITALIZZATORE
PROGRAMMING OVERVIEW DIAGRAMS FOR DOOR UNITS WITH DIGITISER

Diagram B
Programming procedure for systems with more than 3 main calling stations or with main and secondary calling stations.

(*) All data will be lost if the dip switches are moved also after ending the programming procedure.

## CALLING MODULE PROGRAMMING PROCEDURE

The module can be programmed in three ways when the system is powered:
1 Via external keyboard ref. 1032/65 (recommended method).
2 Via local numeric keypad without opening the frame. The programming password is required for this operation.
3 Via PC connection.
Repetitive beeps and a message on the display in programming will signal that other modules with the same ID are present. Change the station number (ID) in this case.

## PROGRAMMING VIA Ref. 1032/65 KEYBOARD

Programming mode is entered automatically by connecting the external keyboard to the calling module.
Programming mode is quitted by disconnecting the external keyboard in any menu. All previously entered data will remain valid.
See "PROGRAMMING PARAMETERS".

## PROGRAMMING VIA LOCAL KEYPAD

Programming mode can be accessed in two ways.

- The configuration access password is known (the default password is "9999"): enter "00" followed by the 4-digit password and press "4".
The following message will appear if the password is wrong:


Password entry will be jammed for a time which increases with the number of failed attempts after the third attempt.

- The password is not known: open the frame and press the programming button on the back.
The red programming button on the back of the unit can be pressed in any programming menu. The data entered to this time will be valid. Press $\mathbf{X}$ for three seconds to go back to the previous menu. Press $\mathbf{X}$ for three seconds in the main menu to quit programming. Normal operation is automatically restored if no buttons are pressed for over three minutes.


## PROGRAMMING PARAMETERS

Refer to the local keypad programming method for programming menu operative descriptions.
The following table shows the operative differences for programming via Ref. 1032/65 keyboard.

| Function | Programming <br> via local keypad | Programming <br> via external keyboard |
| :--- | :--- | :--- |
| Select menu | Buttons 个 and $\downarrow$ | Buttons $\leftarrow$ and $\rightarrow$ |
| OK (enter) | Button "气" | Button $\downarrow$ |
| Escape <br> (one menu up) | Button X <br> pressed for 3s | Button $\nwarrow$ |
| White space | Separate characters | Button SP |
| Backspace (for correction) | Separate characters | Button BS |
| Select special characters | Separate characters | Button / |
| Delete booking of <br> code to be associated | Button $\approx 0$ | Button BS |

The main menu will appear on the display when programming mode is accessed:


## Main Menu

Switchb. call


Use $\uparrow$ and $\downarrow$ buttons to scroll the menus. Select the required menu and press "
4 The module will check for other devices programmed with the same number (ID) in the system when accessing programming mode and during programming. The following error message will appear if other modules with the same ID are fitted (which will certainly be the case of a system with more than one call station):

## EXISTING CALL MODULE ${ }^{\circ}$.

## EDITION

The module can be configured as a 1st edition or 2nd edition device． The module must be programmed as 1st edition if there is even only one 1st edition device in the system（when replacing parts in old systems）．The device must be programmed as 2 nd edition when all the devices in the system are 2nd edition．
The following message will appear on the display：

| Edition：II ED <br> $<$ E ED $><$ II ED $>$ | （2nd <br> edition <br> only） |
| :---: | :--- |

Use $\boldsymbol{\top}$ and $\downarrow$ buttons to select and＂气＂button to confirm．
The system will automatically go back to the main menu after a confirmation tone．

## LANGUAGE

The following message will appear on the display：

| $==$ | Language |
| :--- | ---: | | $==$ |
| ---: |
| Italiano |$\quad$|  |
| :--- |

Use $\boldsymbol{\uparrow}$ and $\downarrow$ buttons to select and＂थै＂button to confirm．
The system will automatically go back to the main menu after a confirmation tone．

## TYPE OF STATION

The module can be configured as a main station or as a secondary station．A secondary module can be used to send calls to internal stations in the riser but cannot be used to call the switchboard．This programming step will not appear in 1st edition systems．
The following message will appear on the display：

$$
\begin{aligned}
& \text { C. MOD. TYPE: } \\
& \text { <MA. }>\text { <SEC> }
\end{aligned}
$$

Use $\boldsymbol{\uparrow}$ and $\boldsymbol{\downarrow}$ buttons to select and＂ $\boldsymbol{\sim}$＂button to confirm．
The system will automatically go back to the main menu after a confirmation tone．

## STATION NUMBER（ID）

A number from 1 to 12 is assigned to each main calling station． A number from 0 to 9 is assigned to each secondary station．The secondary number is in the range from $A$ to $J$ in systems with alphabetic prefix．
A to J programmed on a secondary station will automatically be reprogrammed as a prefix code format．ID from 0 to 9 on a secondary station will automatically be reprogrammed as a numeric code format．

$$
=\begin{aligned}
& \text { Station } \mathrm{n}^{\circ} \\
& \text { Station: } 1
\end{aligned}=
$$

The following message will appear on the display：
Enter the station number and press＂乌＂to confirm．Press $\mathbf{X}$ to cancel the entry．
The system will automatically go back to the main menu after a confirmation tone．

1st edition systems：the station number must be in the range from 1 to 12 （there are not secondary stations in the system）．Assign 15 as station number to use the clone function．

## BUSY TIME

The busy time is split into two sub－menus．
The following message will appear on the display：


Use $\uparrow$ and $\downarrow$ buttons to select the submenu and＂थ＂button to confirm．

## PICK－UP TIME

The pick－up time is the maximum time from start of a call for the user to answer the door phone．All other calling stations will be engaged during this time．
All devices in the system must have the pick－up time．
The following message will appear on the display：

$$
\begin{aligned}
& \text { PICK-UP TIME: 20s } \\
& <10><20><30><40>
\end{aligned}
$$

Use $\boldsymbol{\top}$ and $\downarrow$ buttons to select and＂仓＂button to confirm．
The system will automatically go back to the main menu after a confirmation tone．

## MINIMUM CONVERSATION TIME（BUSY）

When a user is called and answers the door phone，all other call stations will be busy for the minimum programmed conversation time． A communication that has just started cannot be interrupted．
All devices in the system must have the same minimum conversation time（busy time）．
The following message will appear on the display：

$$
\begin{aligned}
& \text { BUSY TIME: 20s } \\
& \quad<10><20><30><40>
\end{aligned}
$$

Use $\boldsymbol{\top}$ and $\sqrt{\boldsymbol{\downarrow}}$ buttons to select and＂仓̂＂button to confirm．
The system will automatically go back to the main menu after a confirmation tone．

## DOOR LOCK ACTIVATION TIME

The relay controlling the door lock can be managed in pulse mode （approximately 500 ms ）or stabile mode（from 1 to 30 s ）．
The following message will appear on the display：


Enter the number of seconds and press＂气̂＂to confirm．Press $\mathbf{X}$ to cancel the entry．
The system will automatically go back to the main menu after a confirmation tone．

## DOOR OPENER CODES

The eight generic door opener codes can be stored in sequence．

The following message will appear on the display：
Lock rel．codes
$1^{\circ}$ Code：

Enter the 4－digit code and press＂ 4 ＂to confirm．Press $\mathbf{X}$ to cancel the entry．The system automatically prepares to enter the second code after a confirmation tone．
The system will automatically return to the main menu at the end of programming．Alternatively，press $\mathbf{X}$ for three seconds to go back to the main menu．

## CODE TYPE

The module can be used to call users with numeric codes（0001－ 9999），alphanumeric codes with alphabetic prefix（x000－x999）and alphanumeric codes with alphabetic suffix（000x－999x）．Letters from A to $J$ can be used．
The following message will appear on the display：

| $=$ | Code Type | $=$ |
| :--- | :---: | :---: |
| Num． | 1.9999 | $\downarrow$ |


| $=$ | Code Type | $=$ |
| :--- | :--- | ---: |
| Pref． | x000．x999 | $\downarrow \uparrow$ |


| $=$ | Code Type | $=$ |
| :--- | :--- | :--- |
| Suff． | 000x．999x | $\uparrow$ |

Use $\uparrow$ and $\downarrow$ buttons to select the Code Type and＂$\stackrel{\text {＂button to }}{ }$ confirm．

## CODES／NAMES

The names and respective codes can be programmed in this menu． The following message will appear on the display：


Use $\boldsymbol{\top}$ and $\downarrow$ buttons to select the submenu and＂气＂button to confirm．

## ENTER DATA

The user codes and respective names and personal door opener codes can be programmed in this sub－menu．
The first free position in the 250 item table will appear（one item for each user）：

## Position： 1

Code：

Enter the numeric or alphanumeric code formed by a variable number of digits from 1 to 4 and press＂
Press $\mathbf{X}$ for longer than three seconds to go back to the previous menu．
The same code can be entered in two or three positions in an apartment where two or three door phones are connected in parallel（you are advised to use adjacent positions to simplify the association）．
The following will appear on the display after entering the code：
Code 1001
Name：

The name can be entered at a later time．In this case，press＂（̂）to enter the new code．Proceed as follows if the user name is known．Press $\boldsymbol{T}$ and $\downarrow$ on the calling module keypad to seek the required character． The cursor will shift right by one position to enter a new character after approximately one second if no other button is pressed．Press $\mathbf{X}$ to delete the last entered character．Use programming keyboard 1032／65 to considerably facilitate entry of names．
The same name can be assigned to different codes．
Enter the name and press＂ش̂＂to enter the respective door opener code．
The following message will appear on the display：

## Code Lock rel．

Enter the personal door opener code and press＂气＂）to confirm．The general code programmed during the＂Door opener code＂phase cannot be entered．Press＂＂＂without entering a code to skip assigning a door opener code to the user．

## EDIT DATA

The data related to the entered users can be edited in this sub－menu． The following search criteria can be applied：
－Search by position in table（1－250）．
－Search by name．
The following message will appear on the display：


Use the arrows to select the search criteria and press＂气̂＂to confirm．

## SEARCH BY POSITION

This sub－menu can be used either to edit the user code，name or door opener code in a certain position in the table or to delete the record． The following message will appear on the display：


Use the arrows to select the position and press＂ب̂＂to confirm．
At this point，you can：
－Delete the record by pressing $\mathbf{X}$（or bs button on keyboard 1032／65 to delete the code）；a confirmation window will appear before the record is deleted from the table．
－Change the user code：enter a new code and press＂$\stackrel{\sim}{\sim}$＂to confirm
then change the name.

- Change the name: after changing the user code, a form similar to the name enter form will appear. Edit the name and press "气" to confirm.
- Change the user door opener code: a form similar to that for entering door opener codes will appear after editing the name. Edit the code and press " $\mathrm{\sim}$ " to confirm the operation.


## SEARCH BY NAME

This sub-menu can be used to edit a name or door opener code associated to a record.
The following message will appear on the display:


Use the arrows to select the name and press "थि" to confirm.
At this point, you can:

- Change the name: edit the name and press " $\mathrm{\sim}$ " to confirm.
- Change the user door opener code: a form similar to that for entering door opener codes will appear after editing the name. Edit the code and press " $\%$ " to confirm the operation.


## CLEAR ALL

This sub-menu can be used to clear the name table with respective user codes and personal door opener code.
The following message will appear on the display:
Are you sure?
<YES> <NO>

Use the arrows to select the answer and press "气" to confirm.

## ASSOCIATION PROCEDURE

The door phone programming procedure consists of two steps:
A. Door phone booking procedure (to be made on a calling station)
B. Door phone programming procedure (to be made in the apartments).

A: Door phone booking procedure
Select the Association menu. The following message will appear on the display:


1 Scroll the record list with the scroll arrows.
Press "ش" to confirm the records to be added to the booking list (a $\mid \leqslant$ symbol will appear next to the position). To delete a record from the booking list, press disappear).
2 The door phones can be programmed in the same order after creating the booking list. Press $\mathbf{X}$. The following will appear on the display:


Proceed by programming the door phones.
B: Door phone programming procedure
1 Go to the first booked user, hold the button pressed and lift the door phone handset. Two confirmation beeps will be heard and
the LED will flash to indicate that it has been programmed.
2 Go to the other booked users and repeat the operations.
Refer to the supplied sheet to remember the code/button association sequence.


The entire operation (booking and programming) must be repeated for each module in the system in 1st edition systems, unless the "Clone" function (see below) is used. The door phone programming procedure does not need to be repeated on all calling systems in 2nd edition systems.

The module will quit programming mode for the following events:

- End of door phone programming.
- 10 minute time-out after the last operation.
- Pressing the red programming button.
- Pressing any module key and entering the programming password.

How to associate $2 / 3$ door phones in parallel in 2nd edition systems
To install two or three door phones in the same apartment and make them all ring when called, press the "(N" button corresponding to the user with parallel door phones twice or three times during the door phone booking procedure.
When you reach the apartment where the parallel door phones are installed according to the programming sequence, repeat the programming sequence on both door phones.

How to associate 2 door phones in parallel in 2nd edition systems To install two door phones in one apartment and make them both ring when a call is received, press " the door phones in parallel when booking the door phones.
When you reach the apartment where the parallel door phones are installed according to the programming sequence, repeat the programming sequence on both door phones.

Using the "clone" function in 1st edition systems
A single association between calling station codes and respective door phones can be made in systems without switchboard and without door open signal function.
The remaining call stations can be clones of the first station (the master station) and copy the codes associated to the single users.
To enable this function:

- Define the master station as address "1" (where to make the association).
- Define all other stations as address " 15 ".

Obviously, all names, user codes and door opener codes must be programmed in "clone" stations.

## EDIT PASSWORD

This menu can be used to edit the password for accessing module programming.
The following message will appear on the display:

## Password: <br> 9999 <br> New:

Enter the new 4-digit password and press "

## SWITCHBOARD CALL ENABLE

This menu is used to enable direct concierge switchboard calls simply

CALLING MODULE PROGRAMMING PROCEDURE
Urmet
PROGRAMMING VIA PC
D OMUS
by pressing "A". The function is only active when the switchboard is in day mode.
The following message will appear on the display:


Use the arrows to select and press " 4 " to confirm.

## PROGRAMMING VIA PC

The calling module can be programmed and configured rapidly by means of a PC connected to the serial port (2) of the calling module by means of a special wire Ref. 1072/57 (optional, not provided with the product).
The B-BUS 2nd edition PC program can be used for simple and fast module programming.
The B-BUS 2nd edition program can be downloaded free of charge from the Urmet Domus web site (http://www.urmetdomus.com).

Minimum PC requirements are:

- 486 processor or above
- Windows 95 or 98 operating system
- Use of a mouse is recommended.

The signals on the 9-pin female D-sub connector are:
Pin 1 n.c.
Pin 2 PC data RX
Pin 3 PC data TX
Pin 4 n.c.
Pin 5 Ground
Pin 6 n.c.
Pin 7 n.c.
Pin 8 n.c.
Pin 9 n.c.
Connect wire Ref. 1072/57 between module and PC serial port to carry out the following operations:

1) Upload data from PC (refer to the B-BUS 2nd edition program for additional information). The following will appear on the module.

## Data reception

 in course...The module will become operative again at the end of the operation.
2) Download data to PC: (refer to the B-BUS 2nd edition program for additional information). The following will appear on the module.


The module will become operative again at the end of the operation.

## ADDITIONAL INFORMATION

The following message will appear if the "Bus" is down:
NO CONNECTION

A door opener code can be entered in this situation.
The firmware version and the revision date will appear for approximately one second when the display is switched on, e.g.:

Bibus System
V1.0 10/10/01

## Download from www.urmetdomus.com Technical Manuals area.

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Some products may be described in the "New" section.

## SINTHESICALLINGMODULEWITHREPERTORY Ref. 1072/13



The Ref. 1072/13 calling module corresponds to 2 Sinthesi modules and is provided with back-lit 16x2 character display, built-in door unit and back-lit buttons. Flush-mounting boxes or cases with hood and respective module holders and accessories are required for installation (see "Installation" section).

The 2nd edition 1072/13 calling module with repertory can be used both in new installations and for retrofitting old 1st edition systems.
Systems are called "2nd edition" (and consequently offer BIBUS 2nd edition performance) when all devices in the system are 2nd edition devices and configured as such.

## PERFORMANCE

The calling module with repertory Ref. 1072/13 offers the following functions:

- Direct user call by entering numeric code.
- Direct user call by entering alphanumeric code by connecting optional alphabetic keyboard Ref. 1038/74
Codes can have letter prefixes or suffixes with letters A-J.
- User calls by selecting stored names (max. 250).
- Direct concierge switchboard call (day mode only) by pressing specific button "Â" only (where configured).
- Management of 250 names with respective 4 -digit door opener code.
- Management of additional 8 generic door opener codes with time bands using external clock.
- The module can be programmed by means of a keyboard, programming keyboard Ref. 1032/65 or PC.
- Direct lock management by capacitance discharge and hold current with programmable activation time from 1 to 30s.
- Programmable door phone pick-up time (10, 20, 30, 40s).
- Programmable minimum guaranteed conversation time (10, 20, 30, 40s).
- Maximum conversation time: 250s.
- Open door contact input.
- Hall button timed input.
- Mail key input.
- Acoustic "call placed" signal.
- Busy function signalled by message on display.
- Speaker and microphone volume adjustment trimmer.
- Display contrast adjustment.
- Optoisolated control signal management for video door phone systems.
- Multilingual message display without additional EEPROM: Italian, English, French, German, Spanish, Portuguese, Swedish, Norwegian, Finnish, Dutch, Danish, Czech, Slovak, Polish, Turkish and Russian.


## STRUCTURE

The call module with directory consists of the following parts:


1 Two-module Sinthesi front.
2 PC wire connector (CNS).
3 Adjustable call module microphone volume.
4 Adjustable call module speaker volume.
5 Programming button (for use only when password is not known).
6 Programming alphanumeric keyboard (Ref. 1032/65) connector (CNP).
7 Alphanumeric display, two-rows, 16-characters, back-lit.
8 Yellow back-lit name selection buttons.
9 Green back-lit number pad buttons with yellow back-lit function buttons: "Cancel", "Key" and "Call".
10 Additional alphanumeric keyboard (Ref. 1038/74) connector.
11 Extractable connection terminal boards (MP2, MV1, MS1).
12 Adjustable LCD contrast.
13 Extractable connection terminal board (MP1).
DESCRIPTION OF TERMINALS AND
CONNECTORS

| MP1 terminal board |  |
| :--- | :--- |
| ~0 | Power 12Vac |
| $\sim$ | Power 12Vac |

The module is programmed by default with a jumper between ground and the "SP" signal to simulate the door closed contact. Remove the jumper and connect the sensor between GND and SP when the open door contact is required.
Connect the electrical lock positive to terminal SE1 and the negative to terminal SE2 when polarised electrical locks are used.

IMPORTANT: Observe the instructions contained in section 1 for wiring and maximum distances.

## TECHNICAL SPECIFICATIONS

Power:
Stand-by consumption:
Maximum consumption:
$R$ signal:
Lock hold current:
Working temperature range:
Humidity:

12Vac nominal 300mAac max. 600mAac max. (*) Imax $=80 \mathrm{~mA}$ 190mA max.
$-10+50^{\circ} \mathrm{C}$
$90 \%$ RH at $30^{\circ} \mathrm{C}$
(*) With alphabetic keyboard 1038/74.

## DEFAULT SETTINGS

Refer to section 1A "Programming" in this manual for how to
program the device.
The default settings of the device are:
System type:
Station type:
Code format:
Station number:
Pick-up time:
Busy time:
Door opener time:

To restore default settings:

- Disconnect module power.
- Hold the red programming button pressed and power up the module.
- Hold the button pressed for approximately 10 seconds and wait for a tone.
- Release the button.


## OPERATION

## CALLS TO USERS

A user can be called by entering the respective code on the keypad. Obviously, the code must be known to do so.
The name can be sought in the integrated electronic directory if the code is not known.

## CALLS TO USERS BY SELECTING THE NAME

The following message will appear on the display:

| Select NAME |
| :---: |
| with $\uparrow$ or $\downarrow$ |

Press $\boldsymbol{\uparrow}$ and $\downarrow$ to scroll the names and the codes. Hold either button pressed to increase scrolling speed.
Select the name and press "
The apartment door phone will ring for approximately 3 seconds. Hold
" 0 " pressed to send up to three consecutive calls.
Name/code display example:

## URMET DOMUS 1001

The following prompt will appear on the display if "थ̂" is not pressed for longer than two seconds after selecting a name:


At this point, press " list.
The following will appear on the display when the button "~" is pressed:

## CALL IN COURSE

Press $\mathbf{X}$ to interrupt the call to the previously selected user.
The following message will appear on the display if the user lifts the handset:

> TALK
> PLEASE

Press $\mathbf{X}$ to end the conversation with the user.
The following message will appear if the user does not answer within the programmed pick-up time:

| User |
| :---: |
| does not reply |

## CALLS TO USERS BY SELECTING THE CODE

Select NAME
with $\uparrow$ or $\downarrow$

Dial the code of the user to be called (numeric or alphanumeric with optional keyboard). The following will appear on the display:

> CALL TO:
> $\mathrm{n}^{\circ} 1001$

Enter the code and press the "थ" to call the selected user.
The apartment door phone will ring for approximately 3 seconds. Hold " 0 " pressed to send up to three consecutive calls.


Press $\mathbf{X}$ to interrupt the call to the previously selected user.
The following message will appear on the display if the user picks up the handset:

## TALK PLEASE

Press $\mathbf{X}$ to end the conversation with the user.
The following message will appear if the user does not answer within the programmed pick-up time:

## User <br> does not reply

## DIRECT CALL TO CONCIERGE SWITCHBOARD

Press "थ̂" on a calling module installed in a system with concierge switchboard to call it directly. This is only possible when the concierge switchboard is in day mode, i.e. when the concierge service is operative and the function has been activated (see "Programming"). The following message will appear on the display:

> CALL TO: Switchboard

The following will appear on the display if " the concierge switchboard is in night mode or the function has not be activated (see "Programming").


## DOOR OPENER CODES

Press the $\curvearrowleft 0$ button before entering each door opener code. Symbol "*" will appear on the display when entering the code for each button.
The module will open the door if the code is valid. A warning will be output if the code is not valid.
The sequence is the same for "Generic" and "Personal" door opener codes: press $\approx 0$ followed by the door opener code. The following will appear on the display:


The lock will be operated and the following message will appear if the code is correct:

| Go in |
| :---: |
| Please |

## GENERIC DOOR OPENER CODES

The generic door opener codes can be used by residents and other authorised persons to release the lock.
The calling module is dimensioned to contain up to eight generic door opener codes for operating the electrical lock. The codes have four digits (no letter permitted).
The eight generic door opener codes must be validated according to the time of day. The codes will operate the door lock only if the contact of the clock external to the module is open. Otherwise, the eight generic codes cannot be used to open the lock.

## PERSONAL DOOR OPENER CODES

A door opener code can be associated to each name. Other 250 door opener codes can be thus programmed in addition to the generic codes. These 250 door opener codes are not concerned by the clock contact.

## BUSY FUNCTION

This function is only required in systems with more than one calling device. This function is used to ensure that a conversation lasts sufficiently long following a call. The following message indicates busy status:

## LINE BUSY <br> Please wait

The keyboard is disabled during this time.
Two cases can occur:

## BUSY TIME BEFORE THE CALL USER GOES ON-HOOK

This is the maximum time for the user to pick up the handset or open the door without loosing the call after the ring.

## BUSY TIME AFTER USER GOES ON-HOOK

This is the minimum guaranteed conversation time from when the handset is picked up.

## ADJUSTMENTS



## VOLUME ADJUSTMENT

Volumes are calibrated by default so not to require adjustments in most cases.
Use a screwdriver to adjust the trimmers if required.

## DISPLAY CONTRAST REGULATION

The display contrast is set at the factory and will not need to be adjusted in most installations.
Use a screwdriver to adjust the trimmers if required.

ADDITIONAL ALPHABETIC KEYBOARD Ref. 1038/74


The additional alphabetic keyboard Ref. 1038/74 can be used to enter letters for dialling call codes.
The device must be combined with a calling module Ref. 1072/13 to which it is connected by means of the specific connection wire. In any case, the device must be arranged UNDERNEATH (or by THE SIDE OF) the calling module.

## INSTALLATION

Calling module with repertory Ref. 1072/13 can be used alone or in combination with a camera unit and/or alphabet keyboard add-on Ref. 1038/74.
Examples of modular constructions using 2 or 3 module holder frames with respective flush-mounting boxes are shown below
The door unit module should be installed at a height of approximately $1.55 \div 1.60$ metres


## Important

The module should not be illuminated from behind to make the calling module display easier to read. Never direct the module towards strong sources of light (e.g. the sun, lampposts, light bulbs, flashes or glare).

## FLUSH-MOUNTED VERSION

- Fit the flush mounting box in line with the wall: it must not project.




## ACCESSORY INSTALLATION

## fLUSH-MOUNTED VERSION WITH WALL COVER FRAME

The wall cover frames are used to conceal possible irregularity of the wall surrounding the flush-mounting box. The available models and the dimensions are shown in "Technical product manual - door phone and video door phone systems" section "Sinthesi Panel".
Embed the flush mounting box in the wall, position the wall cover frame and fasten the module holder lower screw.
Frame fastening is completed by tightening the upper frame screw last.


## FLUSH-MOUNTED VERSION WITH RAIN HOOD

Rain hoods are used to protect the calling module from the weather The available models and the dimensions are shown in "Technical product manual - door phone and video door phone systems" section "Sinthesi Panels".
Embed the flush mounting box in the wall, position the waterproof hood and fasten the module holder lower head.
Hood fastening is completed by tightening the upper frame screw last.


## WALL-MOUNTED VERSION WITH CASE AND HOOD

The case and hood is provided with frame and module holder The available models and the dimensions are shown in "Technical product manual - door phone and video door phone systems" section "Sinthesi Panels".
Fasten the hood to the wall by means of three bolts.
Arrange the hole for passing the wires through the lower area of the casing and the head.

Fit the modules in the frame then position the panel.

accessory installation

## GATE SEMI-FLUSHED PANEL ACCESSORIES

Cases and hood for gate pillar installation are suitable for vertical installation on a gate pillar.
The available models and dimensions are shown in "Technical product manual door phone and video door phone systems" section "Sinthesi Panels".
Drill a hole dimensioned as shown on the provided template in the pillar and arrange the case on the pillar.


To fasten the case:
A. Push the screw to the bottom of the box with a screwdriver.
B. Push the screw outwards with a screwdriver.
C. Fasten the screw.

Fit the modules on the frame.


WARNING: Eliminate a crossbar with cutters to fit double modules.

 1145/55

To install the Sinthesi call module on metal pillars or walls, the Ref. 1145/55 kit must be purchased separately, proceeding as described below:

- Drill a hole dimensioned as shown in the drawing below:
 special screw.

- Fasten the modules to the frame, make the connections and tighten the push-button panel using the smaller block, the special screw and

- Fit the cover frame.

In the case of exposure to weather elements, it is advisable to seal the upper part with silicone.



## K-STE CALL MODULE

## Download from www.urmetdomus.com Technical Manuals area.

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K-STEEL CALLING MODULE WITH REPERTORY Ref. 1072/14


The Ref. 1072/14 calling module corresponds to 2 K-Steel modules and is provided with back-lit 16x2 character display, built-in door unit and back-lit buttons. Flush-mounting boxes or cases with hood and respective frame are required for installation (see "Installation" section).

The 2nd edition Ref. 1072/14 calling module with repertory can be used both in new installations and for retrofitting old 1st edition systems.
Sy Systems are called "2nd edition" (and consequently offer BIBUS 2nd edition performance) when all devices in the system are 2nd edition devices and configured as such.

## PERFORMANCE

The calling module with repertory Ref. 1072/14 offers the following functions:

- Direct user call by entering numeric code.
- Direct user call by entering alphanumeric code connecting optional alphabetic keyboard Ref. 1038/73. Codes can have letter prefixes or suffixes with letters A-J.
- User calls by selecting stored names (max. 250).
- Direct concierge switchboard call (day mode only) by pressing specific button "Â" only (where configured).
- Management of 250 names with respective 4-digit door opener code.
- Management of additional 8 generic door opener codes with time bands using external clock.
- The module can be programmed by means of a keyboard, programming keyboard Ref. 1032/65 or PC.
- Direct lock management by capacitance discharge and hold current with programmable activation time from 1 to 30s.
- Programmable door phone pick-up time (10, 20, 30, 40s).
- Programmable minimum guaranteed conversation time (10, 20, 30, 40s).
- Maximum conversation time: 250s.
- Open door contact input.
- Hall button timed input.
- Mail key input.
- Acoustic "call placed" signal.
- Busy function signalled by message on display.
- Speaker and microphone volume adjustment trimmer.
- Display contrast adjustment.
- Opto-isolated control signal management for video door phone systems.
- Multilingual message display without additional EEPROM: Italian, English, French, German, Spanish, Portuguese, Swedish, Norwegian, Finnish, Dutch, Danish, Czech, Slovak, Polish, Turkish and Russian.


## STRUCTURE

The calling module with directory consists of the following parts:


1 K-Steel 2 module front panel.
2 Alphanumeric display, two-rows, 16-characters, back-lit.
3 Yellow back-lit name selection buttons.
4 Green back-lit number pad buttons with yellow back-lit function buttons: "Cancel", "Key" and "Call".
5 Additional alphanumeric keyboard (1038/73) connector.
6 Extractable connection terminal boards (MP2, MV1, MS1).
7 Calling module speaker volume adjustment trimmer.
8 Calling module microphone volume adjustment trimmer.
9 Programming alphanumeric keyboard (1032/65) connector (CNP).
10 Programming button (for use only when password is not known).
11 LCD display contrast adjustment trimmer.
12 Extractable connection terminal board (MP1).
13 PC wire connector (CNS).

DOMUS

## DESCRIPTION CONNECTORS

| MP1 terminal board |  |
| :--- | :--- |
| $\sim 0$ | Power 12Vac |
| $\sim 12$ | Power 12Vac |
| +T | Back-up power positive |
| GND | Back-up power negative |
| SE1 | Electrical lock connection |
| SE2 | Electrical lock connection |
|  |  |
| MP2 terminal board |  |
| L1 | Bus line 1st wire |
| L2 | Bus line 2nd wire |
| GND | Reference electrical ground |
| PA | Hall door opener button input |
| SP | Open door sensor contact input |
|  |  |
| MV1 terminal board |  |
| SN | Video power unit on signal for video door phone systems |
| R | Video switching enable signal for video door phone |
| systems |  |
| R1 | Video power ground |
| MS1 terminal board |  |
| H | Door opener code time band contact input |
| P | Mail key input |
| GND | Reference electrical ground |
| +EP | Auxiliary device power |
| DT | Not used |
| CNA | Alphabetic keyboard connector 1038/73 |
| CNP | Programming keyboard connector 1032/65 |
| CNS | PC serial line connector |

CNS PC serial line connector
The module is programmed by default with a jumper between ground and the "SP" signal to simulate the door closed contact. Remove the jumper and connect the sensor between GND and SP when the open door contact is required.
Connect the electrical lock positive to terminal SE1 and the negative to terminal SE2 when polarised electrical locks are used.

IMPORTANT: Observe the instructions contained in section 1 for wiring and maximum distances.

## TECHNICAL SPECIFICATIONS

Power:
Stand-by consumption:
Maximum consumption:
R signal:
Lock hold current:
Working temperature range:
Humidity:

12Vac rated 300mAac max 600 mAac max. (*) Imax=80mA 190mA max.
$-10+50^{\circ} \mathrm{C}$
(*) With alphabetic keyboard 1038/73.

## DEFAULT SETTINGS

Refer to section 1A "Programming" in this manual for how to program the device.

The default settings of the device are:

- System type:
- Station type:

2nd Edition numeric (0001-9999)

- Code format:
- Pick up time 20s
- Pick-up time: 20s
- Busy time:
pulse

To restore default settings:

- Disconnect module power.
- Hold the red programming button pressed and power up the module.
- Hold the button pressed for approximately 10 seconds and wait for a tone.
- Release the button.


## OPERATION

## CALLS TO USERS

A user can be called by entering the user's code on the keypad. Obviously, the code must be known to do so. The name can be sought in the integrated electronic directory if the code is not known.

## CALLS TO USERS BY SELECTING THE NAME

The following message will appear on the display:

| Select NAME |
| :---: |
| with $\uparrow$ or $\downarrow$ |

Press $\boldsymbol{\uparrow}$ or $\downarrow$ to scroll the names and the codes. Hold either button pressed to increase scrolling speed.
Select the name and press "气" to call the selected user.
The apartment door phone will ring for approximately 3 seconds. Hold "~" pressed to send up to three consecutive calls.
Name/code display example:
URMET DOMUS 1001

The following prompt will appear on the display if " longer than two seconds after selecting a name:


At this point, press "N" to call or press $\boldsymbol{\uparrow}$ or to scroll the name list. The following will appear on the display when the button " is pressed:


Press $\mathbf{X}$ to interrupt the call to the previously selected user.
The following message will appear on the display if the user picks up the handset:


Press $\mathbf{X}$ to end the conversation with the user.
The following message will appear if the user does not answer within the programmed pick-up time:

User
does not reply

## CALLS TO USERS BY SELECTING THE CODE

## DOOR OPENER CODES

Press the $\approx 0$ button before entering each door opener code. Symbol "*" will appear on the display when entering the code for each button.
The module will open the door if the code is valid. A warning will be output if the code is not valid.
The sequence is the same for "Generic" and "Personal" door opener codes: press $\approx 0$ followed by the door opener code. The following will appear on the display:


The lock will be operated and the following message will appear if the code is correct:


## GENERIC DOOR OPENER CODES

The generic door opener codes can be used by residents and other authorised persons to release the lock.
The calling module is dimensioned to contain up to eight generic door opener codes for operating the electrical lock. The codes have four digits (no letter permitted).
The eight generic door opener codes must be validated according to the time of day. The codes will operate the door lock only if the contact of the clock external to the module is open. Otherwise, the eight generic codes cannot be used to open the lock.

## PERSONAL DOOR OPENER CODES

A door opener code can be associated to each name. Other 250 door opener codes can be thus programmed in addition to the generic codes. These 250 door opener codes are not concerned by the clock contact.

## BUSY FUNCTION

This function is only required in systems with more than one calling device. This function is used to ensure that a conversation lasts sufficiently long following a call. The following message indicates busy status:


The keyboard is disabled during this time.
Two cases can occur:

## BUSY TIME BEFORE THE CALL USER GOES ON-HOOK

This is the maximum time for the user to lift the handset or open the door without loosing the call after the ring.

## BUSY TIME AFTER USER GOES ON-HOOK

This is the minimum guaranteed conversation time from when the handset is picked up.

## ADJUSTMENTS

## VOLUME ADJUSTMENT

Volumes are calibrated by default so not to require adjustments in most cases.
Use a screwdriver to adjust the trimmers if required.

## DISPLAY CONTRAST REGULATION

The display contrast is set at the factory and will not need to be adjusted in most installations.
Use a screwdriver to adjust the trimmers if required.

## ADDITIONAL ALPHABETIC KEYBOARD Ref. 1038/73



The additional alphabetic keyboard Ref. 1038/73 can be used to entered letters for dialling call codes.
The device must be combined with a calling module Ref. 1072/14 to which it is connected by means of the specific connection wire. In any case, the device must be arranged UNDERNEATH (or by THE SIDE OF) the calling module.

## INSTALLATION

Calling module with repertory Ref. 1072/14 can be used alone or in combination with a camera unit and/or alphabet keyboard add-on Ref. 1038/73.
Examples of modular constructions using 2 or 3 module holder frames with respective flush-mounting boxes are shown below.
The door unit module should be installed at a height of approximately $1.55 \div 1.60$ metres.


## Important

The module should not be illuminated from behind to make the calling module display easier to read. Never direct the module towards strong sources of light (e.g. the sun, lampposts, light bulbs, flashes or glare).

## FLUSH-MOUNTED VERSION

The flush-mounting box and respective frame must be used for flushmounted installation.
The available models, dimensions and box and frame installation procedures are shown in Technical product manual - door phone and video door phone systems - section "Modular Vandal-Proof Panel KSteel".

1. Refer the protections from the hole to be used to pass the wires only from the flush-mounting box.


$\angle$The holes in the upper part must only be used for introducing the cables if overlapped to other boxes.
2. Flush the box and the required height considering the direction and the indications provided for video systems.
Warning: During installation, protect all parts which will be exposed to view from mortar, plaster and cement.
Never use abrasive detergents to clean units.
3. Fit the flush mounting box in line with the wall: it must not project.


5 The wall surface on which the front rests must be as smooth as possible (max. tolerance 1.5 mm ).
4. If the internal production has been removed from the box for any reason, insert it as shown in the figure. Fix it in the upper part not used for fixing the module holder frame.

\ IMPORTANT: the warranty conditions will be forfeited if the protection is either not installed or installed incorrectly.
5. For fitting, loosen the two tap screws and remove the crossbar from the embedding box frame. Fit the modules in the frame.

6. Fasten the module holder frame to the flush mounting boxes by means of the specific hinged attachment.

7. Fit the seal and close the frame.



The tool must only be used manually, and not fitted on electrical screwdrivers, to prevent damaging the screws and/or the tool.


WALL-MOUNTED VERSION WITH CASE AND HOOD
Cases and hoods protect the calling module from the weather and may be used for installation on walls without flush-mounted parts.

The case is provided with module holder frame.
The available models and the dimensions of cases and frames are shown in Technical product manual - door phone and video door phone systems section "Modular Vandal-proof panel K-Steel".


EXAMPLES OF MODULAR CONSTRUCTIONS

EXAMPLES OF MODULAR CONSTRUCTIONS

## K-STEEL CALLING MODULE WITH REPERTORY



Ref 1755/30A

(*) A colour camera Ref. 1755/45 can be fitted as an alternative.

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## SINTHESI PANEL WITH DOOR UNIT AND DIGITISER

## Download from www.urmetdomus.com Technical Manuals area.

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## LOUDSPEAKING UNIT WITH INTEGRATED DIGITALIZER - SINTHESI Ref. 1072/7



## PERFORMANCE

- Installable in Sinthesi frames.
- 18 user terminals which can be directly connected to buttons.
- Connector for 16 user expansion module Ref. 1038/17.
- Maximum four expansion modules (connected in series) for maximum 82 user buttons in each door unit.
- Possibility of assigning alphanumeric call button code with letter prefix or suffix A-J.
- The digitiser is programmed by means of an external programming device Ref. 1072/60 which in turn must be connected to a pushbutton panel Ref. 1032/65.
- Simplified programming with LED button and two dip-switches in simple systems.
- Possibility of programming one or more buttons for controlling a special decoder ("staircase lights" function).
- Electrical relay load control actuator with NC-C-NO outputs and programmable activation time, from 1 to 30 s
- Programmable door phone hang-up waiting time (10, 20, 30, 40s).
- Programmable minimum guaranteed conversation time (10, 20, 30, 40s).
- Maximum conversation time: 250s.
- Open door contact input.
- Hall button timed input.
- Acoustic call sent signal
- Busy function signalled by busy tone when a button is pressed to busy time-out.
- Two trimmers for adjusting speaker and microphone volume.
- Opto-isolated control signal management for video door phone systems.
- Possibility of programming a pre-set button for direct switchboard calls (day state only).


## STRUCTURE

The digitiser consists of the following parts:

## FRONT SIDE



Front side

1) Speaker volume adjustment trimmer.
2) Microphone volume adjustment trimmer.
3) Simplified programming LED and button.
4) Programming connector for adapter Ref. 1072/60 and keyboard Ref. 1032/65.
5) Simplified programming dip-switch.

Rear side
6) Terminal board for connecting buttons $\mathrm{P} 1 \div \mathrm{P} 8$.
7) Terminal board for connecting buttons P9 $\div$ P18.
8) Terminal board for system connection.
9) Connector (EXP) for 16 user expansion modules Ref. 1038/17.

## DESCRIPTION OF TERMINAL BOARDS

## System terminal boards

| System |  |
| :--- | :--- |
| $\sim 12$ | Relay power for electrical lock |
| $\sim 0$ | Relay power for electrical lock |

## TECHNICAL SPECIFICATIONS

| Stand-by consumption: | 6.5 mA max. |
| :--- | ---: |
| Active voice consumption: | 40 mA max. |
| Relay contact: | 30 V 2 A |
| R, SN signal: | Imax $=80 \mathrm{~mA}$ |
| Working temperature range: | $-10+50^{\circ} \mathrm{C}$ |
| Humidity: | $90 \% \mathrm{RH} @ 30^{\circ} \mathrm{C}$ |

Stand-by consumption:
Relay contact:
Working temperature range
Humidity:

REAR SIDE


LOUDSPEAKING UNIT WITH INTEGRATED DIGITALIZER - SINTHESI Ref. 1072/7

## DEFAULT PROGRAMMING

$\checkmark$Refer to section 1A "Programming" in this manual for how to program the device.

The device default settings are:

- System type:
- Station type: 2nd edition
- Code format: numeric (0001-9990
- Station number: - 1
- Off-hook waiting time: 40s
- Busy time: 20s
- Door opener time: 3s
- Code button association

| LLLL | P1 |
| :--- | :--- |
| 1002 | P2 |
| $\vdots$ | $\cdot$ |
| $\vdots$ | $\cdot$ |
| 1082 | P82 |

To restore default settings, insert the programming device and hold bs (back-space) button pressed for longer than three seconds until you hear a beep. Alternatively, without the programming device, hold the programming button pressed for longer than three seconds until you hear a beep.

## CONNECTIONS

IMPORTANT: Observe the instructions contained in section 1 for wiring and maximum distances.

Up to 18 user buttons can be connected directly to the door unit. When a higher number of user is required, a Ref. 1038/17 expansion module can be connected. This allows the addition of 16 user buttons to the 18 basic buttons. Up to four expansion units can be connected to each door unit, for a total of 82 user buttons.
Position two call units side by side if a station with more than 82 users is required. The door unit is programmed by default with a jumper between the earth and the "SP" signal to simulate the door closed contact. Remove the jumper and connect the sensor between GND and SP when the open door contact is required.


## FUNCTION

## CALLS

Up to 82 users can be called by pressing the corresponding buttons on the panels associated to the door unit with digitiser Ref. 1072/7. Additionally, a concierge switchboard Ref. 1072/42 can be called, simply by pressing a call button associated to code 0000 during programming (day mode only). A courtesy ring, similar to that generated on a called door phone, will be heard.

## STAIRCASE LIGHTS FUNCTION

Press the button programmed for this function. A command will be sent to the special decoder and a confirmation beep will be heard. The staircase light function is assigned to button P1 by default.
If the staircase lights button is pressed during the programming procedure, it will be reprogrammed with the user code corresponding to the position.

## BUSY FUNCTION

This function is only required in systems with more than one calling device. This function is used to ensure that a conversation lasts sufficiently long following a call. An intermittent beep will be heard on the speaker for the time before the busy time-out and the panel will be disabled.

Two cases can occur:
BUSY TIME BEFORE THE CALL USER GOES ON-HOOK
This is the maximum time for the user to lift the handset or open the door without loosing the call after the ring.
buSY time after user goes on-hook
This is the minimum guaranteed conversation time from when the handset is lifted.

## ADJUSTMENTS

## VOLUME REGULATION

Volume levels are calibrated by default so not to require adjustments in most cases.
Use a screwdriver to adjust the trimmers if required.

## TROUBLESHOOTING

Establishing the cause of problems related to a door unit with digitiser Ref. 1072/7 is simple (e.g. no courtesy tone after a call button is pressed):

- Short-circuit on push-button panel side (L1, L2).
- Neither bus couplers are programmed as masters.


## 16-PUSHBUTTON EXPANSION MODULE

 Ref. 1038/17

The extension module can be used to add 16 user buttons to the door unit.
Arrange the device in the push-button panels, as shown in the following figure.
Connect the user buttons and connect the device to the door unit and to other extensions by means of the specific wire. Respect the connections and the holes in the flush mounting boxes.


Fasten on the bottom of the flush-mounting box.
IMPORTANT: Fasten the expansion module near button, blank or repertory modules.

## DESCRIPTION OF TERMINALS

C Electrical reference earth for buttons 1-8
P1...P8 User buttons
C Electrical reference earth for buttons 9-16
P9..P16 User buttons

## TECHNICAL SPECIFICATIONS

Consumption:
Current in user button:
Working temperature range:
Humidity:

1mA Max ~1mA $+0^{\circ} \mathrm{C} \div+50^{\circ} \mathrm{C}$ $90 \%$ RH at $30^{\circ} \mathrm{C}$

ADAPTER DEVICE FOR TV CAMERA Ref. 1742/13A


The device is used in Bibus 2nd edition VOP video door phone systems.
The adapter must be combined to the following Sinthesi cameras:

- Ref. 1745/70 for black and white systems.
- Ref. 1745/40 for colour systems.

The adapter transforms the composite video signal from the camera into two differential video signals ( $A$ and $B$ ).

## Adapter installation

1. Insert the adapter device to the side of the TV camera unit and secure it with the screw provided (Fig. 1).
2. Remove connector A from the TV camera module (Fig. 2),
3. Insert connector $A$ in the coupling of the device and connector $B$ in the coupling of the TV camera (Fig. 3).
4. Position the conductors inside the groove of the device.


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## PRODUCT LIST

## Push button and repertory

- With 1 key

Ref. 1145/11

- With 2 keys

Ref. 1145/12

- With 3 keys

Ref. 1145/13

- With 4 keys

Ref. 1145/14

- With 4 double keys

Ref. 1145/18

- Repertory module

Ref. 1145/50

- Blank module

Ref. 1145/59

## Embedding box

- For 2 modules

Ref. 1145/52

- For 3 modules

Ref. 1145/53

- For 4 modules

Ref. 1145/54

## Frames and module holders

- For 2 modules

Ref. 1145/62

- For 3 modules

Ref. 1145/63

- For 4 modules

Ref. 1145/64

## Wall cover frame

- For 2 modules

Ref. 1145/712

- For 3 modules

Ref. 1145/713

- For 4 modules
- For 4 modules (2 frames for 2 modules)

Ref. 1145/714

- For 6 modules (2 frames for 3 modules)

Ref. 1145/724

- For 8 modules (2 frames for 4 modules)

Ref. 1145/726

- For 9 modules ( 3 frames for 3 modules)

Ref. 1145/728

- For 12 modules (3 frames for 4 modules)

Ref. 1145/739

## Rain hood

- For 2 modules

Ref. 1145/612

- For 3 modules

Ref. 1145/613

- For 4 modules

Ref. 1145/614

- For 4 modules (2 frames for 2 modules)

Ref. 1145/624

- For 6 modules (2 frames for 3 modules)

Ref. 1145/626

- For 8 modules (2 frames for 4 modules)

Ref. 1145/628

- For 9 modules (3 frames for 3 modules)

Ref. 1145/639

- For 12 modules (3 frames for 4 modules)

Ref. 1145/632

## Case and hood

- For 2 modules

Ref. 1145/312

- For 3 modules

Ref. 1145/313

- For 4 modules

Ref. 1145/314

- For 4 modules (2 frames for 2 modules)

Ref. 1145/324

- For 6 modules (2 frames for 3 modules)

Ref. 1145/326

- For 8 modules (2 frames for 4 modules)

Ref. 1145/328

- For 9 modules (3 frames for 3 modules)

Ref. 1145/339

- For 12 modules (3 frames for 4 modules)

Ref. 1145/332
Case and hood for semi-flushed gate installation

- For 2 modules

Ref. 1145/342
Ref. 1145/343

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## SINTHESI PANELS

## INSTALLATION

You are advised to install the modules at the heights shown below according to the required system configuration.


In any case, consider the height shown in the figure for fastening the camera for correct installation of complex arrangement with several modules. The height refers to the door unit in door phone systems. The procedure for horizontal panel development is the same at that shown below for vertical development.
Obviously, in this case, the boxes, module holders, modules and frames must be turned by $90^{\circ}$.

Arrange the hole (on the bottom or on the sides) for letting through the connection wires before closing the flush-mounting box (single or joined to other boxes).


- Fit the flush mounting box in line with the wall: it must not project.

- Fit the module holder frame

- Fit the modules in the frame.


- Turn the frame round and connect wires.

- Adjust correct perpendicularity of the panel.
- Close the frame and fasten the screws $\mathbf{A}$.
- Fit the name tags.

- Position the panel on the frame.
- Fasten the screws B on screws $\mathbf{A}$.





SINTHESI PANEL WITH DOOR UNIT AND DIGITISER



SINTHESI PANELS - VIDEO DOOR PHONE SYSTEMS


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1

5



2


3


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## K-STEEL PANEL WITH DOOR UNIT AND DIGITISER

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## LOUDSPEAKING UNIT WITH INTEGRATED DIGITALIZER - K-STEEL Ref. 1072/5



## PERFORMANCE

- Installable in K-Steel frames.
- 18 user terminals which can be directly connected to buttons (two of which pre-wired).
- Connector for 16 user expansion module Ref. 1038/17.
- Maximum four expansion modules (connected in series) for maximum 82 user buttons in each door unit.
- Possibility of assigning alphanumeric call button code with letter prefix or suffix A-J.
- The digitiser is programmed by means of an external programming device Ref. 1072/60 which in turn must be connected to a pushbutton panel Ref. 1032/65.
- Simplified programming with LED button and two dip-switches in simple systems.
- Possibility of programming one or more buttons for controlling a special decoder ("staircase lights" function).
- Electrical relay load control actuator with NC-C-NO outputs and programmable activation time, from 1 to 30s.
- Programmable door phone hang-up waiting time (10, 20, 30, 40s).
- Programmable minimum guaranteed conversation time (10, 20, 30, 40s).
- Maximum conversation time: 250s.
- Open door contact input.
- Hall button timed input.
- Acoustic call sent signal
- Busy function signalled by busy tone when a button is pressed to busy time-out.
- Two trimmers for adjusting speaker and microphone volume.
- Opto-isolated control signal management for video door phone systems.
- Possibility of programming a pre-set button for direct switchboard calls (day state only).


## STRUCTURE

The digitiser consists of the following parts:


1) Programming connector (PROG) for adapter Ref. 1072/60.
2) Terminals for connecting two buttons provided (1-2-C) and respective back-lighting (0~,12~).
3) Speaker volume adjustment trimmer.
4) Terminal board for connecting buttons $\mathrm{P} 11 \div \mathrm{P} 18$.
5) Simplified programming dip-switch (ID).
6) Connector (EXP) for 16 user expansion modules Ref. 1038/17.
7) Terminal board MTT3 connecting electrical switch.
8) Terminal board MTT4 for system connections.
9) Terminal board MTT5 for system connections.
10) Terminal board for connecting buttons P1 $\div$ P10.
11) Microphone volume adjustment trimmer.
12) Simplified programming LED button.

## DESCRIPTION OF TERMINAL BOARDS

## System terminal boards

SN Video power unit on signal for video systems.
R Video switching enable signal for video systems.
R1 Video power earth.
L1 Bus Line 1st connector.
L2 Bus Line 2nd connector
SP Open door sensor contact input (closed with closed door).
PA Hall door opener button input (normally open).
GND Reference earth PA, SP.
NO Electrical lock relay normally opened contact.
NC Electrical lock relay normally closed contact.
C Relay exchange electrical lock common contact.
~12 Relay power for electrical lock.
~0 Relay power for electrical lock.

## Button terminal boards

P1 $\div$ P18 User button inputs
C Button reference earth.
0~ Button and name tag lightning LED power.
12~ Button and name tag lightning LED power.
C Call button common.
1 First call button.
2 Second call button.

## TECHNICAL SPECIFICATIONS

- Stand-by consumption:
6.5mA max.
- Active voice consumption: 40mA max. 30V 2A
- R, SN contact:

Imax=80mA

- Working temperature range: $-10+50^{\circ} \mathrm{C}$
- Humidity: $90 \%$ RH at $30^{\circ} \mathrm{C}$


## DEFAULT PROGRAMMING

Refer to section 1A "Programming" in this manual for how to program the device.

The device default settings are:

- System type:
- Station type: 2nd edition numeric (0001-9999)
- Code format:
- Station number:
- Off-hook waiting time: 1
40 s 20s
- Door opener time: 3s
- Code button association

| LLLL | P1 |
| :--- | :--- |
| 1002 | P2 |
| $\cdot$ | $\cdot$ |
| $\cdot$ | $\cdot$ |
| 1082 | P82 |

To restore default settings, insert the programming device and hold bs

LOUDSPEAKING UNIT WITH
INTEGRATED DIGITALIZER - K-STEEL Ref. 1072/5
CONNECTIONS - FUNCTION - ADJUSTMENTS
button pressed for longer than three seconds until you hear a beep. Alternatively, without the programming device, hold the programming button pressed for longer than three seconds until you hear a beep.

## CONNECTIONS

IMPORTANT: Observe the instructions contained in section 1 for wiring and maximum distances.

Up to 18 user buttons can be connected directly to the door unit. When a higher number of user is required, a Ref. 1038/17 expansion module can be connected. This allows the addition of 16 user buttons to the 18 basic buttons. Up to four expansion units can be connected to each door unit, for a total of 82 user buttons.
Position two call units side by side if a station with more than 82 users is required. The door unit is programmed by default with a jumper between the earth and the "SP" signal to simulate the door closed contact. Remove the jumper and connect the sensor between GND and SP when the open door contact is required.
Internal calling station circuits are power by bus voltage.

## FUNCTION

## CALLS

Up to 82 users can be called by pressing the corresponding buttons on the panels associated to the door unit with digitiser Ref. 1072/5. Additionally, a concierge switchboard Ref. 1072/42 can be called, simply by pressing a call button associated to code 0000 during programming (day mode only). A courtesy ring, similar to that generated on a called door phone, will be heard.

## STAIRCASE LIGHTS FUNCTION

Press the button programmed for this function. A command will be sent to the special decoder and a confirmation beep will be heard. The staircase light function is assigned to button P1 by default.
4 If the staircase lights button is pressed during the programming procedure, it will be reprogrammed with the user code corresponding to the position.

## BUSY FUNCTION

This function is only required in systems with more than one calling device. This function is used to ensure that a conversation lasts sufficiently long following a call. An intermittent beep will be heard on the speaker for the time before the busy time-out and the panel will be disabled.

Two cases can occur:

## BUSY TIME BEFORE THE CALL USER GOES ON-HOOK

This is the maximum time for the user to lift the handset or open the door without loosing the call after the ring.

BUSY TIME AFTER USER GOES ON-HOOK
This is the minimum guaranteed conversation time from when the handset is lifted.

## ADJUSTMENTS

## VOLUME REGULATION

Volume levels are calibrated by default so not to require adjustments in most cases.
Use a screwdriver to adjust the trimmers if required.

## TROUBLESHOOTING

Establishing the cause of problems related to a door unit with digitiser Ref. 1072/5 is simple (e.g. no courtesy tone after a call button is pressed):

- Short-circuit on push-button panel side (L1, L2).
- Neither bus couplers are programmed as masters.


## 16-PUSHBUTTON EXPANSION MODULE Ref. 1038/17



The extension module can be used to add 16 user buttons to the door unit.
Arrange the device in the push-button panels, as shown in the following figure.
Connect the user buttons and connect the device to the door unit and to other extensions by means of the specific wire. Respect the connections and the holes in the flush mounting boxes.

Insert the expansion module in the button module compartment.


## DESCRIPTION OF TERMINALS

| C | Electrical reference earth for buttons 1-8 |
| :--- | :--- |
| P1...P8 | User buttons |
| C | Electrical reference earth for buttons 9-16 |
| P9..P16 | User buttons |

## TECHNICAL SPECIFICATIONS

| - Consumption: | 1 mA Max |
| :--- | ---: |
| - Current in user button: | $\sim 1 \mathrm{~mA}$ |
| - Working temperature range: | $+0^{\circ} \mathrm{C}-+50^{\circ} \mathrm{C}$ |
| - Humidity: | $90 \%$ RH at $30^{\circ} \mathrm{C}$ |

- Current in user button:
- Working temperature range
$90 \%$ RH at $30^{\circ} \mathrm{C}$


## K-STEEL MODULAR VANDAL-PROOF PANEL



This range of panels is characterised by a high degree of protection from acts of vandalism and the modularity of the elements. The system consists of modular stainless steel elements. Modules are secured to specially designed housings complete with flush-mounting back boxes, a structure which enables modules to be combined either vertically or horizontally.

All K-Steel products, characteristics and installation procedures are shown in Technical product manual - door phone and video door phone systems section "K-Steel modular vandal-proof panel"

## DOOR CAMERA MODULE FOR K-STEEL VANDAL-PROOF PANEL



The following camera units can be used in Bibus VOP video door phone systems:

- Black and white

Ref. 1755/30A

- Colour

Ref. 1755/45

## PERFORMANCE

Characteristics of the device are:

- Fixed focus CCD camera with built-in optics and lens.
- Subject lighting using LED diodes.
- Possibility of adjusting camera lens vertically and horizontally.
- Extractable connection terminal board.
- Protective front window demister device.


## DESCRIPTION OF TERMINAL BOARDS

| +TC | Camera power positive input for analogic system |
| :---: | :---: |
| R2 | Camera power positive input for BIBUS IInd ed. VOP |
| R1 | Camera power negative input |
| A | Differential video signal output (negative) |
| B | Differential video signal output (positive) |
| T | Camera on control |
| $\begin{aligned} & \sim 0 \\ & \sim 12 \end{aligned}$ | Demister power |

## PRODUCT LIST

## Galvanized steel back boxes

- For 1 module
- For 2 modules
- For 3 modules

Ref. 1155/61
Ref. 1155/62
Ref. 1155/63

## Button modules

- With 1 call button without door unit

Ref. 1155/11

- With 2 call buttons without door unit Ref. 1155/12A Ref. 1155/13A Ref. 1155/14A
- With 4 call buttons without door unit

Special modules

- Repertory module

Ref. 1155/50

- Blanc module

Ref. 1155/59

## Frames

- Frame for 1 module, colour bright PVD inox
- Frame for 2 modules, colour bright PVD inox
- Frame for 3 modules, colour bright PVD inox
- Frame for 1 module, colour glazed inox
$1155 / 84$ Ref. 1155/85
- Frame for 3 modules, colour glazed inox

Ref. 1155/86
Ref. 1155/91
Ref. 1155/92
Ref. 1155/93

## Accessories

- Flush mounting joining kit

Ref. 1155/54

## Case with hood

- For 1 module

Ref. 1155/311

- For 2 modules

Ref. 1155/312

- For 3 modules

Ref. 1155/313

## INSTALLATION

1. Refer the protections from the hole to be used to pass the wires only from the flush-mounting box.


The holes in the upper part must only be used for introducing the cables if overlapped to other boxes.
2. Flush the box and the required height.


Warning: During installation, protect all parts which will be exposed to view from mortar, plaster and cement. NEVER USE ABRASIVE DETERGENTS TO CLEAN UNITS.
3. Fit the flush mounting box in line with the wall: it must not project.


5
The wall surface on which the front rests must be as smooth as possible (max. tolerance 1.5 mm ).
4. If the internal protection has been removed from the box for any reason, insert it as shown in the figure. Fix it in the upper part not used for fixing the module holder frame.

\. IMPORTANT: the warranty conditions will be forfeited if the protection is either not installed or installed incorrectly.
5. Fit the modules in the frame.

6. Fasten the module holder frame to the flush mounting boxes by means of the specific hinged attachment

K-STEEL PANEL WITH DOOR UNIT AND DIGITISER
8. Fasten the frame with the special screws provided.


The tool must only be used manually, and not fitted on electrical screwdrivers, to prevent damaging the screws and/or the tool.


| TPMP | K-STEEL MODULAR VANDAL-PROOF PANEL DOOR PHONE SYSTEMS - VIDEO DOOR PHONE SYSTEMS |  |
| :---: | :---: | :---: |
| D O M U S | DIMENSIONS |  |



Lef H1 = 139, 256, 376, 522 indicates flush mounting height and $H 2=148,266,384,532$ indicates to total height relative to 1, 2, 3 and 4 module versions.

(•) alternatives 1155/84
$(\downarrow)$ alternatives $1155 / 85$
(*) alternatives 1155/86
(@) alternatives


4

$1 \div 2$
3
5


|  | Door unit with digitiser |  | 1072/5 |  | 1072/5 |  | 1072/5 |  | 1072/5 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 16-user expansion module |  | - |  | - |  | - |  | - |  |
|  | Flush mounting box with module housing (@) |  | 1155/62 |  | 1155/63 |  | 1155/63 |  | 1155/63 |  |
|  | Case with hood (@) |  | 1155/312 |  | 1155/313 |  | 1155/313 |  | 1155/313 |  |
|  | Button modules |  | 1155/14A |  | $1 \times 1155 / 11-1 \times 1155 / 14 \mathrm{~A}$ |  | $1 \times 1155 / 12 \mathrm{~A}-1 \times 1155 / 14 \mathrm{~A}$ |  | $1 \times 1155 / 13 \mathrm{~A}-1 \times 1155 / 14 \mathrm{~A}$ |  |
|  | Frames |  | 1155/92 ( $\downarrow$ ) |  | 1155/93 (*) |  | 1155/93 (*) |  | 1155/93 (*) |  |
|  | Blanc module | Repertory module | - | - | - | - | - | - | - | - |

K-STEEL MODULAR VANDAL-PROOF PANEL
-) alternatives 1155/84
( $)$ ) alternatives 1155/85
(*) alternatives 1155/86
(@) alternatives


14

(•) alternatives 1155/84
( $)$ ) alternatives 1155/85
(*) alternatives 1155/86
(@) alternatives
K-STEEL MODULAR VANDAL-PROOF PANEL DOOR PHONE SYSTEMS

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| Door unit with digitiser |  | 1072/5 |  | 1072/5 |  | 1072/5 |  | 1072/5 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 16-user expansion module |  | $1 \times 1038 / 17$ |  | $1 \times 1038 / 17$ |  | $1 \times 1038 / 17$ |  | $1 \times 1038 / 17$ |  |
| Flush mounting box with module housing (@) |  | $2 \times 1155 / 63$ |  | $4 \times 1155 / 62$ |  | $4 \times 1155 / 62$ |  | $4 \times 1155 / 62$ |  |
| Case with hood (@) |  | $2 \times 1155 / 313$ |  | - |  | - |  | - |  |
| Button modules |  | $5 \times 1155 / 14 \mathrm{~A}$ |  | $1 \times 1155 / 12 \mathrm{~A}-5 \times 1155 / 14 \mathrm{~A}$ |  | $1 \times 1155 / 13 \mathrm{~A}-5 \times 1155 / 14 \mathrm{~A}$ |  | $6 \times 1155 / 14 \mathrm{~A}$ |  |
| Frames |  | $2 \times 1155 / 93$ (*) |  | $4 \times 1155 / 92$ ( |  | $4 \times 1155 / 92$ ( |  | $4 \times 1155 / 92$ ( |  |
| Blanc module | Repertory module | - | - | - | 1155/50 | - | 1155/50 | - | 1155/50 |
| Flush mounting joining kit |  | - |  | $1 \times 1155 / 54$ |  | $1 \times 1155 / 54$ |  | $1 \times 1155 / 54$ |  |



28


29


30
30



23


24


25

(•) alternatives 1155/84
( $\downarrow$ ) alternatives 1155/85
(*) alternatives 1155/86
(@) alternatives


26

|  | 26 |  |
| :---: | :---: | :---: |
| Door unit with digitiser | 1072/5 |  |
| 16-user expansion module | $1 \times 1038 / 17$ |  |
| Flush mounting box with module housing (@) | $3 \times 1155 / 63$ |  |
| Case with hood (@) | $3 \times 1155 / 313$ |  |
| Button modules | $6 \times 1155 / 14 \mathrm{~A}$ |  |
| Frames | $3 \times 1155 / 93$ (*) |  |
| Blanc module $\quad$ Repertory module | 1155/59 | 1155/50 |
| Flush mounting joining kit | - |  |



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072/5
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|  |  |
| :--- | :--- |
|  |  |
|  |  |
| $155 / 50$ |  |
|  |  |


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| :--- | :--- |
|  |  |
|  |  |
|  |  |



29


30


31
31
$1072 / 5$
$1 \times 1038$ $3 \times 11$
$3 \times 1155 / 31$

| Button modules | $3 \times 1155 / 313$ |
| :--- | :---: |
| Frames | $1 \times 1155 / 13 \mathrm{~A}-6 \times 1155 / 14 \mathrm{~A}$ |
| Bren |  |


| Blanc module | Repertory module | - | $1155 / 50$ |
| :--- | :--- | :--- | :--- |
| Flush mounting |  |  |  |

Flush mounting joining kit


32


33


34

(•) alternatives 1155/84
( $)$ ) alternatives 1155/85
(*) alternatives 1155/86
(@) alternatives



38


40
0
 1072/5 $6 \times 1155 / 62$



42


44


45 45 1038/17 1038/17

|  | $1072 / 5$ |
| :---: | :---: |
|  | $2 \times 1038 / 17$ |
|  | $6 \times 1155 / 62$ |
|  | - |
|  | $1 \times 1155 / 13 \mathrm{~A}-10 \times 1155 / 14 \mathrm{~A}$ |
|  | $6 \times 1155 / 92(\bullet)$ |



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|  | K-STEEL MODULAR VANDAL-PROOF PANEL VIDEO DOOR PHONE SYSTEMS |  |
| :---: | :---: | :---: |
| D O M U S | EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES |  |


$\left.{ }^{\circ}{ }^{\circ}\right)$ alternatives 1155/85
(*) alternatives 1155/86
(@) alternatives
(§) alternatives

K-STEEL MODULAR VANDAL-PROOF PANEL

## VIDEO DOOR PHONE SYSTEMS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES



11


12


13



15


16


17

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$\longrightarrow$ C.




## Mod. 725 PANEL WITH DOOR UNIT AND DIGITISER

## Download from www.urmetdomus.com Technical Manuals area.

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D OMUS

## LOUDSPEAKING UNIT WITH BUILT-IN DIGITALIZER DEVICE Ref. 1072/19A



## PERFORMANCE

- Can be installed with Urmet Domus 725 two-row push-button panels.
- 18 user terminals which can be directly connected to buttons.
- Connector for 16 user expansion module Ref. 1038/17.
- Maximum four expansion modules (connected in series) for maximum 82 user buttons in each door unit.
- Possibility of assigning alphanumeric call button code with letter prefix or suffix A-J.
- The digitiser is programmed by means of an external programming device Ref. 1072/60 which in turn must be connected to a pushbutton panel Ref. 1032/65.
- Simplified programming with LED button and two dip-switches in simple systems.
- Possibility of programming one or more buttons for controlling a special decoder ("staircase lights" function).
- Electrical relay load control actuator with NC-C-NO outputs and programmable activation time, from 1 to 30s
- Programmable door phone hang-up waiting time (10, 20, 30, 40s).
- Programmable minimum guaranteed conversation time (10, 20, 30, 40s).
- Maximum conversation time: 250s.
- Open door contact input.
- Hall button timed input.
- Acoustic call sent signal
- Busy function signalled by busy tone when a button is pressed to busy time-out.
- Two trimmers for adjusting speaker and microphone volume.
- Opto-isolated control signal management for video door phone systems.
- Possibility of programming a pre-set button for direct switchboard calls (day state only).

LOUDSPEAKING UNIT WITH BUILT-IN DIGITALIZER DEVICE Ref. 1072/19A
DEFAULT PROGRAMMING - CONNECTIONS - FUNCTION - ADJUSTMENTS

## DEFAULT PROGRAMMING

LE Refer to section 1A "Programming" in this manual for how to program the device.

The device default settings are:

- System type:
- Station type:

2nd edition
main

- Code format:
numeric (0001-9999)
- Station number: 1
- Off-hook waiting time: 40s
- Busy time: 20s
- Door opener time: 3s

Code button association
$\begin{array}{ll}\text { LLLL } & \text { P1 } \\ 1002 & \text { P2 }\end{array}$
. .

1082 P82
To restore default settings, insert the programming device and hold bs (back space) button pressed for longer than three seconds until you hear a beep.
Alternatively, without the programming device, hold the programming button (5) pressed for longer than three seconds until you hear a beep.

## CONNECTIONS

IMPORTANT: Observe the instructions contained in section 1 for wiring and maximum distances.

Up to 18 user buttons can be connected directly to the door unit. When a higher number of user is required, a Ref. 1038/17 expansion module can be connected. This allows the addition of 16 user buttons to the 18 basic buttons. Up to four expansion units can be connected to each door unit, for a total of 82 user buttons.
Position two call units side by side if a station with more than 82 users is required. The door unit is programmed by default with a jumper between the earth and the "SP" signal to simulate the door closed contact. Remove the jumper and connect the sensor between GND and SP when the open door contact is required.
Internal calling station circuits are power by bus voltage.

## FUNCTION

## CALLS

Up to 82 users can be called by pressing the corresponding buttons on the panels associated to the door unit with digitiser Ref. 1072/19A. Additionally, a concierge switchboard Ref. 1072/42 can be called, simply by pressing a call button associated to code 0000 during programming (day mode only). A courtesy ring, similar to that generated on a called door phone, will be heard.

## STAIRCASE LIGHTS FUNCTION

Press the button programmed for this function. A command will be sent to the special decoder and a confirmation beep will be heard. The staircase light function is assigned to button P1 by default.
LIf the staircase lights button is pressed during the programming procedure, it will be reprogrammed with the user code corresponding to the position.

## BUSY FUNCTION

This function is only required in systems with more than one calling device. This function is used to ensure that a conversation lasts sufficiently long following a call. An intermittent beep will be heard on the speaker for the time before the busy time-out and the panel will be disabled.

Two cases can occur:

## BUSY TIME BEFORE THE CALL USER GOES ON-HOOK

This is the maximum time for the user to lift the handset or open the door without loosing the call after the ring.
buSY time after user goes on-hook
This is the minimum guaranteed conversation time from when the handset is lifted.

## ADJUSTMENTS

## VOLUME REGULATION

Volume levels are calibrated by default so not to require adjustments in most cases.
Use a screwdriver to adjust the trimmers if required.

## TROUBLESHOOTING

Establishing the cause of problems related to a door unit with digitiser Ref. 1072/19A is simple (e.g. no courtesy tone after a call button is pressed):

- Short-circuit on push-button panel side (L1, L2).
- Neither bus couplers are programmed as masters.

16-PUSHBUTTON EXPANSION MODULE Ref. 1038/17


The extension module can be used to add 16 user buttons to the door unit.
Arrange the device in the push-button panels, as shown in the following figure.
Connect the user buttons and connect the device to the door unit and to other extensions by means of the specific wire. Respect the connections and the holes in the flush mounting boxes.


Insert the device in a free bulb holder.

## DESCRIPTION OF TERMINALS

C $\quad$ Electrical reference earth for buttons 1-8
P1...P8 User buttons
C Electrical reference earth for buttons 9-16
P9..P16 User buttons

## TECHNICAL SPECIFICATIONS

- Consumption:
- Current in user button:
- Working temperature range:
- Humidity:

1mA Max

## ADAPTER DEVICE FOR TV CAMERA Ref. 1742/13A



The device is used in Bibus 2nd edition VOP video door phone systems.
The adapter must be used in combination with cameras Ref. 725/600.

The adapter transforms the composite video signal from the camera into two differential video signals ( $A$ and $B$ ).

CAMERA UNIT ASSEMBLY INSTRUCTIONS Mod. 725

$\qquad$

PANELS WITH ANODIZED ALUMINIUM FRONT PLATE Mod. 725

## PANELS WITH ANODIZED ALUMINIUM FRONT PLATE Mod. 725



725 panel with aluminium front plate is modular. Various door phone and video door phone configurations can be made by arranging panels and camera units where relevant to obtain the required capacity.
LT Two-row panels only can be installed to create from 4 to 82 user systems.

All 725 products, characteristics and installation procedures are shown in Technical product manual - door phone and video door phone systems section "Panels with anodized aluminium front plate Mod. 725".

## CAMERA UNIT

The following camera unit must be used in combination with 725 panels with door unit and digitiser Ref. 1072/19A in VOP video door phone systems:

- Front with flush-mounting box and lights.
- CCD camera and lens.


## FRONT PLATE AND EMBEDDING BOX GROUP

 Ref. 725/602The group Ref. 725/602, with front plate width 205 mm , can be coupled to push button panels Mod. 725 with 4 to 28 buttons on 2 rows.


For installation, join the embedding box of the TV camera unit with the push button panel embedding box by means of the white wirespacers (supplied with the TV camera unit). In case of coupling of 2 or more push button panels, couple the embedding boxes by means of the proper black wire-spacers supplied with the push button panels on 2 rows not arranged for loudspeaking unit


Terminal board for connecting the camera unit are arranged on the front panel:
$\begin{array}{ll}\text { +TC } & \text { Camera power positive input } \\ \text { R1 } & \text { Camera power negative input } \\ \text { V5/B } & \text { Differential video signal output (positive) } \\ \text { V3/A } & \text { Differential video signal output (negative) }\end{array}$
Relay box or Ref. 788/52 must be used for correctly connecting the camera unit in Bibus 2nd edition VOP systems.

## CCD TV CAMERA Ref. 725/600



Easy to insert and to remove from the embedding box, it is supplied complete of:

- TV camera with optics and incorporated shutter; the focus arrangement is fixed. Other lenses cannot be used.
- Coupling for connection to the front plate.


## PRODUCT LIST

Pushbutton with two rows of buttons and door unit set-up

- With 4 buttons
- With 6 buttons
- With 8 buttons
- With 10 buttons
- With 12 buttons
- With 14 buttons
- With 16 buttons
- With 18 buttons
- With 20 buttons
- With 22 buttons
- With 24 buttons
- With 26 buttons
- With 28 buttons


## INSTALLATION

Fit the adhesive rubbers on the door unit and digitiser.

following figure


| TP11? | PANELS WITH ANODIZED ALUMINIUM FRONT PLATE Mod. 725 DOOR PHONE SYSTEMS |  |
| :---: | :---: | :---: |
| D O M U S | DIMENSIONS | 1m |



|  |  | 2 rows | 4 rows | 6 rows | Dimension Height (mm) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Flush H1 |  |  | Front H2 |
| Number of buttons on panel |  |  | 4 |  |  | 177 | 192 |
|  |  | 6 |  |  | 201 | 216 |
|  |  | 8 |  |  | 225 | 240 |
|  |  | 10 |  |  | 249 | 264 |
|  |  | 12 | 32 |  | 273 | 288 |
|  |  | 14 | 36 |  | 297 | 312 |
|  |  | 16 | 40 |  | 321 | 336 |
|  |  | 18 | 44 | 70 | 345 | 360 |
|  |  | 20 | 48 | 76 | 369 | 384 |
|  |  | 22 |  |  | 393 | 408 |
|  |  | 24 |  |  | 417 | 432 |
|  |  | 26 | 60 |  | 441 | 456 |
|  |  | 28 |  |  | 465 | 480 |
| Dimension Width (mm) | Flush | 194 | 399 | 604 |  |  |
|  | Front | 205 | 410 | 615 |  |  |

\& Position the lower edge of the push-button panel at a height of approximately 1.50 metres from the floor.



|  | PANELS WITH ANODIZED ALUMINIUM FRONT PLATE Mod. 725 DOOR PHONE SYSTEMS |  |
| :---: | :---: | :---: |
| D OMUS | EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES |  |


Mod. 725 PANEL WITH DOOR UNIT AND DIGITISER PANELS WITH ANOD. ALUMIN. FRONT PLATE - VIDEO DOOR PHONE SYSTEMS

PANELS WITH ANODIZED ALUMINIUM FRONT PLATE Mod. 725


|  |  | 2 rows | 4 rows | 6 rows | Dimension Height (mm) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Flush H1 |  |  | Front H2 |
| Number of buttons on panel |  |  | 4 |  |  | 297 | 312 |
|  |  | 6 | 30 |  | 321 | 336 |
|  |  | 8 | 34 | 60 | 345 | 360 |
|  |  | 10 | 38 | 66 | 369 | 384 |
|  |  | 12 |  |  | 393 | 408 |
|  |  | 14 |  |  | 417 | 432 |
|  |  | 16 | 50 | max. 82 | 441 | 456 |
|  |  | 18 |  |  | 465 | 480 |
|  |  | 20 |  |  | 489 | 504 |
|  |  | 22 |  |  | 513 | 528 |
|  |  | 24 |  |  | 537 | 552 |
|  |  | 26 |  |  | 561 | 576 |
|  |  | 28 |  |  | 585 | 600 |
| Dimension Width (mm) | Flush | 194 | 399 | 604 |  |  |
|  | Front | 205 | 410 | 615 |  |  |

L. Position the button so that the upper edge of the camera unit flush mounting box is at a height of approximately $1.50 \div 1.60$ metres from the ground.



## WALL-MOUNTED PANEL Mod. 1128

## Download from www.urmetdomus.com Technical Manuals area.

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PROGRAMMING

## WALL-MOUNTED PANEL Mod. 1128

The push-button panels Mod. 1128 are the ideal compromise between inexpensiveness, design, straightforward installation and communicating efficiency for making door phone systems

All the push-button panels can be installed rested on the wall with screws and plugs keeping a low projection from the wall: just 41 mm . In consideration of its reduced width, installation of the push-button panel is also possible on a gatepost.

The push-buttons, which also act as transparent cover for the name tag, are modular and come in two versions with different sizes.

The following 2 models of push-button panels are available: set-up for outdoor house phone station, and set-up for push-buttons only. Every model is available in two different colours: Anthracite and grey.
The additional casings with push-buttons only can be fitted at the side of those set up for the outdoor station, thereby making it possible to make door phone systems with a maximum of 34 small pushbuttons.

In the case of particular requirements the push-button panel can be flush-fitted using the specific box Ref. 1128/51, in this case, protrusion from the edge of the wall is reduced to a few millimetres.

## TECHNICAL FEATURES

Dimensions:
Material:

Name tag:
Name tag lighting:
Working temperature range:
Degree of protection:
$246 \times 99 \times 41 \mathrm{~mm}$ ABS base and hood Anodised aluminium front small button $20 \times 60 \mathrm{~mm}$ big button $40 \times 60 \mathrm{~mm}$ RGB customisable colour LED $-10 \div 50^{\circ} \mathrm{C}$
IP44

## CASES WITH FRONT FOR OUTDOOR HOUSE PHONE STATION



The casings with front for outdoor house phone station come in two versions of different colour:

- Anthracite

Ref. 1128/44

- Grey

Ref. 1128/45
In both it is possible to install up to 4 small push-buttons ( $20 \times 60 \mathrm{~mm}$ ) or up to 2 large push-buttons ( $40 \times 60 \mathrm{~mm}$ ).
The casings are supplied with reflecting bases with the related lighting circuit with leds.


1. Programming button
2. Calling buttons
3. Connector for connecting buttons modules
4. External power $12 \mathrm{~V} \sim$ selector jumper
5. Name tag lighting LED connector
6. Installed button type selection jumper: small or large

## DESCRIPTION OF TERMINALS

$\underset{\sim 12}{\sim}\}$ Name tag lighting via external transformer

## LOUDSPEAKING UNIT Ref. 1072/28

## PERFORMANCE

- Connection with up to 1 module Ref. 1128/44 or Ref. 1128/45 and 3 button modules Ref. 1082/40 or Ref. 1082/41 for a total of 34 user buttons for each door unit.
- Possibility of assigning alphanumeric call button code with letter prefix or suffix A-J.
- The unit is programmed by means of an external programming device Ref. 1072/60 which in turn must be connected to a panel Ref. 1032/65.
- Simplified programming with LED button and two dip-switches in simple systems.
- Possibility of programming one or more buttons for controlling a special decoder ("staircase lights" function).
- Electrical relay load control actuator with NC-C-NO outputs and programmable activation time, from 1 to 30s.
- Programmable door phone pick-up time (10, 20, 30, 40s).
- Programmable minimum guaranteed conversation time (10, 20, 30, 40s).
- Maximum conversation time: 250s.
- Open door contact input.
- Hall button timed input.
- Acoustic "call placed" signal.
- Busy function signalled by busy tone when a button is pressed to busy time-out.
- Two trimmers for adjusting speaker and microphone volume.
- Possibility of programming a pre-set button for direct switchboard calls (day state only).
- Programmable button LED colour.


## STRUCTURE



The door unit consists of the following parts:

1. Microphone volume adjustment trimmer
2. Connector (EXP) for connecting buttons module
3. Simplified dip-switch programming
4. Simplified programming LED button
5. Programming connector via adapter 1072/60 and keyboard 1032/65
6. Speaker volume adjustment trimmer

## DESCRIPTION OF TERMINAL BOARDS

| L1 | Bus Line 1st connector |
| :--- | :--- |
| L2 | Bus Line 2nd connector |
| PA | Hall door opener button input (normally open) |
| SP | Open door sensor contact input (closed with closed door) |
| GND | Reference earth PA, SP. |
| $\sim 0$ | Relay power for electrical lock |
| $\sim 12$ | Relay power for electrical lock |
| C | Relay exchange electrical lock common contact |
| NC | Electrical lock relay normally closed contact. |
| NO | Electrical lock relay normally open contact. |
| R | Video switching enable signal for video systems |
| R1 | Video power earth |

## TECHNICAL SPECIFICATIONS

Stand-by consumption:
Active voice consumption:
Relay contact:
Working temperature range:
Humidity:

## DEFAULT PROGRAMMING

4
Refer to section 1A "Programming" in this manual for how to program the device.

The device default settings are:

- System type:
- Station type: 2nd edition
- Code format: numeric (0001-9999)
- Station number: 1
- Off-hook waiting time: 40s
- Busy time: 20s
- Door opener time: 3s
- Led colour:

Green
To restore default settings, insert the programming device and hold bs (back space) button pressed for longer than three seconds until you hear a beep. Alternatively, without the programming device, hold the programming button pressed for longer than three seconds until you hear a beep

## INSTALLATION

Proceed as follows to install the loudspeaking unit in the 1128/44 or /45 cases:


The following elements must be considered for correct system construction:

- The surrounding electrical environment.
- The wire type and cross-section area.
- The extension of the system.

IMPORTANT: Observe the instructions contained in section 1 for wiring and maximum distances.

4
Internal calling station circuits are power by bus voltage.

## FUNCTION

## CALLS

Up to 34 users can be called by pressing the corresponding buttons on the panels associated to the door unit with digitiser Ref. 1072/28. Additionally, a concierge switchboard Ref. 1072/42 can be called, simply by pressing a call button associated to code 0000 during programming (day mode only). A courtesy ring, similar to that generated on a called door phone, will be heard.

## STAIRCASE LIGHTS FUNCTION

Press the button programmed for this function. A command will be sent to the special decoder and a confirmation beep will be heard. The staircase light function is assigned to button P1 by default.
If the staircase lights button is pressed during the programming procedure, it will be reprogrammed with the user code corresponding to the position.

## BUSY FUNCTION

This function is only required in systems with more than one calling device. This function is used to ensure that a conversation lasts sufficiently long following a call. An intermittent beep will be heard on the speaker for the time before the busy time-out and the panel will be disabled

Two cases can occur:
BUSY TIME BEFORE THE CALL USER GOES ON-HOOK
This is the maximum time for the user to lift the handset or open the door without loosing the call after the ring.

## BUSY TIME AFTER USER GOES ON-HOOK

This is the minimum guaranteed conversation time from when the handset is lifted.

## LED COLOUR PROGRAMMATION

On module Ref. 1128/44 or Ref. 1128/45, press the button to program the LED colours.


Press button 2 to scroll the colour palette. Press button 1 to go back to palette selection.
Ly
There are 37 available colours are proposed as follows: light with colours traditionally used for panels (emerald green, blue, amber, light green), switch-off, 33 customised colour lights. The LEDs will go out at the end of the sequence. Press button 2 again to repeat the sequence from the beginning.

After selecting the colour, press the programming button to end the colour selection procedure.

## ADJUSTMENTS

## VOLUME REGULATION

Volume levels are calibrated by default so not to require adjustments in most cases.
Use a screwdriver to adjust the trimmers if required.

## TROUBLESHOOTING

Establishing the cause of problems related to a door unit with digitiser Ref. 1072/28 is simple (e.g. no courtesy tone after a call button is pressed):

- Short-circuit on push-button panel side (L1, L2).
- Neither bus couplers are programmed as masters.


## CASING WITH FRONT FOR BUTTONS



The casings with front come in two versions of different colour:

- Anthracite

Ref. 1082/40

- Grey Ref. 1082/41

These casings, which are already set up with the Name tag light power circuit, make it possible to increase the number of users that can be called. Indeed, it is possible to install up to 10 small push-buttons (20 $\times 60 \mathrm{~mm})$ or up to 5 large push-buttons $(40 \times 60 \mathrm{~mm})$ on them.
The casings with front can be installed at the side of any other pushbutton panel set up for outdoor station, using the special fairlead shims provided and following the instructions given in the "Installing casings side by side" paragraph.
The casings are supplied with five reflecting bases with the related lighting circuit with leds.


1. Name tag lighting LED connector
2. Calling buttons
3. Connector for button module connection
4. Connector for connecting the previous button module or door unit module
5. Reflecting bases

## PUSH-BUTTONS

The push-buttons to be installed on the various casings are to be bought separately and come in two versions with different sizes:

- Small button $20 \times 60 \mathrm{~mm}$

Ref. 1128/1

- Big button
$40 \times 60 \mathrm{~mm}$
Ref. 1128/2
The push-buttons are supplied complete with:
- Button body that can be clipped onto the base of the push-button panel.
- Transparent protective cover with indication of pressing point.
- Support for installation and clipping onto the casings.
- Transparent name tag.
- Name tag lighting diffuser.

3
The large push-buttons should always be positioned in correspondence with the reflecting chambers and not superimposed on two of them.

BUTTON TYPE SELECTION
Use Jumper 1 of the door unit module Ref. 1128/44 or Ref. 1128/45 to select the type of buttons fitted.

Jumper inserted to make small button panels Ref. 1128/1 (default).


Jumper not inserted to make large button panels Ref. 1128/2.


NAME TAG ASSEMBLY


- Fit the support with the transparent cover starting from the top downwards.


4 The figures refer the installation of a small push-button, the large push-button Ref. 1128/2, should be installed in the same way.

## SPECIAL MODULES

In replacement of the push-buttons the following special modules can be installed:

- Anthracite blank modules
(dimensions $20 \times 60 \mathrm{~mm}$ ):
Ref. 1128/30
- Grey blank modules
(dimensions $20 \times 60 \mathrm{~mm}$ ):
- Transparent module with tag for house number (dimensions $40 \times 60 \mathrm{~mm}$ ):

Ref. 1128/31

LT The installation procedures are the same as those described for the push-buttons.

## PANEL INSTALLATION

- Remove the name tag light circuit.

- Fasten the casing base on a flat wall, at the height shown in the figure, using the screws $(A)$ and wall plugs $(B)$ provided or on a box Mod. 503.

- Insert the door unit and the microphone on the base of the specific housing.

- Connect the wires (it is advisable to have the protrude from the wall by approximately 50 mm ).

4
The power supply of the name card lighting leds must be the same used for the electrical lock ( $\sim 0 \sim 12$ ). The door unit module jumper should be fitted as shown in the figure.


Every calling station must have its own dedicated supply (~0 ~12): it is not possible to connect more than one push-button panel to a single transformer.

- Fasten the name tag light circuit.

- Insert door unit and handset on base of casing.

- Adjust the volume.
- Fit the support with the transparent cover starting from the top downwards as shown in the figure below.

- Write the name on the name tags and insert them in the housings.

- Insert the front part of the panel on the base and fasten it with the socket head screw using the wrench (2mm) provided.


PUSH-BUTTON PANELS

## INSTALLING CASINGS SIDE BY SIDE

The casings can be joined together using the special fairlead shims (provided) either vertically or horizontally.
The shims are hollow to allow the passage of wires from one pushbutton panel to the other.

VERTICAL INSTALLING SIDE BY SIDE

HORIZONTAL INSTALLING SIDE BY SIDE


To install a casing with buttons only at the side of a casing for outdoor station proceed as follows:

- Remove reflecting bases and button from the button modules.


PUSH-BUTTON PANELS

- Take out the removable plug of the casing on the side for which installation is required.
- Remove the outer wall in correspondence of the holes left by the plugs with the help of flat-nosed pliers.
- Insert the fairlead shims (D) and join the two casings.
- Fix the casings to the wall.
- Remove the reflecting bases and the buttons from the door unit module.

$\qquad$
- Connect the buttons of the various modules with the wire provided passing it through the wire grommet .

- Refit the buttons and the reflecting bases on the respective modules.
- Complete installation by inserting the protective glass, the name tags and the frontal part.


## FLUSH-MOUNTING

For flush-mounting the push-button panel the special box must be purchased separately (Ref. 1128/51), then proceed as follows:

- Make the hole for letting through the connection wires before closing the flush-mounting box.

- Embed the box in the wall.

- Fasten the frame provided to the box.
- Screw the casing base to the frame.

- Complete installation as described in the previous paragraphs according to the type of casing.
For installing push-button panels side by side, special fairlead shims are provided to be placed between the flush-fitting boxes.

HORIZONTAL INSTALLING SIDE BY SIDE


VERTICAL INSTALLING SIDE BY SIDE


| With small buttons |  |  | BUTTONS NUMBER |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  | 101 | 11 |  |  |  |  | $617$ | $18$ | $192$ |  |  |  |  |  |  |  | 28 |  |  |  |  | 33 34 |
| COMMON PRODUCTS | Loudspeaking unit with digital. | 1072/28 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 11 | 11 | 1 | 1 | 1 | 1 | 11 | 1 | 1 | 11 | 11 | 1 | 1 | 1 | 1 | 1 | 11 | 1 |
|  | Buttons | 1128/1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 91 | 101 | 11 | 121 | 131 | 1415 | 1516 | 617 | 18 | 19 | 202 | 212 | 222 | 232 | 2425 | 2526 |  | 28 | 293 | 303 |  | 3233 | 3334 |
| ANTHRACITE | Casing with front for door unit | 1128/44 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 11 | 11 | 1 | 1 | 1 | 1 | 11 | 1 | 11 |  | 11 | 1 | 1 | 1 | 11 | 1 |  | 1 |
|  | Casing with front | 1082/40 | - | - |  | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 12 | 22 | 2 | 2 | 2 | 2 | 22 | 2 | 2 |  | 33 | 3 | 3 | 3 | 3 | 3 | 33 | 3 |
|  | $\begin{aligned} & \hline \text { Blank module } \\ & (@) \end{aligned}$ | 1128/30 | 3 | 2 | 1 | - | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  | 98 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  | 98 | 7 | 6 | 5 | 43 | 2 | 2 | 1 |
| GRAY | Casing with front for door unit | 1128/45 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  | 11 | 1 | 1 | 1 | 1 | 1 | 11 | 1 |
|  | Custodia con frontale | 1082/41 | - | - |  |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 12 | 22 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 23 | 33 | 3 | 3 | 3 | 3 | 3 | 33 | 3 |
|  | Blank module (@) | 1128/31 | 3 | 2 | 1 | - | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 9 | 98 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  | 98 | 7 | 6 | 5 | 43 | 2 | 2 | 1 |
| ACCESSORIES | Flush mounting | 1128/51 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 23 | 33 | 3 | 3 | 3 | 3 | 33 | 3 | 3 | 34 | 44 | 4 | 4 | 4 | 4 | 4 | 44 | 4 |
| (@) as an alternative to two blank modules, it is possible to install a house number module Ref. 1128/5 |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 91 | 10 | 11 |  |  |  | 1516 | 617 | 18 | 19 |  | 212 | 22 | 232 | 2425 | 25 | 27 | 28 | 293 | 303 |  |  | 3314 |
|  |  |  | BUTTONS NUMBER |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| With large buttons |  |  | BUTTONS NUMBER |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  | 13 |  |  |  |  |
| COMMON PRODUCTS | Loudspeaking unit with digital. | 1072/28 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  | Buttons | 1128/2 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| ANTHRACITE | Casing with front for door unit | 1128/44 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  | Casing with front | 1082/40 |  | - | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
|  | Blank module (@) | 1128/30 | 1 | - | 4 | 3 | 2 | 1 | - | 4 | 3 | 2 | 1 | - | 4 | 3 | 2 | 1 | - |
| GRAY | Casing with front for door unit | 1128/45 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  | Casing with front | 1082/41 |  | - | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
|  | Blank module <br> (@) | 1128/31 | 1 | - | 4 | 3 | 2 | 1 | - | 4 | 3 | 2 | 1 | - | 4 | 3 | 2 | 1 | - |
| ACCESSORIES | Flush mounting | 1128/51 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| (@) as an alternative to two blank modules, it is possible to install a house number module Ref. 1128/5 |  |  | BUTTONS NUMBER |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

EXAMPLES OF MODULAR CONSTRUCTIONS WITH SMALL BUTTONS



EXAMPLES OF MODULAR CONSTRUCTIONS WITH LARGE BUTTONS


## Exigo PANEL WITH DOOR UNIT AND DIGITISER

## Download from www.urmetdomus.com Technical Manuals area.

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D O M U S

## PUSH BUTTON PANEL EXIGO

Exigo is the new, elegant and customisable, brass-plated Urmet Domus panel.
A special space for an engraved plate is provided on the panel. The space may be used to fit plate showing the name of the building, the address, the street number and other information, on one or two lines. Two types of fonts may be chosen.
The basic panel is supplied with a brass panel to be engraved. Other two options are available upon request: an engraved brass plate or an anthracite grey PVC plate. You may choose what information to be written on the name tags (name, floor/apartment number, etc.) and the number of lines (1 or 2).
The name tags are backlit by a set of high-efficiency white LEDs. This feature may also be customised by purchasing a blue or green coloured film.
Polished brass-plate and matte brass-plate panels are available. The system is suitable for use in both door phone and video door phone systems (colour or black and white).
All parts of the front panel are treated by means of a ion plating protection process (PVD) to make them corrosion and rustproof. The panels are particularly resistant to weather elements.
The Exigo panels may be installed in Sinthesi flush-mounting boxes or in specific boxes.

All versions are complete with:

- LED name tag lighting unit.
- Brass-plate name tags to be engraved.
- Tamperproof screws and screwdriver.
- Drilling template for fastening the door unit (versions 1143 and 1743).


## ELECTRICAL SPECIFICATIONS

AND
MECHANICAL

| Front projection from wall: | $\mathbf{1 7 m m}$ |
| :--- | ---: |
| Total button stroke: | $>4 \mathrm{~mm}$ |
| Idle button stroke: | $>2.4 \mathrm{~mm}$ |
| Isolation voltage between contacts: | 500Vac |
| Max. button cut-off current: | 2Aac |
| Name tag lighting: | white LED diodes |
| Temporary name tags: | Plexiglas |
| Max. wire cross-section area for button and light terminals: | $1.5 \mathrm{~mm}^{2}$ |
| Corrosion: | as per DIN 5342/64 standard |
| Test duration: | 16 hours |
| Test temperature range: | $35^{\circ} \mathrm{C}$ |

IMPORTANT: Clean with a dry, soft cloth. Do not use brass polish.

## HOW TO FORM THE PANEL CODE

Please provide a code formed as follows for ordering a customised part:


Engraved font:
0 - none
1-SL43
2 - Aero
Number of engraved lines:
0 - none
1 - one line
2 - two lines

## Front panel finish

S - matte
L-polished
Number of buttons
Front panel type:
1743 - video door phone in Sinthesi box
1143 - door phone in Sinthesi box
1721 - video door phone in dedicated box
1121 - door phone in dedicated box

EXAMPLE OF ENGRAVED FRONT PANEL


SL43 FONT


EXAMPLE OF NAME TAG CUSTOMISATION
PVC PLATE - SL43 FONT


BRASS PLATE - STENCIL FONT

LEMMES

## LOUDSPEAKING UNIT Ref. 1072/28

## PERFORMANCE

- Possibility of assigning alphanumeric call button code with letter prefix or suffix A-J.
- The unit is programmed by means of an external programming device Ref. 1072/60 which in turn must be connected to a panel Ref. 1032/65.
- Simplified programming with LED button and two dip-switches in simple systems.
- Possibility of programming one or more buttons for controlling a special decoder ("staircase lights" function).
- Electrical relay load control actuator with NC-C-NO outputs and programmable activation time, from 1 to 30s.
- Programmable door phone pick-up time (10, 20, 30, 40s).
- Programmable minimum guaranteed conversation time (10, 20, 30, 40s).
- Maximum conversation time: 250s.
- Open door contact input.
- Hall button timed input.
- Acoustic "call placed" signal.
- Busy function signalled by busy tone when a button is pressed to busy time-out.
- Two trimmers for adjusting speaker and microphone volume.
- Possibility of programming a pre-set button for direct switchboard calls (day state only).
- Programmable button LED colour.
- Connector for 16 user expansion module Ref. 1038/17.


## STRUCTURE



The door unit consists of the following parts:

1. Microphone volume adjustment trimmer
2. Connector (EXP) for connecting expansion modules
3. Simplified dip-switch programming
4. Simplified programming LED button
5. Programming connector via adapter 1072/60 and keyboard 1032/65
6. Speaker volume adjustment trimmer

## DESCRIPTION OF TERMINAL BOARDS

## L1 Bus Line 1st connector

L2 Bus Line 2nd connector
PA Hall door opener button input (normally open)
SP Open door sensor contact input (closed with closed door)
GND Reference earth PA, SP.
~0 Relay power for electrical lock
~12 Relay power for electrical lock
C Relay exchange electrical lock common contact
NC Electrical lock relay normally closed contact.
NO Electrical lock relay normally open contact.
R Video switching enable signal for video systems
R1 Video power earth

## TECHNICAL SPECIFICATIONS

| Stand-by consumption: | $<6,5 \mathrm{~mA}$ |
| :--- | ---: |
| Active voice consumption: | $<70 \mathrm{~mA}$ |
| Relay contact: | $2 A$ |
| Working temperature range: | $-10^{\circ} \div+50^{\circ}$ |
| Humidity: | $5 \% \div 95 \%$ |

## DEFAULT PROGRAMMING

Refer to section 1A "Programming" in this manual for how to program the device.

The device default settings are:

- System type:
- Station type:
2nd edition
main
numeric (0001-9999)
1
40 s
20 s
3 s
- Station number: 1
- Off-hook waiting time: 40s
$\begin{array}{lr}\text { - Busy time: } & \text { 20s } \\ \text { - Door opener time: } & 3 \mathrm{~s}\end{array}$
To restore default settings, insert the programming device and hold bs (back-space) button pressed for longer than three seconds until you hear a beep. Alternatively, without the programming device, hold the programming button pressed for longer than three seconds until you hear a beep.


## CONNECTIONS

Proceed as follows for assembling the door unit.
The following elements must be considered for correct system construction:

- The surrounding electrical environment.
- The wire type and cross-section area.
- The extension of the system.

IMPORTANT: Observe the instructions contained in section 1 for wiring and maximum distances.
Internal calling station circuits are power by bus voltage.

## FUNCTION

## CALLS

Up to 20 users can be called by pressing the corresponding buttons on the panels associated to the door unit with digitiser Ref. 1072/28. Additionally, a concierge switchboard Ref. 1072/42 can be called, simply by pressing a call button associated to code 0000 during programming (day mode only). A courtesy ring, similar to that generated on a called door phone, will be heard.

## STAIRCASE LIGHTS FUNCTION

Press the button programmed for this function. A command will be sent to the special decoder and a confirmation beep will be heard. The staircase light function is assigned to button P1 by default.

$a$
If the staircase lights button is pressed during the programming procedure, it will be reprogrammed with the user code corresponding to the position.

## BUSY FUNCTION

This function is only required in systems with more than one calling device. This function is used to ensure that a conversation lasts sufficiently long following a call. An intermittent beep will be heard on the speaker for the time before the busy time-out and the panel will be disabled.

Two cases can occur:
BUSY TIME BEFORE THE CALL USER GOES ON-HOOK
This is the maximum time for the user to lift the handset or open the door without loosing the call after the ring.

## BUSY TIME AFTER USER GOES ON-HOOK

This is the minimum guaranteed conversation time from when the handset is lifted.

## ADJUSTMENTS

## VOLUME REGULATION

Volume levels are calibrated by default so not to require adjustments in most cases.
Use a screwdriver to adjust the trimmers if required.

## TROUBLESHOOTING

Establishing the cause of problems related to a door unit with digitiser Ref. 1072/28 is simple (e.g. no courtesy tone after a call button is pressed):

- Short-circuit on push-button panel side (L1, L2).
- Neither bus couplers are programmed as masters.


## 16-PUSHBUTTON EXPANSION MODULE Ref. 1038/17



The extension module can be used to add 16 user buttons to the door unit.
Position the device in the panels as shown in the figures below under the LED circuits for lighting the name tags.
Connect the user buttons and connect the device to the door unit and to other extensions by means of the specific wire. Respect the connections directions.

Connect the expansion unit instead of the door unit using the flat wire supplied with the door unit Ref. 1072/28.


## DESCRIPTION OF TERMINALS

| C | Electrical reference earth for buttons 1-8 |
| :--- | :--- |
| P1...P8 | User buttons |
| C | Electrical reference earth for buttons 9-16 |
| P9..P16 | User buttons |

## TECHNICAL SPECIFICATIONS

- Consumption:
- Current in user button:
- Working temperature range:
- Humidity:

1mA Max
~1mA
$+0^{\circ} \mathrm{C}-+50^{\circ} \mathrm{C}$ $90 \%$ RH at $30^{\circ} \mathrm{C}$

DOMUS

TV CAMERA UNIT


Easy to insert and extract from the front of the panel, two models of the camera unit are available:

- Colours

Ref. 1810/40

- Black/white

Ref. 1810/70
The camera units are provided with:

- Fixed focus camera with built-in optics and shutter.
- Possibility of adjusting camera lens vertically and horizontally.
- Set of infrared LEDs for illuminating the subject.
- Extractable connection terminal board.


## TECHNICAL SPECIFICATIONS

## Common features:

Lens:
standard
Shutter:
Focus:
Minimum light for acceptable pictures:
Coax video output:
Frequency:
Operating temperature range:
standard fixed 0,2 Lux min 1Vpp composite CCIR 50 Hz

## Features Ref. 1810/40

Power voltage:
Maximum uptake:
$13 \div 26$ Vdc 120 Max CCD 1/4"
mage sensor:

18Vdc
Features Ref. 1810/70
Power voltage:
Maximum uptake: CCD 1/3"
Image sensor:

## CAMERA UNIT ASSEMBLY

Proceed as follows for fixing the camera unit to the front panel:



DOMUS


T
R2

+ TC
Camera power negative
V3/A Video signal


## CAMERA LENS DIRECTION ADJUSTMENT

With this TV camera unit, it is possible to adjust the direction of the TV camera lens inside it using the specific adjustment screws A and B in order to overcome any installation flaws.
The adjustment along the vertical axis in relation to the position set is $10^{\circ}$ up and $20^{\circ}$ down.
Adjustment along the horizontal axis in relation the position set is $10^{\circ}$ in both directions (left-right).


## Orientation along the vertical axis

Turning screw A:

- In a clockwise direction (to the right) moves the pick-up field towards the top of the screen.
- In a counterclockwise direction (to the left) moves the pick-up field towards the bottom of the screen.


## Orientation along the horizontal axis

Turning screw B:

- In a clockwise direction (to the right) moves the pick-up field towards the left the screen.
- In a counterclockwise direction (to the left) moves the pick-up field towards the right of the screen.

IMAGING ANGLES


Measurements in centimetres

CAMERA ADAPTER Ref. 1742/13A


The device is used in Bibus II^ Ed. VOP video door phone systems. It transforms the composite video signal from the camera into two different video signals ( $A$ and $B$ ).

## ADAPTER INSTALLATION

1. Insert the adapter device to the side of the TV camera unit and secure it with the screw provided.
2. Remove connector A from the TV camera module.
3. Insert connector $\mathbf{A}$ in the coupling of the device and connector $\mathbf{B}$ in the coupling of the TV camera.
4. Position the conductors inside the groove of the device.


## PANELS FOR SINTHESI FLUSH-MOUNTING BOXES

This range of panels is suitable for installation in systems from 1 to 10 users. Sinthesi flush-mounting boxes adapted by means of a spacer are used.
The front panels are arranged for door unit installation. The following models are available:

## Door phone panels

with 1 calling button
Ref. 1143/101
with 2 calling buttons $\qquad$ Ref. 1143
with 3 calling buttons s Ref. 1143/103 with 4 calling buttons Ref. 1143/104
with 5 calling buttons Ref. 1143/105
with 6 calling buttons Ref. 1143/106
with 7 calling buttons Ref. 1143/107
with 8 calling buttons Ref. 1143/107
Ref. 1143/108 with 9 calling buttons Ref. 1143/109 with 10 calling buttons .................................................. Ref. 1143/110

Video door phone panels
with 1 calling button Ref. 1743/101
with 2 calling buttons $\qquad$ Ref. 1743/102
with 3 calling buttons Ref. 1743/103
with 4 calling buttons $\qquad$ with 5 calling buttons Ref. 1743/105
with 6 calling buttons $\qquad$ 1743/105
with 7 calling buttons Ref. 1743/106 with 8 calling buttons Ref. 1743/107
with 9 calling buttons Ref. 1743/108 with 10 calling buttons Ref. 1743/109

Fill in the order form and specify the required customisations by using the complete code formed as explained in the "How to form the panel code" paragraph.

## FLUSH-MOUNTING BOXES

A different box than shown in the following table must be used according to the panel model to be installed:

| Front panel code | Flush-mounting box code |
| :---: | :---: |
| Ref. 1143/101 | Ref. 1145/52 |
| Ref. 1143/102 |  |
| Ref. 1143/103 | Ref. 1145/53 |
| Ref. 1143/104 |  |
| Ref. 1143/105 |  |
| Ref. 1143/106 |  |
| Ref. 1143/107 | $2 \times$ Ref. 1145/52 |
| Ref. 1143/108 |  |
| Ref. 1143/109 | $2 \times$ Ref. 1145/53 |
| Ref. 1143/110 |  |
| Ref. 1743/101 | Ref. 1145/53 |
| Ref. 1743/102 |  |
| Ref. 1743/103 | Ref. 1145/54 |
| Ref. 1743/104 |  |
| Ref. 1743/105 |  |
| Ref. 1743/106 |  |
| Ref. 1743/107 | $2 \times$ Ref. 1145/53 |
| Ref. 1743/108 |  |
| Ref. 1743/109 |  |
| Ref. 1743/110 |  |

System wires lead into the boxes through the openings on the sides and bottom of the box.
All openings are shut by removable closures.


## FLUSH-MOUNTING BOXES JOINING PROCEDURE

Two fairlead spacers for joining the boxes are provided with flushmounting boxes Ref. 1145/52-/53-/54 modules.
All the spacers are hollow to allow the passage of wires from one box to the other.


## FLUSH-MOUNTING BOX INSTALLATION PROCEDURE

The spacer Ref. 1143/60 must be fixed to each of the flush-mounting boxes.
A standard sized spacer is provided. For flush-mounting boxes Ref. 1145/52 or Ref. 1145/53, break the spacer along the pre-cutting for correct assembly.


Screws A ( $3.5 \times 16 \mathrm{~mm}$ ) are provided with the spacer.
The box and spacer must be installed flush with the wall without protruding at a height of approximately $1.55 \div 1.60 \mathrm{~m}$ from the floor. The flush-mounting depth of all boxes is equal to 60 mm ( 45 mm for the box +15 mm for the spacer).


## DOOR UNIT INSTALLATION PROCEDURE

Fix the door unit onto the adapter provided with the front panel.


Fix the adapter and fasten the microphone support to the front panel.

$\qquad$

## NAME TAG BACK-LIGHTING LED FASTENING PROCEDURE

Use the template provided with the front panel to fasten the name tag lighting LEDs. Cut all the flush-mounting box columns shown by $>8$ , and then drill at the points indicated by


Fix the spacers to the flush-mounting box and fix the LED circuit to the spacers.

SINGLE LED CIRCUIT


## MULTIPLE LED CIRCUIT



## NAME TAG ASSEMBLY AND FRONT PANEL FASTENING PROCEDURE

Exigo panels are provided with a brass name tag (not engraved) which may be replaced by an engraved brass name tag or an anthracite grey PVC name tag.
Coloured film (each box contains 5 pieces in two colours) may be used to customise the colour of the backlighting:

- Blue

Ref. 1143/51

- Green

Ref. 1143/52

Proceed as shown in the following drawings for fitting the coloured film and the name tags.


Close the panel front using the tamperproof screws provided at the end of the operations:


## PANELS FOR DEDICATED FLUSH-MOUNTING BOXES

This panel range is designed for use in systems from 3 to 20 users. Dedicated flush-mounting boxes are used.
The front panels are arranged for door unit installation. The following models are available
Door phone panels with 1 row of buttons
with 3 calling buttons
Ref. 1121/103
with 4 calling buttons $\qquad$ Ref. 1121/104 with 5 calling buttons Ref. 1121/105 with 6 calling buttons Ref. 1121/106

Door phone panels with 2 rows of buttons
with 4 calling buttons $\qquad$ Ref. 1121/204
with 6 calling buttons Ref. 1121/206
with 8 calling buttons Ref. 1121/208
with 10 calling buttons Ref. 1121/210
with 12 calling buttons Ref. 1121/212
with 14 calling buttons Ref. 1121/214
with 16 calling buttons Ref. 1121/216
with 18 calling buttons
Ref. 1121/218
with 20 calling buttons
Ref. 1121/220
Video door phone panels with 1 row of buttons
with 3 calling buttons
1/103
with 4 calling buttons Ref. 1721/104
with 5 calling buttons Ref. 1721/105
with 6 calling buttons Ref. 1721/106

Video door phone panels with 2 rows of buttons
with 4 calling buttons Ref. 1721/204
with 6 calling buttons Ref. 1721/206
with 8 calling buttons Ref. 1721/208
with 10 calling buttons Ref. 1721/210
with 12 calling buttons Ref. 1721/212
with 14 calling buttons Ref. 1721/214
with 16 calling buttons Ref. 1721/216
with 18 calling buttons Ref. 1721/218
with 20 calling buttons Ref. 1721/220

Fill in the order form and specify the required customisations by using the complete code formed as explained in the "How to form the panel code" paragraph.

## FLUSH-MOUNTING BOXES

A different box than shown in the following table must be used according to the panel model to be installed:

| Front panel code | Flush-mounting <br> box code | Dimensions of <br> flush-mounting box |
| :--- | :---: | :---: |
| Ref. 1121/103 | Ref. 1121/53 | $110 \times 256 \mathrm{~mm}$ |
| Ref. 1121/104 | Ref. 1121/54 | $110 \times 284 \mathrm{~mm}$ |
| Ref. 1121/105 | Ref. 1121/55 | $110 \times 312 \mathrm{~mm}$ |
| Ref. 1121/106 | Ref. 1121/56 | $110 \times 340 \mathrm{~mm}$ |
| Ref. 1121/204 <br> Ref. 1121/206 | Ref. 1121/60 | $186 \times 228 \mathrm{~mm}$ |
| Ref. 1121/208 <br> Ref. 1121/210 | Ref. 1121/62 | $186 \times 284 \mathrm{~mm}$ |
| Ref. 1121/212 | Ref. 1121/64 | $186 \times 312 \mathrm{~mm}$ |
| Ref. 1121/214 | Ref. 1121/65 | $186 \times 340 \mathrm{~mm}$ |
| Ref. 1121/216 | Ref. 1121/66 | $186 \times 368 \mathrm{~mm}$ |
| Ref. 1121/218 | Ref. 1121/67 | $186 \times 396 \mathrm{~mm}$ |
| Ref. 1121/220 | Ref. 1121/68 | $186 \times 424 \mathrm{~mm}$ |
| Ref. 1721/103 | Ref. 1721/53 | $110 \times 340 \mathrm{~mm}$ |
| Ref. 1721/104 | Ref. 1721/54 | $110 \times 368 \mathrm{~mm}$ |
| Ref. 1721/105 | Ref. 1721/55 | $110 \times 396 \mathrm{~mm}$ |
| Ref. 1721/106 | Ref. 1721/56 | $110 \times 424 \mathrm{~mm}$ |
| Ref. 1721/204 | Ref. 1721/60 | $186 \times 312 \mathrm{~mm}$ |
| Ref. 1721/206 | Ref. 1721/61 | $186 \times 312 \mathrm{~mm}$ |
| Ref. 1721/208 | Ref. 1721/62 | $186 \times 340 \mathrm{~mm}$ |
| Ref. 1721/210 | Ref. 1721/63 | $186 \times 368 \mathrm{~mm}$ |
| Ref. 1721/212 | Ref. 1721/64 | $186 \times 396 \mathrm{~mm}$ |
| Ref. 1721/214 | Ref. 1721/65 | $186 \times 424 \mathrm{~mm}$ |
| Ref. 1721/216 | Ref. 1721/66 | $186 \times 452 \mathrm{~mm}$ |
| Ref. 1721/218 | Ref. 1721/67 | $186 \times 480 \mathrm{~mm}$ |
| Ref. 1721/220 | Ref. 1721/68 | $186 \times 508 \mathrm{~mm}$ |

The flushing depth for all boxes is 55 mm .
System wires lead into the boxes through the openings on the bottom of the box.
All openings are shut by removable closures.


## FLUSH-MOUNTING BOX INSTALLATION PROCEDURE

Apply adhesive labels to protect the front panel fastening holes during the embedding operation.


The box must be installed flush with the wall without protruding at a height of approximately $1.55 \div 1.60 \mathrm{~m}$ from the floor.


The wall surface must be flat. Maximum permitted tolerance $=1.5$ mm .

## DOOR UNIT INSTALLATION PROCEDURE

Fix the door unit onto the adapter provided with the front panel:


Move the spacer as shown in the following figures to fit the door units:


2 ROWS OF BUTTONS


1 ROW OF BUTTONS


## NAME TAG BACK-LIGHTING LED CIRCUIT FASTENING PROCEDURE

Proceed as follows to fasten the name tag lighting LEDs:
Fix the spacers to the flush-mounting box and fix the LED circuit to the spacers.


## NAME TAG ASSEMBLY AND FRONT PANEL FASTENING PROCEDURE

Exigo panels are provided with a brass name tag (not engraved) which may be replaced by an engraved brass name tag or an anthracite grey PVC name tag.
Coloured film (each box contains 5 pieces in two colours) may be used to customise the colour of the backlighting:

- Blue

Ref. 1143/51

- Green

Ref. 1143/52

Proceed as shown in the following drawings for fitting the coloured film and the name tags.



Possible coloured film (not included)

Close the panel front using the tamperproof screws provided at the end of the operations:


|  |  | BUTTONS NUMBER |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| FRONT | 1143/101 | 1 |  |  |  |  |  |  |  |  |  |
|  | 1143/102 |  | 1 |  |  |  |  |  |  |  |  |
|  | 1143/103 |  |  | 1 |  |  |  |  |  |  |  |
|  | 1143/104 |  |  |  | 1 |  |  |  |  |  |  |
|  | 1143/105 |  |  |  |  | 1 |  |  |  |  |  |
|  | 1143/106 |  |  |  |  |  | 1 |  |  |  |  |
|  | 1143/107 |  |  |  |  |  |  | 1 |  |  |  |
|  | 1143/108 |  |  |  |  |  |  |  | 1 |  |  |
|  | 1143/109 |  |  |  |  |  |  |  |  | 1 |  |
|  | 1143/110 |  |  |  |  |  |  |  |  |  | 1 |
| DOOR UNIT | 1072/28 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| $\begin{aligned} & \text { EXPANSION } \\ & \text { MODULE } \end{aligned}$ | 1038/17 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| FLUSH- | 1145/52 | 1 | 1 |  |  |  |  | 2 | 2 |  |  |
| MOUNTING | 1145/53 |  |  | 1 | 1 | 1 | 1 |  |  | 2 | 2 |
| SPACER | 1143/60 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
|  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|  |  | BUTTONS NUMBER |  |  |  |  |  |  |  |  |  |



|  |  |  |  | UT | TO | NS | N | M | ER |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|  | 1743/101 | 1 |  |  |  |  |  |  |  |  |  |
|  | 1743/102 |  | 1 |  |  |  |  |  |  |  |  |
|  | 1743/103 |  |  | 1 |  |  |  |  |  |  |  |
|  | 1743/104 |  |  |  | 1 |  |  |  |  |  |  |
| NT | 1743/105 |  |  |  |  | 1 |  |  |  |  |  |
| T | 1743/106 |  |  |  |  |  | 1 |  |  |  |  |
|  | 1743/107 |  |  |  |  |  |  | 1 |  |  |  |
|  | 1743/108 |  |  |  |  |  |  |  | 1 |  |  |
|  | 1743/109 |  |  |  |  |  |  |  |  | 1 |  |
|  | 1743/110 |  |  |  |  |  |  |  |  |  | 1 |
| DOOR UNIT | 1072/28 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| EXPANSION MODULE | 1038/17 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| $\begin{gathered} \hline \text { TV CAMERA UNIT } \\ \text { COLOURS (\#) } \\ \hline \end{gathered}$ | 1810/40 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| TV CAMERA UNIT B/W (\#) | 1810/70 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ADAPTATION DEVICE | 1742/13A | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| FLUSH- | 1145/53 | 1 | 1 |  |  |  |  | 2 | 2 | 2 | 2 |
| MOUNTING | 1145/54 |  |  | 1 | 1 | 1 | 1 |  |  |  |  |
| SPACER | 1143/60 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| (\#) alternatives |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|  |  | BUTTONS NUMBER |  |  |  |  |  |  |  |  |  |



## PUSH BUTTON PANEL EXIGO

 DOOR PHONE SYSTEMS IN DEDICATED BOXES EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

EXIGO PANEL WITH DOOR UNIT AND DIGITISPESH BUTTON PANEL EXIGO - VIDEO DOOR PHONE SYSTEMS IN DEDICATED BOXES

|  |  |  |  |  |  | TT | O | NS | S | UM | MBE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 1 r | W |  |  |  |  |  |  | row |  |  |  |  |
|  |  | 3 | 4 | 5 | 6 | 4 | 6 |  | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
|  | 1721/103 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1721/104 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1721/105 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |
|  | 1721/106 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |
|  | 1721/204 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |
|  | 1721/206 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |
| FRONT | 1721/208 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |
|  | 1721/210 |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |
|  | 1721/212 |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |
|  | 1721/214 |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |
|  | 1721/216 |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |
|  | 1721/218 |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |
|  | 1721/220 |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| DOOR UNIT | 1072/28 | 1 | 1 | 1 | 1 | 1 | 1 |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| $\begin{aligned} & \text { EXPANSION } \\ & \text { MODULE } \end{aligned}$ | 1038/17 | 1 | 1 | 1 | 1 | 1 | 1 |  | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| $\begin{gathered} \text { TV CAMERA UNIT } \\ \text { COLOURS (\#) } \end{gathered}$ | 1810/40 | 1 | 1 | 1 | 1 | 1 | 1 |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| TV CAMERA UNIT B/W (\#) | 1810/70 | 1 | 1 | 1 | 1 | 1 | 1 |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ADAPTATION DEVICE | 1742/13A | 1 | 1 | 1 | 1 | 1 | 1 |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  | 1721/53 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1721/54 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1721/55 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |
|  | 1721/56 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |
|  | 1721/60 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |
|  | 1721/61 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |
| FLUSH- | 1721/62 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |
|  | 1721/63 |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |
|  | 1721/64 |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |
|  | 1721/65 |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |
|  | 1721/66 |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |
|  | 1721/67 |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |
|  | 1721/68 |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| (\#) alternatives |  | 3 | 4 | 5 | 6 | 4 | 6 |  | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
|  |  | 1 row |  |  |  | 2 rows |  |  |  |  |  |  |  |  |  |
|  |  | BUTTONS NUMBER |  |  |  |  |  |  |  |  |  |  |  |  |  |




12

14

18

20





## APARTMENT DOOR PHONES STATION

## Download from www.urmetdomus.com Technical Manuals area.

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[^1]BASIC DOOR PHONE Mod. ATLANTICO
Ref. $1172 / 40$

## PERFORMANCE

- Operation in 2nd edition systems only.
- Conversation privacy function (single integrated decoder).
- Two-tone door phone call.
- Door opener button (A).
- Staircase light button or auxiliary service (T2).
- Switchboard call button (T1).

Up to 2 door phones can be connected in parallel.
The Ref. 1172/40 model will not ring for floor call service if installed in parallel to a door phone.

## DESCRIPTION OF TERMINAL BOARDS

L1 Bus connection (not polarised)
L2 Bus connection (not polarised)

## TECHNICAL SPECIFICATIONS

Stand-by consumption:
Active voice consumption:
Working temperature range:
Humidity:
1.6mA max. 60mA max. $-5+45^{\circ} \mathrm{C}$ $90 \%$ RH at $30^{\circ} \mathrm{C}$

## PROGRAMMING

Go to the apartment, press the door opener button and pick up the door phone handset after setting up the door phone booking sequence on the call station or concierge switchboard.
Release the door opener button and hang up.
The door phone will sound to indicate that it has been programmed.

## OPERATION

The door opener button will operate the lock in the following cases:

- For the entire conversation time.
- Without hanging up for the programmed off-hook waiting time.

Calls can also be placed to the concierge in systems with switchboard.
Pick up the handset and press the concierge call button. Conversation with the switchboard will be established if the switchboard answers within 10 seconds and the door phone line is free. Otherwise, hang up and try again later. The switchboard will store the call (if the device is on) in this case.

## DOOR PHONE WITH MULTIPLE RINGER TONES AND MUTE FUNCTION Ref. 1172/45




## PERFORMANCE

- Works in 2nd Edition systems only.
- Conversation privacy function (single integrated decoder).
- Possibility of selecting one of six door phone ringer tones.
- Possibility of selecting one of six floor call ringer tones.
- Supplementary speaker for floor call and door phone call.
- Door opener button (A).
- Staircase light button (T2)
- Switchboard call button (T1).
- Configuration function button (T3).
- Visual call in progress signal.
- Door open indication (if service is active).
- "Automatic door opener" function with visual indication.
- Two-position door unit call volume.
- Ringer mute function with visual indication by means of LED (slow blinking).
- Supplementary ringer Ref. 1072/59 control.


## DESCRIPTION OF TERMINAL BOARDS

L1 Bus connection (not polarised)
L2 Bus connection (not polarised)
C1 Floor call button input
C2 Floor call button input
S+ Supplementary ringer control positive
S- Supplementary ringer control negative

## TECHNICAL SPECIFICATIONS

Stand-by consumption:
Active voice consumption:
Working temperature range:
Humidity:
Supplementary ringer control:

## PROGRAMMING

Go to the apartment, press the door opener button and pick up the door phone handset after setting up the door phone booking sequence on the call station or concierge switchboard.
Release the door opener button and hang up.
The door phone will sound to indicate that it has been programmed.

[^2]DOOR PHONE WITH MULTIPLE RINGER TONES/MUTE FUNCTION Ref. 1172/45
OPERATION
a) Book door phones on calling station as usual and go to the first booked user.
b) Press the floor call button; the door phone tone will be heard after programming.
c) Wait for five seconds and press the floor call button; the door phone (if programmed) will output the floor call tone.
d) Go to other users and repeat procedure from point b).

## OPERATION

The door phone can generate six different calling tones. The LED will blink to visually confirm selection. The LED (L) will light up fixed to indicate that one or more main input doors or the respective secondary door is open (where the service is activated only).
The door opener button will operate the lock in the following cases:

- For the entire conversation time.
- Without hanging up for the programmed off-hook waiting time.

Calls can be made to the concierge in systems with concierge phone or switchboard.

CONCIERGE CALLSIN 2ND EDITION SYSTEMSWITH CONCIERGE SWITCHBOARD

Lift the handset and press the concierge call button (T1).
Nothing will happen if the switchboard is off. Conversely, the door phone will beep and the call will be sent if the switchboard is on. Two possibilities may occur:

1. The switchboard answers within 10 s or the door phone line is free: a conversation with the switchboard is established.
2. The switchboard does not answer within 10 s or the door phone line is busy: the switchboard stores the call and the LED on the door phone will flash after the 10s time-out. Hang up and wait for the switchboard operator to return the call.

## CONCIERGE CALLSIN 2ND EDITION SYSTEMSWITH CONCIERGE

 DOOR PHONELift the handset and press the concierge call button (T1). Nothing will happen if the door phone is off. Conversely, the concierge door phone will beep and the call will be sent if the concierge door phone is on.
Two possibilities may occur:

1. The concierge answers within 10 s or the door phone line is free: a conversation with the concierge is established.
2. The concierge does not answer within 10 s or the line is busy: the door phone LED will flash after the 10s time-out. Hang up and try again later.

## SELECTING CALLING TONES

The door phone is equipped with six two-tone calling tones each lasting 3 seconds. The door phone calling tone and the floor calling tone can be selected as follows:
Door phone call: Hold the configuration button pressed (T3) and press the "staircase lights" button (T2): the door phone will play the six tones in sequence. Simply release the configuration button when the required tone is playing.
Floor call: Hold the configuration button pressed (T3) and press the "door phone switchboard call" button (T1): the door phone will play the six tones in sequence. Simply release the configuration button when the required tone is playing.

## AUTOMATIC DOOR OPENER

This function is used to open the door automatically following a call. Hold the configuration button pressed (T3) and press the door opener button (A) to switch the function on and off; a confirmation tone will be heard and the LED (L) will blink quickly when the door opener button is switched on and off.
The LED will blink quickly when the function is on.

ADJUSTABLE CALL VOLUME
Hold the door opener button (A) pressed and press the "staircase light" button (T2). The volume will be adjusted in the Mute - Low Loud sequence each time the button is pressed. The LED (L) will blink slowly when the ringer is muted.

## DOOR PHONE ATLANTICO Mod. WITH VOLUME ADJUSTMENT AND MUTE FUNCTION

Ref. 1172/42


## PERFORMANCE

- Operation in 2nd edition systems only.
- Conversation privacy function (single integrated decoder)
- Two-tone door phone call.
- Door opener button (A).
- Staircase light button or auxiliary service (T2).
- Concierge call button (T1)
- Two-position door unit call volume.
- Ringer mute function with visual indication.

Up to 2 door phones can be connected in parallel.
The Ref.1172/42 model will not ring for floor call service if installed in parallel to a door phone.

## DESCRIPTION OF TERMINAL BOARDS

L1 Bus connection (not polarised)
L2 Bus connection (not polarised)

## TECHNICAL SPECIFICATIONS

Stand-by consumption: Active voice consumption: Working temperature range: Humidity:
1.6mA max 60mA max $-5+45^{\circ} \mathrm{C}$ $90 \%$ RH at $30^{\circ} \mathrm{C}$

## PROGRAMMING

Go to the apartment, press the door opener button and pick up the door phone handset after setting up the door phone booking sequence on the call station or concierge switchboard.
Release the door opener button and hang up.
The door phone will sound to indicate that it has been programmed.

## OPERATION

The door opener button will operate the lock in the following cases:

- For the entire conversation time.
- Without hanging up for the programmed off-hook waiting time.

Calls can be made to the concierge in systems with concierge phone or switchboard.
Pick up the handset and press the concierge call button. Conversation with the switchboard will be established if the switchboard answers within 10 seconds and the door phone line is free. Otherwise, hang up
and try again later. The switchboard will store the call (if the device is on) in this case.

ADJUSTING CALL VOLUME


## DOOR PHONE Mod. ATLANTICO INSTALLATION

WALL VERSION


To remove the cover of the door phone, insert the tip of a screwdriver in the area indicated and apply pressure. Extract the cover rotating this on the upper tabs.


The door phone can be fitted on the wall using the different holes on the base and the special plugs and screws provided with each set.
L. Fasten the door phone to the wall with the bolts provided for flush-mounting in Mod. 503 boxes.

Refit the door phone top after installation.


## TABLETOP VERSION

The Mod. Atlantico door phone may be tabletop mounted. For this purpose, purchase a specific white tabletop transformation kit Ref. 1133/50 with socket.


Assembly operations:

- Remove the door phone hood.
- Insert the wire through the tabletop stand and the door phone.

- Insert the adhesive rubbers provided under the tabletop stand under the door phone base in the specific housings.
- Apply the tabletop stand to the base of the door phone and arrange the wires in the specific housing.
- Connect the wires to the door phone terminal board.
- Close the door phone hood.
- Connect the system wires to the corresponding socket terminals.



## BASIC DOOR PHONE Mod. UTOPIA Ref. 1172/44



## PERFORMANCE

- Operation in 2nd edition systems only.
- Conversation privacy function (single integrated decoder).
- Supplementary speaker for floor call and door phone call.
- Door opener button (A).
- Staircase light button (T2).
- Concierge call button (T1).
- Configuration function button (T3).
- Visual call in progress signal.
- Door open indication (if service is active).
- "Automatic door opener" function with visual indication.
- External two-position door unit call volume.
- Ringer mute function with visual indication by means of LED (slow blinking).


## DESCRIPTION OF TERMINAL BOARDS

L1 Bus connection (not polarised)
L2 Bus connection (not polarised)
C1 Floor call button input
C2 Floor call button input

## TECHNICAL SPECIFICATIONS

Stand-by consumption:
Active voice consumption:
Working temperature range:
Humidity:
1.6mA max 60mA max
$90 \%$ RH at $30^{\circ} \mathrm{C}$

## PROGRAMMING

Go to the apartment, press the door opener button and pick up the door phone handset after setting up the door phone booking sequence on the call station or concierge switchboard.
Release the door opener button and hang up.
The door phone will sound to indicate that it has been programmed.
The following method can be used to program the door phones without accessing each apartment if no door phones have been programmed and if the system is set up for floor call function:
a) Book door phones on calling station as usual and go to the first booked user.
b) Press the floor call button; the door phone tone will be heard after programming.
c) Wait for five seconds and press the floor call button; the door phone (if programmed) will output the floor call tone.
d) Go to other users and repeat procedure from point b).

## OPERATION

The door opener button will operate the lock in the following cases:

- For the entire conversation time.
- Without hanging up for the programmed off-hook waiting time.

Calls can be made to the concierge in systems with concierge phone or switchboard.

The door phone can generate six different calling tones. The LED will blink to visually confirm selection.

The LED $(\mathrm{L})$ will light up fixed to indicate that one or more main input doors or the respective secondary door is open (where the service is activated only).

## CONCIERGE CALLSIN 2ND EDITIONSYSTEMS WITH CONCIERGE SWITCHBOARD

Lift the handset and press the concierge call button (T1).
Nothing will happen if the switchboard is off. Conversely, the door phone will beep and the call will be sent if the switchboard is on. Two possibilities may occur:

1. The switchboard answers within 10 s or the door phone line is free: a conversation with the switchboard is established.
2. The switchboard does not answer within 10s or the door phone line is busy: the switchboard stores the call and the LED on the door phone will flash after the 10s time-out. Hang up and wait for the switchboard operator to return the call.

## CONCIERGE CALLSIN 2ND EDITION SYSTEMS WITH CONCIERGE DOOR PHONE

Lift the handset and press the concierge call button (T1). Nothing will happen if the door phone is off. Conversely, the concierge door phone will beep and the call will be sent if the concierge door phone is on. Two possibilities may occur:

1. The concierge answers within 10 s or the door phone line is free: $a$ conversation with the concierge is established.
2. The concierge does not answer within 10 s or the line is busy: the door phone LED will flash after the 10s time-out. Hang up and try again later.

## AUTOMATIC DOOR OPENER

This function is used to open the door automatically following a call. Hold the configuration button pressed (T3) and press the door opener button $(A)$ to switch the function on and off; a confirmation tone will be heard and the LED (L) will blink quickly when the door opener button is switched on and off.
The LED will blink quickly when the function is on.

## ADJUSTING CALL VOLUME

Hold the door opener button $(A)$ pressed and press the "staircase light" button (T2). The volume will be adjusted in the Mute - Low Loud sequence each time the button is pressed. The LED ( L ) will blink slowly when the ringer is muted.

DOOR PHONE Mod. UTOPIA WITH MULTIPLE RINGER TONES AND MUTE FUNCTION Ref. 1172/46


## PERFORMANCE

- Works in 2nd Edition systems only.
- Conversation privacy function (single integrated decoder).
- Possibility of selecting one of six door phone ringer tones.
- Possibility of selecting one of six floor call ringer tones.
- Supplementary speaker for floor call and door phone call.
- Door opener button (A).
- Staircase light button (T2).
- Switchboard call button (T1).
- Configuration function button (T3).
- Visual call in progress signal.
- Door open indication (if service is active).
- "Automatic door opener" function with visual indication.
- Two-position door unit call volume.
- Ringer mute function with visual indication by means of LED (slow blinking).
- Supplementary ringer Ref. 1072/59 control.


## DESCRIPTION OF TERMINAL BOARDS

L1 Bus connection (not polarised)
L2 Bus connection (not polarised)
C1 Floor call button input
C2 Floor call button input
S+ Supplementary ringer control positive
S- Supplementary ringer control negative

## TECHNICAL SPECIFICATIONS

Stand-by consumption: Active voice consumption:
Working temperature range:
Humidity:
1.6mA max. 60mA max. $-5+45^{\circ} \mathrm{C}$

Supplementary ringer control:
$V$ max $=30 \mathrm{Vdc}$ I max=40mAdc

## PROGRAMMING

Go to the apartment, press the door opener button and pick up the door phone handset after setting up the door phone booking sequence on the call station or concierge switchboard.
Release the door opener button and hang up.
The door phone will sound to indicate that it has been programmed.

0The following method can be used to program the door phones without accessing each apartment if no door phones have been programmed and if the system is set up for floor call function:
a) Book door phones on calling station as usual and go to the first booked user.
b) Press the floor call button; the door phone tone will be heard after programming.
c) Wait for five seconds and press the floor call button; the door phone (if programmed) will output the floor call tone.
d) Go to other users and repeat procedure from point b).

## OPERATION

The door phone can generate six different calling tones. The LED will blink to visually confirm selection. The LED will light up fixed to indicate that one or more main input doors or the respective secondary door is open (where the service is activated only).
The door opener button will operate the lock in the following cases:

- For the entire conversation time.
- Without hanging up for the programmed off-hook waiting time.

Calls can be made to the concierge in systems with concierge phone or switchboard.

## CONCIERGE CALLSIN2ND EDITIONSYSTEMS WITH CONCIERGE SWITCHBOARD

Lift the handset and press the concierge call button (T1).
Nothing will happen if the switchboard is off. Conversely, the door phone will beep and the call will be sent if the switchboard is on. Two possibilities may occur:

1. The switchboard answers within 10s or the door phone line is free: a conversation with the switchboard is established.
2. The switchboard does not answer within 10s or the door phone line is busy: the switchboard stores the call and the LED on the door phone will flash after the 10s time-out. Hang up and wait for the switchboard operator to return the call.

## CONCIERGE CALLSIN 2ND EDITION SYSTEMS WITH CONCIERGE

 DOOR PHONELift the handset and press the concierge call button (T1).
Nothing will happen if the door phone is off. Conversely, the concierge door phone will beep and the call will be sent if the concierge door phone is on.
Two possibilities may occur:

1. The concierge answers within 10 s or the door phone line is free: a conversation with the concierge is established.
2. The concierge does not answer within 10s or the line is busy: the door phone LED will flash after the 10s time-out. Hang up and try again later.

## SELECTING CALLING TONES

The door phone is equipped with six two-tone calling tones each lasting 3 seconds. The door phone calling tone and the floor calling tone can be selected as follows:
Door phone call: Hold the configuration button pressed (T3) and press the "staircase lights" button (T2): the door phone will play the six tones in sequence. Simply release the configuration button when the required tone is playing.
Floor call: Hold the configuration button pressed and press the "door phone switchboard call" button (T1): the door phone will play the six tones in sequence. Simply release the configuration button (T1) when the required tone is playing.

## Automatic door opener

This function is used to open the door automatically following a call. Hold the configuration button pressed (T3) and press the door opener button (A) to switch the function on and off; a confirmation tone will be
heard and the LED (L) will blink quickly when the door opener button is switched on and off.
The LED will blink quickly when the function is on.

## ADJUSTABLE CALL VOLUME

Hold the door opener button (A) pressed and press the "staircase light" button (T2). The volume will be adjusted in the Mute - Low Loud sequence each time the button is pressed. The LED (L) will blink slowly when the ringer is muted.

## INSTALLATION

WALL VERSION


To remove the cover of the door phone, insert the tip of a screwdriver in the area indicated and apply pressure. Extract the cover rotating this on the upper tabs.


The door phone can be fitted on the wall using the different holes on the base and the special plugs and screws provided with each set. For correct fastening to the wall, use the holes shown in the following drawing:


WALL-MOUNTED VERSION ON FLUSH-MOUNTING BOX Mod. 503

For installation on flush-mounting box Mod. 503 proceed as follows: - Remove the loudspeaker.


- Fasten the door phone on the flush-mounting box 503. For correct fastening on box 503, use the holes shown in the following drawing:



L
For this type of installation, besides fastening the door phone to the flush-mounting box, it must be fastened to the wall with the screws and plugs provided.

Refit the loudspeaker and the door phone top after installation.


## TABLETOP VERSION

The Mod. Utopia door phone may be tabletop mounted. For this purpose, purchase a specific tabletop transformation kit Ref. 1134/50 with socket.

Proceed as follows to assemble the door phone on the support:

- Remove the door phone hood.
- Insert the wire through the tabletop stand and the door phone.
- Screw the base to the support.
- Connect the wires to the door phone terminal board.
- Close the door phone hood.
- Connect the system wires to the corresponding socket terminals.



## APARTMENT VIDEO DOOR PHONE STATIONS

## Download from www.urmetdomus.com Technical Manuals area.

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## ATLANTICO BLACK AND WHITE VIDEO DOOR PHONE



The Atlantico video door phone implements an electronic call system and can be used in Bibus 2nd Ed. VOP systems when equipped with the specific bracket.
The call volume (to dedicated speaker) can be adjusted in linear fashion and muted.
The video door phone is easy to install because no masonry work is needed and all connections are made to the bracket on which the video door phone will eventually be fastened. The handset connection is particularly ergonomic. A simple telephone plug is used.
The door opener button by the side of the handset is lit up when the monitor is on.
The Atlantico video door phone has innovative simple, essential designed fashioned by Michele De Lucchi and is available in 3 version.

- White colour

Ref. 1702/1

- Anthracite colour Ref. 1702/41 Ref. 1702/42

The front mask colour can be changed with the kit Ref. 1702/50 to suit the video door phone for all architectural contexts.


The video door phone Ref. 1702/17 is set up to a speaker capable interfacing with hearing aids by means of the "T" function.

## SPECIFICATIONS

The main characteristics of the video door phone are:

- Flat 4" black and white video module.
- Adjustable and mutable call volume. The adjustment wheel appears red when the volume is muted.
0
When volume is set to "MUTE" the video door phone will not ring but the video module will light up.
- Door opener button is lit up and green when video module is on.
- Service buttons ( $\diamond$ and $\bigcirc$ ) for activating, for example, supplementary electrical locks, staircase lights, monitor auto-on function, etc.
- Adjustable brightness and contrast.



## TECHNICAL SPECIFICATIONS

- Power voltage:
$16 \div 18,5 \mathrm{Vdc}$
$\max 0,35 \mathrm{~A}$
- Working uptake:

OA

- Stand-by:
- Working power:
max 6,5W
- CCIR version

Vertical frequency: Horizontal frequency:

- Video signal:
- Kinescope
- Phosphorous:
- Screen size:
- Geometric distorsion:
- Brightness:
- X-rays:
- Switch-on delay:
- Transmitting capsule:
- Receiving capsule:
- Button voltage:
- Button current:
- Operating temperature range:
- Max. humidity:
$50 \mathrm{~Hz} \pm 2 \mathrm{~Hz}$
$15625 \pm 300 \mathrm{~Hz}$
1Vpp $75 \Omega$ nominal 1Vpp. -6dB minimum

4" flat 13mm neck
P45
$81 \times 59 \mathrm{~mm}$ vertical 5\% max.
horizontal 5\% max. barrel 10\% max. $170 \mathrm{~cd} / \mathrm{m}^{2}$ max. setting
none
4 sec. max.
electret microphone $45 \Omega$ speaker 24Veff. max

1,2Aeff.
$-5^{\circ} \div+50^{\circ} \mathrm{C}$
90\%RH

## ATLANTICO COLOUR VIDEO DOOR PHONE Ref. 1702/40



The Atlantico video door phone is a colour apartment station which can be used in Bibus 2nd Ed. VOP systems when equipped with the specific bracket.
As the black and white version, also this model has adjustable call tone volume and muting functions.
The video door phone is easy to install because no masonry work is needed and all connections are made to the bracket on which the video door phone will eventually be fastened. The handset connection is particularly ergonomic. A simple telephone plug is used.
The video door phone is only white but the front part can be customised by replacing the standard frame (blue) with one of the five frames from the Ref. 1702/50 kit.


The video door phone Ref. 1702/47 is set up to a speaker capable interfacing with hearing aids by means of the "T" function.

## SPECIFICATIONS

The main characteristics of the video door phone are:

- Flat 4" LCD colour module.
- Adjustable and mutable call volume. The adjustment wheel appears red when the volume is muted.

5 When volume is set to "MUTE" the video door phone will not ring but the video module will light up.

- Door opener button is lit up and green when video module is on.
- Service buttons ( $>$ and $\bigcirc$ ) for activating, for example, supplementary electrical locks, staircase lights, video door phone auto-on function, etc.
- Adjustable brightness and colour.



## TECHNICAL SPECIFICATIONS

- Power voltage:
$16 \div 18.5 \mathrm{Vdc}$
- Working uptake:
max. 0.35A
- Stand-by:
- Working power:
max. 6.5W
$50 \mathrm{~Hz} \pm 2 \mathrm{~Hz}$
$15625 \pm 300 \mathrm{~Hz}$ 1Vpp $75 \Omega$ nominal 1Vpp-6 dB minimum

4" back-lit
81 X 59mm
$380 \mathrm{H} \times 250 \mathrm{~V}$ pixel
PAL
4 sec. max.
electret microphone
$45 \Omega$ speaker 24Veff. max.
1.2Aeff
$-5^{\circ} \div+50^{\circ} \mathrm{C}$ 90\% RH

## ATLANTICO BRACKETS Ref. 1202/954



Atlantico video door phone are provided without fastening bracket which must be purchased separately.

- Bracket for Bibus II^ ed. VOP systems

Ref. 1202/954
The following functions are offered by using brackets Ref. 1202/954 in combination with Atlantico video door phones:

- Non-polarised video input.
- Video connection with floor distributor Ref. 1074/54.
- In/out video connection.
- Possibility of connecting an additional video door phone.
- Privacy function.
- 6 two-tone ringers (the installer can select the door phone call and floor call tones).


## BRACKET TERMINALS

| VPI | VOP signal input |
| :---: | :---: |
| VPU | VOP signal input |
| VPU | (for in-out or parallel video door phone connection) |
| L1 | Door phone bus |
| C1 | Floor call |
| S+ S- | Call repeat wires |

Important: Never fit the video terminal resistors.

## TECHNICAL SPECIFICATIONS

- Max. VPI uptake with video door phone fitted: 450mA
- Stand-by uptake (L1, L2):
1.6mA max.
- Temperature: $-5 \div+45^{\circ} \mathrm{C}$


## INSTALLATION

The device can be wall-mounted (on a bracket) or rested on a horizontal surface by using the specific tabletop stand in addition to the bracket.

## WALL-MOUNTED VERSION

1) Arrange the duct so that it ends in correspondence with one of the input holes.
2) Fasten the bracket to the wall at the height from the floor shown by means of the four screws.
3) Set the switch (on back of video door phone) to position "B" before fitting the video door phone.

4) Connect the wires to the specific terminals
5) Extract the retainer hook $\mathbf{A}$ by inserting the tip of a screwdriver and pulling the hook downwards.
6) Fasten the video door phone to the bracket as shown in the figure.
7) Fasten the video door phone by pushing the retainer hook $\mathbf{A}$ upwards.


## TABLETOP VERSION

Atlantico can be table-mounted using the specific kit Ref. 1702/92 containing: one tabletop stand, one socket and one cord.

Proceed as follows:

1) Insert the wire from the junction box through the rear hole of the support and fasten it using the U-bolt and the screw provided.
2) Connect the junction box wires to the specific terminals on the bracket.
3) Set the switch (on the video door phone rear) on position $\mathbf{B}$.

4) Extract the retainer hook $\mathbf{A}$ from the video door phone.
5) Fit the video door phone on the bracket and fasten it by pushing the hook A up.
6) Connect the system wires to the corresponding socket terminals.

4
Consider the following correspondence between terminals when using the table mounting kit in Bibus 2nd edition VOP systems:

Table mounting kit Ref. 1702/92

R1.. $\qquad$ $\xrightarrow{\rightarrow}$

## Bracket

 Ref. 1202/954 ..VPIR2.
$\qquad$ ..$\rightarrow$
$\qquad$ ..VPI
$\times 1$. $\qquad$ $\rightarrow$
$\qquad$ ... L1
$\qquad$
Y2 ................... $\rightarrow$.......................C2 $\rightarrow$
$\qquad$ . L2

Important: The table mounting kit Ref. 1702/92 may be used for installing video door phones without in/out connection to other devices.


## PROGRAMMING

The procedure for programming video door phone user codes is the same as for Bibus 2nd edition door phones. Go to the apartment, press the door opener button and pick up the video door phone handset after setting up the video door phone booking sequence on the call station or concierge switchboard.
Release the video door opener button and hang up.
The door phone will sound to indicate that it has been programmed.

## RINGER PROGRAMMING



1. Release the video door phone from the bracket.
2. Move jumper W1 from position "a" to position "b".
3. Re-fasten the video door phone.
4. Press the auxiliary service button. The door phone tone will change each time the button is pressed. Go to the next step once the ringer has been selected.
5. Press the concierge call button. The floor call ringer will change each time the button is pressed. Go to the next step once the ringer has been selected.
6. Release the video door phone from the bracket.
7. Return jumper W1 to position "a".
8. Re-fasten the video door phone.

## PARALLEL VIDEO DOOR PHONE INSTALLATION

A configuration of up to two video door phones in parallel can be obtained without the addition of local power units (refer to the VOP 1074/20 video power unit instruction booklet for wiring). A door phone with additional self-powered ringer may be added to the two video door phones in parallel.
Operation is described below. Both video door phones (and the door phone connected in parallel where relevant) ring when a call is received but only the "master" video door phone (i.e. the one connected directly to the column or to the VOP extension) will light up.
The picture can be seen on the video door phone which is off from this time until the programmed call station off-hook time-out (typically 40 seconds) by pressing the concierge call button without picking up the handset.
The handset of either of the two video door phones can be picked up to establish a communication with the door unit and definitely capture the picture.
$\$$ The floor call button must be connected to a single video door phone.

## AUTO-ON

Video or audio/video auto-on from the MAIN station 1 is possible. With the door phone standing by, press the concierge call button without picking up the handset. Nothing will happen if the main station 1 has either a conversation in progress or is busy; otherwise, the video door phone will ring and the video door phone will light up. The door can be opened and a voice connection can be established by picking up the handset within the off-hook time-out (typically 40 seconds).

## COLOURED MASK KIT

The video door phone can be customised by replacing the front mask and add-on name tag with those contained in the Ref. 1702/50 kit.
The kit contains masks and cards of the following colours:

- Yellow
- Pink
- Grey
- Green
- Blue

(C)

(D)

(E)


Other media, such as photographs or wall paper, can be used to customise the video door phone instead of the Ref. 1702/50 kit. In this case, use one of the frames provided as a template to trace the exact installation profile.

ARTICO VIDEO DOOR PHONE Ref. 1705/1
UPIIEL
SPECIFICATIONS - TECHNICAL FEATURES

## ARTICO VIDEO DOOR PHONE Ref. 1705/1



Artico offers the most modern technology applied to picture display and the best quality/price ratio. These features make the video door phone suitable for normal communication needs and security applications in video door phone systems.
Thanks to the use of a functional flat 4" screen which reduces the protrusion from the wall, Artico can be installed on the wall without the need for masonry work.
Connection of this video door phone are also simple and rapid, thanks to the terminal board arranged on the dedicated bracket.


The video door phone Ref. 1705/17 is set up to a speaker capable interfacing with hearing aids by means of the " T " function.

## SPECIFICATIONS

The main characteristics of the video door phone are:

- Flat 4" LCD black and withe video module.
- Adjustable and mutable call volume. The adjustment wheel appears red when the volume is muted.

- Door opener button dedicated.
- One service button $(\diamond)$ which can be used, for example, to switch on the staircase lights or open an additional lock.
- One button for calling the concierge station and auto-on ( $\bigcirc$ ): Door unit: pick up the handset and press the button. Auto-on: press the button without picking up the handset.
- Two potentiometers for adjusting picture brightness and contrast.


A Door opener button.
B1 Auxiliary button: used for special functions.
B2 Auxiliary button: used for calling the concierge station and autoon.
C Contrast adjustment control.
D Brightness adjustment control.
E Call volume control and adjustment: turn the knob as far as it will go (red part visible) to mute the call tone ("MUTE" function).

## TECHNICAL FEATURES

| Power voltage: | $16 \div 18,5 \mathrm{Vdc}$ |
| :---: | :---: |
| Working uptake: | max 0,6A |
| Working power: | max 10W |
| CCIR Version Vertical frequency: | $50 \mathrm{~Hz} \pm 2 \mathrm{~Hz}$ |
| Horizontal frequency: | $15625 \pm 300 \mathrm{~Hz}$ |
| Video signal: | 1 Vpp $75 \Omega$ nominal 1Vpp -6dB minimum |
| Kinescope: | 4" tipo FLAT 20 mm neck |
| Phosphorous: | P45 |
| Geometric distorsion: | vertical 5\% max |
|  | horizontal 5\% max barrel 10\% max |
| Brightness: | $>100 \mathrm{~cd} / \mathrm{m}^{2}$ max. setting |
| X-rays: | none |
| Switch-on delay: | 7 sec. max |
| Transmitting capsule: | electret microphone |
| Receiving capsule: | speaker $45 \Omega$ |
| Button voltage: | 24Veff. max |
| Button current: | 1,2Aeff |
| Operating temperature range: | $-5^{\circ} \div+50^{\circ} \mathrm{C}$ |
| Max. humidity: | 90\% UR |

ARTICO VIDEO DOOR PHONE Ref. 1705/1
ARTICO BRACKETS Ref. 1705/954-INSTALLATION PROGRAMMING

## ARTICO BRACKETS Ref. 1705/954



Artico video door phone is provided without fastening bracket which must be purchased separately.

- Bracket for Bibus II^ ed. VOP systems

Ref. 1705/954
The following functions are offered by using Ref. 1705/954 brackets in combination with Artico monitors:

- Non-polarised video input.
- Video connection with floor distributor Ref. 1074/54.
- In/out video connection.
- Possibility of connecting an additional monitor.
- Privacy function.
- 6 two-tone ringers (the installer can select the door phone call and floor call tones).


## BRACKET TERMINALS

\(\left.$$
\begin{array}{ll}\left.\begin{array}{ll}\text { VPI } \\
\text { VPI }\end{array}
$$\right\} \& VOP signal input <br>
VPU <br>

VPU\end{array}\right\}\)| VOP signal input |
| :--- |
| (for in-out or parallel video door phone connection) |

Important: Never fit the video terminal resistors.

## TECHNICAL SPECIFICATIONS

- Max. VPI uptake with monitor fitted:

700mA

- Stand-by uptake (L1, L2): 1.6mA max.
- Temperature:


## INSTALLATION

Arrange the duct so that it ends in correspondence with the input hole on the bracket and proceed as follows:
1 Fasten the bracket to the wall at the height from the floor shown by means of the four screws.
2 Connect the wires to the specific terminals.
3 Set the switch (on back of monitor) to position "B" before fitting the monitor.


4 Extract the retainer hook $\mathbf{A}$ by inserting the tip of a screwdriver and pulling the hook downwards.
5 Fasten the monitor to the bracket.
6 Fasten the monitor by pushing the retainer hook $\mathbf{A}$ upwards.


## PROGRAMMING

The procedure for programming video door phone user codes is the same as for Bibus 2nd edition door phones. Go to the apartment, press the door opener button and pick up the video door phone handset after setting up the video door phone booking sequence on the call station or concierge switchboard.
Release the video door opener button and hang up.
The door phone will sound to indicate that it has been programmed.

## RINGER PROGRAMMING



1. Release the monitor from the bracket.
2. Move jumper W1 from position "a" to position "b".
3. Re-fasten the monitor.
4. Press the auxiliary service button. The door phone tone will change each time the button is pressed. Go to the next step once the ringer has been selected.
5. Press the concierge call button. The floor call ringer will change each time the button is pressed. Go to the next step once the ringer has been selected.
6. Release the monitor from the bracket.
7. Return jumper W1 to position "a".
8. Re-fasten the monitor.

## PARALLEL MONITOR INSTALLATION

A configuration of up to two video door phones in parallel can be obtained without the addition of local power units (refer to the VOP Ref. 1074/20 video power unit instruction booklet for wiring). A door phone with additional self-powered ringer may be added to the two video door phones in parallel.


SCAITEL BLACK AND WHITE VIDEO MODULE Ref. 1732/1


The Scaitel video module Ref. 1732/1 has a 4" flat screen black and white monitor and can be used in combination with switchboards Ref. 1072/42 so that the operator can see visitors.

## SPECIFICATIONS

Available in matte white plastic (ABS) only, the device is equipped with two potentiometers for adjusting picture brightness (\%) and contrast ( $\left.{ }^{( }\right)$.


The video module can be installed to the wall by means of a bracket with connector and terminal board.
The monitor can be table-mounted using a specific transformation kit.

TECHNICAL SPECIFICATIONS
$\left.\begin{array}{lrr}\text { Power: } & & 16 \div 18.5 \mathrm{Vdc} \\ \text { Consumption: } & & 0.35 \mathrm{~A} \text { max. working } \\ \text { OmA stand-by }\end{array}\right\}$

## SCAITEL COLOUR VIDEO MODULE Ref. 1732/41



The Scaitel colour video module Ref. 1732/41 can be exclusively combined to a switchboard so that concierge personnel can see visitors.

## SPECIFICATIONS

Available in matte white plastic (ABS) only, the device is equipped with two potentiometers for adjusting picture brightness (ぬ) and colour ( $\left.{ }^{( }\right)$.


The monitor (basic or with add-on modules) can be table-mounted using a specific transformation kit.

## TECHNICAL SPECIFICATIONS

| Power voltage: Working uptake |  | $16 \div 18.5 \mathrm{Vdc}$ |
| :---: | :---: | :---: |
|  | working: | 0.35A max. |
|  | stand-by: | OmA |
| Working Power: | 6.5W max |  |
| CCIR version: | Vertical frequency: | $50 \mathrm{~Hz} \pm 2 \mathrm{~Hz}$ |
|  | Horizontal frequency: | $15625 \pm 400 \mathrm{~Hz}$ |
| Resolution: |  | 480H x 234V |
| Video input: 1Vpp-750h |  | 1Vpp -6dB min. |
| Kinescope: |  | 4" TFT |
| Colour system: |  | PAL |
| Screen size: |  | $81 \times 59 \mathrm{~mm}$ |
| Working temperature range: |  | $-5+45^{\circ} \mathrm{C}$ |
| Storage temperature range: |  | $-20+60^{\circ} \mathrm{C}$ |
| Humidity: |  | 90\% RH max |

## SCAITEL VIDEO MODULE BRACKET Ref. 1732/957



4 The bracket can be used either with colour and black and white video door phone.

## BRACKET TERMINALS

R1 Monitor power negative
R2 Monitor power positive
RD Parallel monitor power *
OV Control signal ground
CV Video module control signal (from switchboard)
AS Additional video module video signal negative
BS Additional video module video signal positive
AO Video signal negative passing output
BO Video signal positive passing output
AI Input video signal negative
BI Input video signal positive

* System configuration must include a suitably dimensioned power unit.


## INSTALLATION

## WALL-MOUNTED VERSION

Proceed as follows to fasten the video module only:

- Arrange the duct so that it ends in correspondence with the input hole.
- Fasten the bracket to the wall at the height from the floor shown by means of bolts
- Connect the wires to the specific terminals.
- Set the correct distance between bracket and camera with the dip switches.

- Extract the stop bolt A.
- Fasten the monitor to the bracket and lock the device by pushing the bolt "A" inwards.



## TABLE MOUNTED KIT FOR SCAITEL MONITOR Ref. 1732/56

Use the tabletop transformation kit Ref. 1732/56.
Proceed as follows:

- Insert the four adhesive rubbers provided in the housings under the base of the table mounting stand.
- Break the base of only one of the three wire passage areas shown in Fig. 2.
- Insert the junction box wire in the hole and fasten it with the U-bolt and screw ( $\beta$ ) provided to the table.
- Fasten the bracket by means of the specific screws ( $\alpha$ ). (Fig. 1).
- Connect the junction box wires to the specific terminals on the bracket.

4 Consider the following correspondence between terminals for using the table mounting kit with bracket Ref. 1732/957:

Table mounting kit
Ref. 1732/56

## Bibus 2nd edition VOP systems

Scaitel bracket for Ref. 1732/957


- Extract the stop bolt A from the monitor.
- Fasten the monitor to the bracket and lock it by pushing the bolt A inwards.
- Connect the system wires to the corresponding socket terminals.


Fig. 1


Fig. 2

## UTOPIA COLOUR VIDEO DOOR PHONE Ref. 1703/1



The Utopia video door phone is a colour device with an elegant, revolutionary style and a particularly slim profile (protruding only 55 millimetres from the wall) designed by Studio De Lucchi.
Some settings are arranged under the front sliding cover to make the design more streamline and convenient.
Standard controls of Utopia, in addition to colour, brightness and contrast, include auxiliary buttons, door open LED and mute on LED. The video door phone is easy to install because no masonry work is needed and all connections are made to the bracket on which the video door phone will eventually be fastened. The handset is connected simply by means of a telephone plug.

## SPECIFICATIONS

- The main features of the video door phone are:
- Flat 4" TFT backlit colour module
- Call speaker separate from handset
- Adjustable call volume: when the call volume selector is in "MUTE" ( $($ ) position, the corresponding LED lights up to indicate that the call tone has been inhibited. The LED is visible also when the front panel is closed.

When volume is set to "MUTE" the video door phone will not ring but the video module will light up.

- Adjustable colour and brightness of the picture by means of a slider.
- Adjustable contrast by means of a trimmer positioned under the sliding front panel.
- Auxiliary service button $(\diamond)$ may be used for example for switching on the staircase lights or opening a supplementary door lock.
- One button for calling the concierge station and auto-on ( $\bigcirc$ ).
- Button for enabling automatic door opening function following a call and for programming the ringer ( $\square$ ).
- Door opener button: simply press the button to operate the door lock (巳, $)$ ); the button will remain lit as long as the picture appears on the video door phone.
- Open door indicator: a red LED lights up when the controlled door is opened. The same LED will blink when the automatic door opening function is on.

The video door phone Ref. 1703/17 is set up to a speaker capable interfacing with hearing aids by means of the "T" function.


1) Auxiliary buttons
$\diamond$ Auxiliary service button: staircase lights, garage door opener, etc.

Call button door unit/auto-on
Door unit: pick up the handset and press the button. Auto-on: press the button without picking up the handset.Function button
Connect / disconnect the automatic door opening system: holding down the function button, press the door opener button. With each pressure on the button, the automatic door opening system is connected or disconnected (the door open LED will blink rapidly). Program this function on one of the indoor stations only if there are several indoor stations in parallel.
Choice of door phone call ringer: holding down the function button, press the $\bigcirc$ button. With each pressure on the button, the ringer changes. Release the button when you hear the ringer you want.
Choice of floor call ringer: holding down the function button, press the $\diamond$ button. With each pressure on the button, the ringer changes. Release the button when you hear the ringer you want.
2) Contrast adjustment trimmer: use a screwdriver.
3) Brightness adjustment trimmer
4) Colour adjustment trimmer
5) Call tone adjustment trimmer: mute function: the call tone is cut out. The green led will blink (7).
6) Door opener button Şm: the button light will be green for as long as the video door phone is operated, from when the door phone call is received to the end of conversation.
7) Mute function led: the green led blink up when the call tone is muted (see control 5).
8) Door open and automatic door opener indicator led: the red led will light up steadily if the master position door is open or blink rapidly if the automatic door opener function is on

## TECHNICAL SPECIFICATIONS

Power voltage:
$16 \div 18,5 \mathrm{Vdc}$
Working intake: $\max 0,36 A$ 1 mA max 6,5W
Stand-by intake:
Working power:

|  | $\max 0,36 \mathrm{~A}$ |
| :--- | ---: |
|  | 1 mA |
|  | $\max 6,5 \mathrm{~W}$ |
| Vertical frequency: | $50 \mathrm{~Hz} \pm 2 \mathrm{~Hz}$ |

$15625 \pm 300 \mathrm{~Hz}$
Video signal:
Horizontal frequency:
1Vpp $75 \Omega$ nominal 1Vpp -6dB minimum

4" backlit
$81 \times 59 \mathrm{~mm}$
LCD:
Screen size:
Resolution:
Colour system:
Switch-on delay:
Transmitting capsule:
Receiving capsule:
Button voltage:
$\times 250 \mathrm{~V}$ pixel
PAL
4 sec. max.
microphone

Button current:
Operating temperature range:
Max. humidity:
$-5^{\circ} \div+50^{\circ} \mathrm{C}$ 90\% UR

## BRACKET FOR UTOPIA



The Utopia video door phones are supplied without fastening bracket which must be purchased separately:

- Bracket for Bibus II^ ed. VOP systems (gray) Ref. 1703/957
- Bracket for Bibus II^ ed. VOP systems (white) Ref. 1703/958

The following functions are offered by using brackets Ref. 1703/957 in combination with Utopia video door phones:

- Non-polarised video input.
- Video connection with floor distributor Ref. 1074/54.
- In/out video connection.
- Possibility of connecting an additional video door phone.
- Privacy function.
- 6 two-tone ringers (the installer can select the door phone call and floor call tones).


## BRACKET TERMINALS

VPI VOP signal input terminals
VPU VOP signal output terminals (for in-out or parallel video door phone connection)
L1 $\}$ Door phone bus
C1
Floor call

Important: Never fit the video terminal resistors.

## BRACKET TECHNICAL SPECIFICATIONS

Max. VPI uptake with video door phone fitted:
450mA
Stand-by uptake (L1, L2):
1.6mA max.
$-5 \div+45^{\circ} \mathrm{C}$

## INSTALLATION

- Remove bracket protection.

- Arrange the conduit so that it ends in correspondence with the wire opening of the bracket, considering the height from the floor and the side clearance requirements shown in the figure.

- Fasten the bracket to the wall using the screws and bolts provided or alternatively using a flush mounting box 503 and specific holes.

- Arrange wiring.


It is advisable to refit the protective cover if the video door phone is not immediately installed on the bracket.

- Fasten the monitor to the hooks B on the upper side of the bracket and turn the monitor downwards.
- Shut the monitor on the bracket and ensure that fastening lever C is blocked.


Press lever C and reverse the sequence to remove the monitor.

## ACCESSORIES FOR UTOPIA VIDEO DOOR PHONES

The video door phone can be customised by replacing the front flaps with the following models:

- Yellow

Ref. 1703/51
Ref. 1703/52
Ref. 1703/53

- Anthracite black


## UTOPIA FREE-HANDS COLOUR VIDEO DOOR PHONE

The Utopia video door phone is a colour device with an elegant, revolutionary style and a particularly slim profile designed by Studio De Lucchi.
The most outstanding feature of this video door phone is that it is a free-hands model without handset.
Communication is established by pressing the button 埤 and closed when the button is released.
Utopia free-hands was designed to be installed in two different ways: wall-mounted without the need for masonry work, or flush-mounted to reduce the protrusion from the wall to only 16 mm .
Utopia has two sets of auxiliary buttons in addition to colour, brightness and contrast.
Three indicator LEDs are provided for more simple and immediate use. These indicate open door, mute function and audio on conditions.

The video door phone is available in the following versions:

- Grey colour

Ref. 1703/2

- White colour Ref. 1703/37


## SPECIFICATIONS

The main features of the video door phone are:

- Flat 4" TFT backlit colour module.
- Call speaker separate from conversation speaker.
- Adjustable call volume: when the call volume selector is in "MUTE" ( $($ ) position, the corresponding LED lights up to indicate that the call tone has been inhibited. The LED is visible also when the front panel is closed (an additional wire is needed in the column for this function).
- Adjustable colour and brightness of the picture by means of a slider.
- Adjustable contrast by means of a trimmer positioned under the sliding front panel.
- Two additional buttons $(\diamond\rangle, \bigcirc)$ for activating, for example, secondary door locks, staircase lights, switching the monitor on, etc.
- Door opener button: simply press the button to operate the door lock (2, $)$ ); the button will remain lit as long as the picture appears on the video door phone.
- Audio button: the light in the button will stay as long as the display is on; when the button is pressed, the indicator LED will light up and audio conversation is established.
- Open door indicator: a red LED lights up when the door is open if the system is set up for this function (sensor installed).


1) Audio button
2) Auxiliary buttons
3) Brightness adjustment control
4) Colour adjustment control
5) Contrast adjustment control
6) Call volume control
7) Open door button
8) Audio on LED
9) Mute LED
10) Door open LED (fixed light up) and automatic door opening function on LED (blinking)

## TECHNICAL FEATURES

Power voltage:
$16 \div 18,5 \mathrm{Vdc}$
Working intake: $\max 0,36 A$
Stand-by intake:
Working power:
1 mA
CCIR Version
Vertical frequency: Horizontal frequency:

## Video signal:

LCD:
Screen size:
Resolution:
Colour system:
Switch-on delay:
Transmitting capsule:
Receiving capsule:
Button voltage:
Button current:
Operating temperature range:
Max. humidity:
max 6,5W
$50 \mathrm{~Hz} \pm 2 \mathrm{~Hz}$
$15625 \pm 300 \mathrm{~Hz}$
1Vpp $75 \Omega$ nominal 1Vpp -6dB minimum

4" backlit
$81 \times 59 \mathrm{~mm}$
380H x 250V pixel PAL
4 sec. max electret microphone speaker $45 \Omega$ 24Veff. max.

1,2 Aeff.
$-5^{\circ} \div+50^{\circ} \mathrm{C}$
90\% RH

BRACKET FOR UTOPIA REF. 1703/95


The Utopia video door phones are supplied without fastening bracket which must be purchased separately:

- Bracket for Bibus II^ ed. VOP systems

The following functions are offered by using brackets Ref. 1703/957 in combination with Utopia free-hands colour video door phones:

- Non-polarised video input.
- Video connection with floor distributor Ref. 1074/54.
- In/out video connection.
- Possibility of connecting an additional video door phone.
- Privacy function.
- 6 two-tone ringers (the installer can select the door phone call and floor call tones).


## BRACKET TERMINALS



BRACKET TECHNICAL SPECIFICATIONS
Max. VPI uptake with video door phone fitted:
Stand-by uptake (L1, L2): 450mA Stand-by uptake (L1, L2): Temperature: 1.6 mA max. $-5 \div+45^{\circ} \mathrm{C}$

## WALL-MOUNTED VERSION INSTALLATION

- Remove bracket protection.

- Arrange the conduit so that it ends in correspondence with the wire opening of the bracket, considering the height from the floor and the side clearance requirements shown in the figure.

- Fasten the bracket to the wall using the screws and bolts provided or alternatively using a flush mounting box 503 and specific holes.

- Remove the lower sliding protective covers.
- Check the switch position as shown in the following figure.

- Fit the Utopia video door phone on the bracket as follows:

1. Fasten the video door phone to the hooks $B$ on the upper side of the bracket.
2. Turn the video door phone downwards.
3. Shut the video door phone on the bracket and ensure that fastening lever C is blocked.
4. Press lever $C$ and reverse the sequence to remove the video door phone.


## FLUSH-MOUNTED VERSION INSTALLATION

- Fit the Ref.1703/60 flush-mounting box at the recommended height from the floor.

- Fit the frame inside the box and adjust correct perpendicularity.

- Remove bracket protection.

- Remove the $\mathbf{3}$ fastening teeth from the bracket.

- Fasten the bracket to the frame.
- Arrange wiring.

- Remove the sliding protective covers.
- Check the switch position as shown in the following figure.

- Remove the lateral cover.

- Fit the video door phone on the bracket and fasten to the frame.


## INSTALLATION ON PLASTERBOARD WALLS

The specific 1703/61 kit is required to install Utopia free-hands video door phone on plasterboard walls.
The kit consists of a set of backing fasteners for 12 mm and 24 mm thick walls, adapted brackets and screws needed for installation.

Proceed as follows:

- Drill box Ref. $1703 / 60$ with a $\varnothing 2.2 \mathrm{~mm}$ bit to form the through holes shown in the figure below.

- Fasten the adapter brackets of the box with the $3.5 \times 9.5 \mathrm{~mm}$ screws.

- Break into the plasterboard wall as shown the drawing below.

- Fit the backing fasteners in the hole.
- Drill the wall at the holes on the backing fasteners with a Ø 2.2 mm bit.

- Fix the box to the wall using $2.9 \times 32 \mathrm{~mm}$ screws.

- Follow the instructions shown in the paragraph "Flush-mounting installation" to complete the installation.



## VOLUME ADJUSTMENT



4 Volume is calibrated to optimal values during production. Change the settings when needed only.

## PROGRAMMING

The procedure for programming video door phone user codes is the same as for Bibus 2nd edition door phones.
Go to the apartment, keeping the door lock release button pressed and press the speech signal activation button. Release the door lock button and press again the speech signal activation button.
The video door phone will sound to indicate that it has been programmed.

RINGER PROGRAMMING AND ENABLING OF AUTOMATIC DOOR OPENING SYSTEM


1. Release the video door phone from the bracket.
2. Move jumper W1 from position "a" to position "b".
3. Re-fasten the video door phone.
4. Press the door opener button. With each pressure on the button, the automatic door opening system is connected or disconnected (the door open LED will blink rapidly). Program this function on one of the indoor stations only if there are several indoor stations in parallel.
5. Press the auxiliary service button. The door phone tone will change each time the button is pressed. Go to the next step once the ringer has been selected.
6. Press the concierge call button. The floor call ringer will change each time the button is pressed. Go to the next step once the ringer has been selected.
7. Release the video door phone from the bracket.
8. Return jumper W1 to position "a".
9. Re-fasten the video door phone.

## PARALLEL VIDEO DOOR PHONES INSTALLATION

A configuration of up to two video door phones in parallel can be obtained without the addition of local power units (refer to the VOP 1074/20 video power unit instruction booklet for wiring). A door phone with additional self-powered ringer may be added to the two video door phones in parallel.
Operation is described below. Both video door phones (and the door phone connected in parallel where relevant) ring when a call is received but only the "master" monitor (i.e. the one connected directly to the column or to the VOP extension) will light up. The picture can be seen on the monitor which is off from this time until the programmed call station off-hook time-out (typically 40 seconds) by pressing the concierge call button without pressing the audio button. The audio button can be pressed on either video door phone to establish a communication with the door unit and defi nitely capture the picture.
4 The floor call button must be connected to a single video door phone.

## AUTO-ON

Video or audio/video auto-on from the MAIN station 1 is possible. With the device standing-by, press the concierge call button without pressing the audio button. Nothing will happen if the main station 1 has either a conversation in progress or is busy; otherwise, the video door phone will ring and the monitor will light up. The door can be opened and a voice connection can be established by pressing the audio button within the off-hook time-out (typically 40 seconds).

## ACCESSORIES FOR UTOPIA VIDEO DOOR PHONES

## COLOURED FRONT FLAPS

The video door phone can be customised by replacing the front flaps with the following models:

- Yellow

Ref. 1703/51

- Green

Ref. 1703/52

- Anthracite black

Replace by removing the sliding protection flaps.
Refit the protective flaps.


HANDSET FOR HEARING-IMPAIRED REF. 1703/137

5
This device allows hearing-impaired users with hearing aids to use the the video house phone Ref. 1703/37.

## INSTALLATION

## 4. Using this device, the video house phone must be wall surface mounted.

In addition to normal installation operations, the device shown below must be fitted on the video house phone.


## FUNCTIONING

- Handset on-hook.

- Handset off-hook.



## CONCIERGE SWITCHBOARD

## Download from www.urmetdomus.com Technical Manuals area.

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## SWITCHBOARD Ref. 1072/42



The door phone switchboard Ref. 1072/42 can exclusively be used in Bibus II ed. systems for:

- Communication from and to external stations with the possibility of storing unanswered calls.
- Day/Night porter's lodge service (with or without the possibility of intercepting calls from main stations directed to internal stations).

The switchboard Ref. 1072/42 is included in the SCAITEL range and can be table or wall surface fitted (see Installation chapter).

## PERFORMANCE

- Day/Night/Off service modalities.
- User calls directly by entering number code or alphanumeric code with letter prefix or suffix from A to J .
- User calls by selecting name stored in built-in repertory (max. 250 names).
- Door phone call reception and storage (max. 50).
- The switchboard can be programmed via built-in keyboard, programming keyboard Ref. 1032/65 or PC.
- Programmable door phone pick up time (10, 20, 30, 40s).
- Programmable minimum conversation time (10, 20, 30, 40s).
- Maximum conversation time: 250s.
- Acoustic call made signal.
- Busy function signalled by message on display.
- Adjusting volume of speaker and handset.
- Adjusting display contrast.
- Switch-on signal management for video module in video door phone systems.
- Date/time function.
- Multilingual message display without extra EEPROM.
- Four special function keys (e.g. staircase lights).
- Call tone level adjustment.
- Recall signal management for controlling additional ringers.
- Powered by Ref. 9000/230 (12Vca).
- Messages in 15 languages: Italian, English, French, German, Spanish, Portuguese, Swedish, Norwegian, Finnish, Dutch, Datch, Slovak, Polish, Hungarian, and Russian.


## STRUCTURE

The switchboard consists of the following parts:


1 Switchboard casing.
2 Graphic display.
3 Multiple purpose keyboard.
4 Ringer volume adjuster.
5 Handset.
6 Handset part.
7 Table mounting stand.
8 Four holes for wall fitting.
9 Two pairs of housings for brackets connecting to optional video module Ref. 1732/1.
10 Boss connection wire.
11 Wire hole.
12 Casing cover catch.
13 Adhesive feet.
14 Support plate.
15 Connector protection flap.
16 Connector for printer or PC.
17 Connector for Programming terminal Ref. 1072/60.
18 Display contrast adjuster.

## SWITCHBOARD Ref. 1072/42

DESCRIPTION OF TERMINALS - TECHNICAL SPECIFICATIONS - WALL FITTING INSTALLATION VIDEO MODULE SCAITEL INSTALLATION - DESCRIPTION OF THE PARTS

## DESCRIPTION OF TERMINALS

The following terminals are provided on the wiring junction box:
~0 12Vac power
~12 12Vac power
L1 Bus Line 1st connector
L2 Bus Line 2nd connector
CV Video module control signal
RPCH Call repeat signal
GND Control signal earth

## TECHNICAL SPECIFICATIONS

## Power:

Stand-by consumption:
Maximum consumption:
RPCH signal:
Operating temperature:
Moisture:

12Vac nominal 140mAac max 350mAac max Imax $=40 \mathrm{~mA}$ $-5+45^{\circ} \mathrm{C}$
$90 \% \mathrm{RH}$ at $30^{\circ} \mathrm{C}$

## WALL FITTING INSTALLATION

The switchboard is arranged at the factory to be table mounted. To fit the switchboard on the wall:

1) Remove the table stand (7) and the two feet (13).
2) Remove the catch (12) from the switchboard casing (1) with a small screwdriver.
3) Remove the switchboard casing (1) from plate (14).
4) Open the handset part (6).
5) Fasten the base to the wall with the four bolts provided using the holes (8).

## VIDEO MODULE SCAITEL INSTALLATION

The video module with bracket Ref. 1732/957 can be fitted on the right or on the left of the switchboard. Two brackets and four screws are provided to be fitted in the specific housings (9). Apply the specific stand (38) and the two feet (39) provided on the video module bracket.


## DESCRIPTION OF THE PARTS

## GRAPHIC DISPLAY

The switchboard features a back-lit graphic display with five 10/20 character rows.
During operation, the available display characters are organised in the following dedicated areas:

xxxxxxxxxxxxxxxx dd/mm/УYУУ HH:MМ:SS
yyyyyyyyyyyyynn rrrr

1) ee area ( 2 characters)

This area contains the main station code which is communicating with the switchboard or standing-by.
2) iiii area (4 characters)

This area contains the code of the internal station called by the main module.
3) farea (1 character)

This area contains a symbol indicating the type of voice connection. Possible symbols are:
when the main station ee has called the internal station iiii and the switchboard has intercepted the call but has not yet answered;
when the switchboard is communicating with main station ee;
when the switchboard is communicating with internal station iiii; $\downarrow$
when main station ee is communicating with internal station iiii.
4) $\AA$ area (1 character)

This area can contain a symbol indicating that internal station iiii intercepted by the switchboard has not yet been called by the switchboard operator. Internal station iiii will be called and the $\AA$ symbol will disappear when the switchboard operator presses the call button.
5) IIII area (4 characters)

This area contains the code of the internal station calling the switchboard. The field will be emptied and the code will be stored if the switchboard operator does not take the call.
6) dddd area (4 characters)

This area contains the codes entered by the switchboard operator, i.e. call codes, special codes, door opening call module codes. Press button $\otimes$ to clear the area. This area can also contain a directory user's code.
7) $\quad$ xxxxxxxxxxxxxxxx area ( 16 characters)

This area contains the name of the user concerned by a communication.
8) dd/mm/yyyy HH:MM:ss area ( 20 characters)

Normally, this area contains the date and the time. This area is temporarily used while scrolling the directory to display the user's name.
9) yyyyyyyyyyyy area ( 13 characters)

This area, along with the nn rrrr area, is used to scroll the directory and display the user's name.
10) nn rrrr area (7 characters)

This area indicates the apartment station calls stored in the switchboard:
$\mathbf{n n}$ is the number of calls;
$\mathbf{r r r r}$ is the code of the stored apartment station.
This area is also used to request confirmation before deleting stored codes.

## KEYBOARD

The keyboard features dual function numerical/alphabetical keys to enter internal station call codes, door opening codes. Press SHIFT and the corresponding key to enter a letter. The keyboard also features various function keys which are described in the following paragraphs.


19 ON/OFF button with green LED.
20 DAY/NIGHT service switchover button with green LED.
21 Directory scrolling button Z...A
22 Internal station call button.
23 Directory scrolling button A...Z
24 Stored internal station code deletion button.
25 Stored user memory call button with red LED.
26 Stored user code scroll button.
27 Programmable function buttons.
28 SHIFT button to select the second button function.
29 Clock setting button.
30 Main door opening button.
31 Secondary door opening button.
32 Main station voice switch button.
33 Error correction button.
34 Button for though voice switching between main station and internal station.
35 Button for voice switching towards internal station.
36 Button not used
37 Alphanumerical keyboard to dial call codes.

## RINGER

The modulated electronic ringer volume can be adjusted to three levels (MINIMUM-MEDIUM-MAXIMUM) by means of a lever (4) on the front part of the handset (6).

## TYPES OF USE

The way the switchboard works depends on how it was configured when it was installed and its status. The switchboard can intercept the calls from main stations only in 'Day' mode. Calls from apartment stations will always be intercepted.

## SWITCHBOARD OFF

When the switchboard is off, it behaves as if it were not present in the system. Calls from main stations are directly sent to the internal stations. Calls from internal stations are lost.

## SWITCHBOARD ON

The switchboard can be switched on to operate in DAY service mode or NIGHT service mode.

## NIGHT SERVICE

In this condition, the porter's service is inhibited and the calls from main stations are directly sent to the internal stations. The switchboard can call any internal station. Any calls to internal stations are normally received by the switchboard. If required, the operator can deal with them. If not, the calls will be stored.

## DAY SERVICE

In this condition, the switchboard implements the concierge function by intercepting the calls from main stations to apartment stations. The switchboard can call any apartment station. Calls from apartment stations are normally received by the switchboard. If required, the operator can deal with them. If not, the calls will be stored.

## OPERATING INSTRUCTIONS

## SWITCHING ON AND OFF

## CASE 1: SWITCHBOARD WITHOUT PASSWORD.

Press the ${ }_{0}^{\circ} \mathrm{F}$ ) button. The following message will appear on the display for three seconds:


The software version number is shown in the top row. After three seconds the switchboard will start working according to the mode used when it was switched off. LED (*) will light up if the switchboard is in DAY mode. If the switchboard is in NIGHT mode, LED (*) will not come on. In any case, the following message will appear when the switchboard is standing by:


The switchboard display is back-lit with a LED presenting a 30 " timeout. The light will come on when the handset is lifted, any key is pressed or when a call or alarm is received.
Hold the SHIFT button pressed while pressing the © ${ }_{\text {OFF }}$ button to switch the switchboard off.

0
The message "TO BE CONFIGURED" will appear on the display instead of the "SYSTEM OK" message if the switchboard has not been configured.

## CASE 2: SWITCHBOARD WITH PASSWORD

Press the $\left.{ }^{\circ} \mathrm{OF}\right)$ button. The following message will appear on the display for three seconds:


The software version number is shown in the top row. Enter the password programmed by the installer (a sequence of asterisks will appear in the last row) and press the call button (14). The switchboard
will start working according to the mode used when it was switched off. The switchboard will be switched off if either the password is wrong or after one minutes from pressing the (OFF) button.
If the switchboard is in DAY mode, LED (\%) will come on.
If the switchboard is in NIGHT mode, LED (粦) will not come on. In any case, the following message will appear when the switchboard is standing by:
$25 / 05 / 2000 \quad 08: 10: 54$

The switchboard display is back-lit with a LED presenting a 30" timeout. The light will come on when the handset is lifted, any key is pressed or when a call or alarm is received.
Hold the SHIFT button pressed while pressing the © ${ }_{\text {OFF }}$ button to switch the switchboard off.
5 The message "TO BE CONFIGURED" will appear on the display instead of the "SYSTEM OK" message if the switchboard has not been configured.

## DAY/NIGHT SWITCHOVER

Press (SHIFT- *) to switch from DAY to NIGHT. The switchboard will switch its service status.

## CONVERSATION SERVICE TO AND FROM INTERNAL STATIONS

The switchboard can call and be called by internal stations with this service.

## CALLS TO INTERNAL STATIONS

To call an internal station, lift the handset, dial the internal station code with the number pad (37) and press the call button (14). If you make a mistake, correct the entered data with the delete button $\star$. Hold SHIFT pressed and press the respective key to enter a letter. For example, to call a user whose code is "C126", enter the following key sequence "(SHIFT)-3", "1", "2", "6" and then press button (14.). The entered code will appear in the second row. For example:


When the call is forwarded, the information displayed on the second line will disappear and the called person's name will appear (if present in the directory).
The call will be forwarded only when the handset is off-hook.
If the user's code is not known, the user can be selected using the directory scrolling buttons $(\uparrow$ and (I). The name will appear on the third line of the display and the code on the second line.

## CALLS FROM APARTMENT STATIONS

The calls from apartment stations will be managed by the switchboard regardless of the service status (day/night). The device will store the user code if the operator does not lift the handset before timeout selected by the user.
When a call is received, the ringer will be operated for approximately 1 second and, at the same time, the apartment station code will
appear on the display along with the name of the caller as shown in the following example:

```
1 6 3 4
MARIO ROSSI
25/05/2000 08:10:00
```

Lift the handset within the pick up time. The switchboard can communicate with the internal station and the following will appear on the display:


To indicate that the switchboard is communicating with the internal station 1634. At the end of the conversation, the information will disappear from the display.

## STORING CALLS

After receiving a call from an apartment station, the calling apartment station code will be automatically stored by the switchboard if the operator does not lift the handset before the timeout. The internal memory dedicated to storing internal station call codes will not be cleared if the switchboard is powered down. The switchboard can store up to 50 internal station call codes.
Three buttons on the keyboard are exclusively dedicated to managing booked calls (buttons $M_{x}$, $M_{4}$,,$\left.M_{4}\right)$ ).
The stored call code and the total number of stored calls (from "1" to "49") are displayed on the bottom row as shown in the following example:


In this case, the display shows that there are ten stored calls and that the first call was made by user " 5748 ". Calls from internal stations are stored regardless of the switchboard mode (DAY/NIGHT) unless this function was disabled when the switchboard was programmed. The booking memory status is indicated by LED $\mathbb{M}_{4}$. The LED will light up if there are one or more calls stored. When the memory is full, i.e. when 50 calls have been received, you should clear the booking memory with the specific buttons (call or delete) because only up to fifty calls can be stored.

## STORED CALL MANAGEMENT

## VIEWING STORED CODES AND NAMES

The booking codes and names can be displayed by pressing the specific scroll button $M_{4}$. For example, the following will appear if calls were booked by users 1234 and A100:


Press button $\left(M_{L}\right)$ once. The following will appear:

|  |  |
| ---: | ---: |
| PAOLO BIANCHI |  |
| $25 / 05 / 2000 \quad 08: 10: 00$ |  |
| $02 ~ A 100$ |  |

Press the button $\left(M_{\Delta}\right)$ again to return to the original display (1234).
After selecting the code as described above, the operator can either call the selected internal station or delete the booking.

CALLING THE SELECTED INTERNAL STATION
Press the stored call button $\left(M_{4}\right)$.
5 The call will be forwarded only if the handset is lifted.

## DELETING A STORED CALL

The operator can delete a stored call to clear all the calls (LED $M_{4}$ ) off). For example, to delete call code A100:

|  |
| :--- |
| PAOLO BIANCHI |
| $25 / 05 / 2000 \quad 08: 10: 00$ |
| 02 A100 |

The following message will appear on the display after pressing button $M_{2}$ :

|  |  |
| ---: | ---: |
| $25 / 05 / 2000$ | $08: 10: 00$ |
| OK |  |

Press button $M_{x}$ again within three seconds to delete. If the button is not pressed the entire operation is ignored.
L) Deletion will be automatic if the switchboard calls the booked user and the user picks up.

## PORTER'S SERVICE

When the switchboard is in Day mode it is enabled to intercept calls from main stations to the apartment stations, in addition to calling and being called by apartment stations. When a call is received from the main station, the tone will be different from that used for calls from apartments stations. Furthermore, the calling code (from 001 to 012) and the code entered by the user (from 0000 to 9999) will appear on the display. For example, the following will appear if main station 010 calls user 1234 and the switchboard intercepts the call:
10... 1234

25/05/2000 08:10:00

The video module will come on if the switchboard is connected to one. The voice line to the main calling station will automatically be
opened when the handset is lifted:

```
10`1234^
25/05/2000 08:10:00
```

The operator can speak to the caller and if required call internal station 1234 or another station. The "bell" symbol indicates that the switchboard can directly call code 1234 simply by pressing call button (12.) without entering the code 1234. The following will appear on the display:


When the called user answers, press button (1) to put the main station directly in communication with the internal station. The following will appear on the display:


At the end of the conversation (when the internal station handset is hang up), the information will disappear from the display.
When the switchboard enabled for the porter's service is managing a call between the main station and the internal station it can switch to the main station at any time by pressing button ( $\mathrm{F}^{-}$) and put the internal station on hold. Alternatively, button (J) can be pressed to switch to the internal station and put the main station on hold.

## DOOR OPENING FUNCTIONS

Any door can be opened from the switchboard (associated to a main or secondary station) in any moment. This function is called "PRIORITY DOOR OPENING".

## OPENING THE MAIN DOOR

Two conditions can occur:

- Following a main station call: when the switchboard establishes a communication with a main station or is managing the communication between the apartment station and outside, simply press the main door opening button $\Theta$.
- In any other moment: enter the main station code (1-12) followed by the main door opening button $\odot$
- 

OPENING A SECONDARY DOOR
Enter the secondary door code (0-9) and press the secondary door opening button ©.

## AUDIO LINE STATE INDICATIONS DURING NIGHT SERVICE

The state of the audio line is always shown on the switchboard display. The state is that of the main unit and couplers; it is not possible to see whether secondary units and decoders are engaged. The audio channel state can be:

- Free: no communication is in progress. Nothing is shown in the


## respective row of the display.

- Busy: a communication is in progress on the voice channel and it cannot be interrupted since the busy timeout has not passed. The message "BUSY" will appear in the respective row of the display.
- Engaged: a communication is in progress on the voice channel and it can be interrupted since it is lasting for a time exceeding the busy timeout. The symbol $\boldsymbol{\sim}$ will appear in the respective row of the display.

If the channel is busy or engaged, the switchboard operator cannot tell which devices are involved in the communication. Furthermore, if the channel is busy, the communication between the two devices cannot be interrupted while the call can be interrupted by the switchboard operator if the channel is engaged.
Example: a main station calls an internal station:
BUSY

25/05/2000 08:10:00

If the call lasts for longer than the busy timeout:


## SPECIAL DECODER MANAGEMENT

The switchboard is enabled to manage electrical actuators using for the purpose special service decoders Ref. 1072/80. The switchboard has 6 function buttons of which only the first 4 are used (F1, F2, F3, F4) for implementing appropriately configured special decoder functions. The following appears when the button is pressed.


## SPECIAL FUNCTIONS

## ADJUSTING DATE AND TIME

Press the SHIFT- $\Theta$ buttons at the same time to set/adjust the date and the time. The following will appear on the display:

$$
\begin{gathered}
\text { DD/MM/YY } \\
\text { 25/---/-- } \\
\text { 25/2000 08:10:00 }
\end{gathered}
$$

The first row indicates the date format, the digits corresponding to the day, month and year can be entered in the second row. Press the call button 14.4 to confirm. Enter the day, month and year to change the date and press the call button (14).

The time can now be entered:


Enter the hours and the minutes and confirm by pressing the call button (4).
After confirming the time, the message "WAIT" will appear on the switchboard for approximately three seconds after which the switchboard will return to its normal service.

## KEYBOARD LOCK

The keyboard can be locked if the switchboard operator needs to leave the service to prevent carrying out action with the keyboard. To do this, press (SHIFT and the main door opening button $\Theta$ at the same time. No commands from the keyboard will be accepted by the switchboard when the keyboard is locked, including DAY/NIGHT service switchboard. The message "XXXX" will appear in the user code entry field. Press the same keys to release the keyboard lock.
Lithout the password, the switchboard will remain locked also if it is powered down and then re-powered.

## OTHER INFORMATION ON THE DISPLAY

Calling an internal station which does not exist in the system. The following will appear on the display:


Data line not connected or short-circuited:


The warning will appear until the error is solved.

CONFIGURATION

## CONFIGURATION

The configuration cycle can be activated:

1) With the switchboard powered and the handset on-hook, hold the SHIFT button pressed, press button ( $\downarrow$ repeatedly until the language configuration step appears on the display. Press button $\otimes$ for 3 s to quit configuration mode.
2) With the programming adapter $1072 / 60$ inserted in the connector (17).
3) By connecting to a PC via connector (16).

The switchboard can be programmed and configured rapidly by means of a personal computer suitably connected to the switchboard serial port. Use B-BUS PC program to make switchboard programming easier and faster. The B-BUS program (version 2.0 or higher) can be downloaded from the URMET DOMUS web site (http://www. urmetdomus.com) free of discharge.

Minimum PC requirements are:

- 486 processor or above.
- Windows 95 or 98 operating system.
- Use of a mouse is recommended.

A cable with the following connections (not provided) is required:


## PROGRAMMING STEPS

The programming steps are shown on the switchboard for configuring via switchboard or programming adapter module 1072/60. Use buttons $\Psi$ and $(\mathbb{1}$ to go to the previous/next menu. Press button (4) to access the various switchboard programming steps.
The programming buttons refer to configuration via the switchboard. Refer to the following table for the programming adapter buttons:

| Function | Local keyboard programming | External keyboard programming |
| :---: | :---: | :---: |
| Select menu | $\uparrow$ and $\downarrow$ buttons | $\leftarrow$ and $\rightarrow$ buttons |
| OK (Enter) | " ${ }^{\text {N/ }}$ button | $\downarrow$ button |
| Escape (return to upper menu) | Hold $\times$ button pressed for 3s | $\wedge$ button |
| Blank | Press characters | SP button |
| Backspace (for correcting) | Press characters | BS button |
| Select special characters | Press characters | / button |
| Delete an associated code booking | $\cdots$ button | BS button |

## STEP 1 - LANGUAGE

The following menu will appear on the switchboard:

## STEP 1

ENGLISH

Press buttons $\uparrow$ and $\mathbb{1}$ to scroll the various languages. Press to select the required language.

## STEP 2 - PICK UP TIME

The following will appear on the switchboard:

```
STEP 2
    20
    Pick up time
    (10,20,30,40 0)
```

To change the parameter, simply press buttons 1-4 and press button (14.).

## PICK UP TIME

The pick up time is the maximum time within which the user must answer the door phone. The system is busy during this time. All devices in the system must have the same pick up time.

4
If the switchboard call comes from an apartment station, the calling stations will not be busy during the pick-up time.

STEP 3 - BUSY TIME
The following will appear on the switchboard:

| STEP 3 |
| :---: |
| 20 |
| Busy time |
| $(10,20,30,40$ |
| $0)$ |

Use 1-4 buttons to select and (14.) button to confirm.

## BUSY TIME (MINIMUM CONVERSATION TIME)

When a user is called by the switchboard and answers the door phone, or when the switchboard answers a door phone call, the call stations will be busy for the minimum programmed conversation time. A communication that has just started cannot be interrupted. All devices in the system must have the same minimum conversation time (busy time).

[^3]
## STEP 4 - CODE TYPE

The following will appear on the switchboard:

| STEP |
| :---: |
| $\mathbf{1}$ |
| Code <br> $1=$ NUM <br> $2=$ PREF <br> $3=$ SUU |

Use 1-3 buttons to select and (14) button to confirm.

## CODE TYPE

The switchboard can be used to call users with either a numeric code (0001-9999), an alphanumeric code and letter prefix (x000-x999) or an alphanumeric code with letter suffix (000x-999x). Letters from A to J.

STEP 5 - CALL REPEAT
The following will appear on the switchboard:

| STEP |
| :---: |
| $\mathbf{0}$ |
| CALL <br> $1=$ NUM <br> $2=$ REPERE <br> $3=$ SUUF |

To change the parameter, simply press buttons $0-3$ and press button (10).

Set 0: the terminal is never active; set 1 : the terminal is active during rings for external calls; set 2: the terminal is active during rings for internal calls; set 3 : the terminal is active during all rings.

## STEP 6 - PASSWORD PROGRAMMING

The following will appear on the switchboard:


To change the password, simply enter six numbers and press button (14.).

The system will ask for the password every time the switchboard is switched on with the ${ }_{0}^{\circ} \mathrm{O}$ ) button.
The password is only numeral.

STEP 7 - ENTER CODES AND NAMES
The following will appear on the switchboard:

| STEP 7 |
| :--- |
| SCOD: |
| NMAE: |

Enter the code and press (14) to confirm.
Enter the name using buttons ( $\uparrow$ and and press to confirm. Press the $\otimes$ key or key (10) to quit the menu.
The message "CODE ALREADY EXISTS" will appear if an existing
user code is inserted. Confirmation is required to proceed.

STEP 8 - EDIT CODES AND NAMES
The following will appear on the switchboard:


Press buttons $\uparrow$ and $(\mathbb{1}$ to scroll the names.
Press button to access code editing mode.
Press button (140) again to access name editing mode.
Press the $\otimes$ key to quit the menu.
If a code is changed you will be asked to confirm. Press key © to confirm the operation; press the $\otimes$ key to cancel the operation. To change the name as well, repeat the edit sequence.

STEP 9 - DELETE CODES AND NAMES
The following will appear on the switchboard:

| STEP 9 |  |
| :---: | :---: |
| Erase aLL |  |
| ok |  |

Key (14.) confirms the operation. The $\otimes$ key cancels the operation.

## STEP 10 - ASSOCIATING CODES TO DOOR PHONES

The following will appear on the switchboard:


- Press buttons $\uparrow$ and $(\mathbb{t}$ to scroll the names.
- Press (10): a symbol (triangle) will appear next to the name to confirm the association:


Uy Up to three extensions can be associated to each code.

- Press button @ to remove the triangle symbols.
- Hold $\otimes$ pressed for 3 seconds to establish the association.


The switchboard will quit programming mode at the end of the association.

COUPLERS POWER UNITS VARIOUS DEVICES

Download from www.urmetdomus.com Technical Manuals area.

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[^4]
## BUS COUPLER WITH TRANSFORMER Ref. 1072/24 ( $\square$ ( 1 ( $\in$



## PERFORMANCE

- Powers the two-wire bus on main push-button panel side: up to 12 stations + 1 switchboard.
- The bus on door phone side is called the "column" and is split into two spines. The two spines are reciprocally equivalent and can be separately cut off in the case of a failure. This event is indicated by the two LEDs corresponding to the spines.
- Powers the column (two spines and two wires): max. 50 door phones +1 secondary push-button panel. Up to 30 door phones + 1 secondary push-button panel can be connected if open door LED feature is provided. In this case, an additional coupler cannot be used to increase the number of door phones in the column if this is connected to a secondary call station.
- Repeats the data between the two buses.
- Provides bus line impedance on main push-button panel side and door phone side to allow audio modulation.
- Provides the current needed to generate the door phone call and the floor call.
- Couples the voice of the two buses.
- Powers electrical door lock and name tag lights.
- Equipped with low voltage relay for controlling "staircase lights".
- Equipped with VOP video power unit controller (1074/20).


## DESCRIPTION OF TERMINALS, CONFIGURATIONS AND DISPLAYS

| B1 | Spine 1 working LED. |
| :---: | :---: |
| B2 | Spine 2 working LED. |
| M/S | Master/Slave configuration plug connector |
| L1, L2 | Connection to bus on main push-button panel side |
| B1A, B1B | Connection to column spine 1 |
| B2A, B2B | Connection to column spine 2 |
| 0, ~230 | Mains. |
| $\sim 0, \sim 12$ | Can power the following alternatively: <br> - 1 calling module; <br> - 1 concierge switchboard; <br> - 1 electrical door lock (see technical specifications); <br> - bulb or name tag lighting LED (see technical specifications). |
| C, NA, NC | "Staircase lights" relay exchange. |
| CM, GND | 1074/20 controller. |

## TECHNICAL SPECIFICATIONS

Power supply:
$230 \mathrm{Vac} \pm 10 \% 50 \mathrm{~Hz}$
37VA
Power:
22Vdc 120mA
L1, L2:
22 Vdc 60 mA
B1A, B1B: 22Vdc 60mA
B2A, B2B:
~0, ~12:
12Vac 1.1A
Relay contacts:
$24 V d c$ 1.2 A - 24Vac 1.2A
Protections:
PTC ${ }^{(1)}$
Temperature:
$-5^{\circ} \mathrm{C}+40^{\circ} \mathrm{C}$
${ }^{(1)}$ Disconnect the mains power for at least 60 seconds to reset the power unit if the PTC trips due to overload or short-circuit.

## INSTALLATION AND CONFIGURATION

Install the coupler in a dry place. Keep slots open to prevent overheating the device. Do not install the coupler near devices generating strong magnetic fields.
The device can be fitted on a DIN EN 43870 bar (12 modules).
The coupler is configured as a slave by default.
Insert the specific plug provided to configure the coupler as a master. Only one coupler can be configured as a master in each system. All other coupling devices must be configured as a slave.


Each coupler can be connected to up to 50 door phones (including door phones in parallel) in two spines.
Organisation in spines is useful because if a spine fails (spine bus short-circuit or faulty door phone), it can be cut off from the system permitting the remaining spines to work normally.

## STAIRCASE LIGHT CONTROLLER RELAY

The coupler is equipped with a low voltage contact controlled for one second subsequent to the following events:

- Pressing of "staircase lights" button on any door phone connected to the respective spines.
- Pressing of "staircase lights" button on secondary door unit connected to the respective spines.
- Pressing of "staircase lights" button on any main door unit (with digitiser only).
- Pressing on concierge switchboard button F1.


## TROUBLESHOOTING

The bus coupler has two LEDs indicating the status of the respective door phone spine. One or more coupler LEDs will go out to indicate a short-circuit on the corresponding door phone spine.

## TERMINALS DESCRIPTIONS - TECHNICAL SPECIFICATIONS -

INSTALLATION AND CONFIGURATION

## VIDEO VOP POWER UNIT Ref. 1074/20 (ㅁ) ( $\epsilon$



The video VOP power unit is provided complete with a modulator. The device takes a differential video signal from the camera and outputs the VOP signal (power + video signal).
The main characteristics of this power unit are

- Two differential video inputs for signal reception from primary and secondary cameras.
- Video signal switching of two inputs via internal relay.
- VOP column power output consisting of overlapped power and one differential video signal.
- Output to power a camera, a video signal converter and a relay box.
- Arrangement for connecting bus coupler Ref. 1072/24.
- Possibility of equalising video signal from main station by setting distance (via dip switch).
- Possibility of connecting up to 50 video door phones in in/out mode $\left(^{*}\right)$.
- Possibility of connecting up to 13 floor distributors (*).
- Maximum distance between power unit and last monitor: 200 m (*).
- Maximum distance between power unit and main camera: 400m.
- Maximum distance between power unit and secondary camera: 200m.
(*) Configuration with maximum number of devices at maximum distance may be obtained with Atlantico video door phones only; see indications in section 1 for other configurations.


## TERMINALS DESCRIPTIONS

VOP column power terminals
Camera power positive
R1 Camera power negative
CM Modulator command from Ref. 1072/24
GND Modulator command negative from Ref. 1072/24
M Remote modulator command
R Video switching enable signal (from main to secondary)
R1 Video ground
A Main video signal
B Main video signal
AS Secondary video signal
BS Secondary video signal

## TECHNICAL SPECIFICATIONS

Power supply:
Power:
R2, R1 output:
VP output:
Temperature:
$230 \mathrm{Vac} \pm 10 \% 50 \mathrm{~Hz}$ 45W
$18 \mathrm{Vdc} \pm 10 \% 200 \mathrm{~mA}$
$28 \mathrm{Vdc} \pm 5 \%$ @ 700 mA intermittent (4 minutes on - 4 minutes off)

## INSTALLATION AND CONFIGURATION

The casing is suitable for fitting on DIN bar and wall by means of screws and bolts; in all cases, the power unit must be installed in a dry place where it is sheltered from the elements, respecting the safety standards.
The distance of the main camera must be set on the VOP video power unit for the video signal to be correctly regenerated inside the video power unit before being transmitted to the column.

| Distance | VOP power unit dip-switch |
| :---: | :---: |
| $0 \div 200 \mathrm{mt}$ (default) |  |
| $200 \div 400 \mathrm{mt}$ |  |

Set the distance of the camera closest to the power unit in systems with several cameras.
A signal regenerator Ref. 1795/250 must be installed for cameras at further distances.

## IMPORTANT:

Observe the instructions contained in section 1 for wiring and maximum distances.


SECURITY TRANSFORMER Ref. 9000/230
TECHNICAL SPECIFICATIONS

SECURITY TRANSFORMER Ref. 9000/230 (1) $)(\epsilon$


The power unit Ref. 789/2 is required to power the main camera and the video signal Ref. 1795/40 distributor in systems with several column.

## TECHNICAL SPECIFICATIONS

Power supply:
$230 \mathrm{Vac} \pm 10 \% 50 / 60 \mathrm{~Hz}$
Power:
Outputs:
R2 out 0.65A int. RL 0.02A V2 0.02A
Protection:
Operating temperature:
Dissipated power after 1 average working hour:
$5^{\circ} \mathrm{C} \div+45^{\circ} \mathrm{C}$
URMET DOMUS Ref. 9000/230 transformer is used to power Bibus 2nd Edition locks in systems fitting traditional push-button panels and door units with digitiser. Suitable for DIN bar fitting, the device was designed and made in compliance with the laws in force concerning isolation and safety transformers being protected from direct and indirect contact as required by the electrical system standards in force.
It carries IMQ marking and respective certifications.
The transformer can be used to power up to 5 bulbs per push-button panel.

## TECHNICAL SPECIFICATIONS

| Power supply: | $230 \mathrm{Vac}, 50 / 60 \mathrm{~Hz}$ |
| :--- | ---: |
| Power: | 18 VA |
| Secondary: | 12 Vac |
| Peak load: | 1.1 A |
| Protections: | with PTC |
| Dissipated power after 1 average working hour: | 1.8 W |
| Disconnect for 60" to reset after a short-circuit. |  |

(*) If the PTC thermal cutout is tripped due to overload, cut off mains voltage for at least 60 " to reset the power supply unit.

## STYLING AND DIMENSIONS

The power supply can be installed on a DIN bar or wall surface mounted using 2 screws and plugs.

Connections are made by means of screw type terminal blocks. The terminal blocks can accept conductors with a maximum crosssection of $1.5 \mathrm{~mm}^{2}$.

## SUPPLEMENTARY POWER UNIT 12Vdc - 15Vdc Ref. 1090/850 $\square$ (11) ( $\epsilon$



The Ref. 1090/850 power unit supplies voltage at 12 Vdc or 15 Vdc .
Remove the jumper between terminals P1 and P2 to obtain 15 Vdc voltage output. The output voltage will be 12 Vdc if the jumper is not removed.

## TECHNICAL SPECIFICATIONS

Power supply:
Power:
Uptake:
Outputs:

Protection:
Weight:
Temperature:
(*) If the PTC thermal cutout is tripped due to overload, cut off mains voltage for at least 60" to reset the power supply unit.

## INSTALLATION

The connections are made using screw type terminal strips. The maximum cross-section of the wires accepted by the terminal strips is $1.5 \mathrm{~mm}^{2}$.

The power unit and circuit breaker may be fitted on DIN bar or on wall with two bolts.


## TERMINALS DESCRIPTIONS

$\left.\begin{array}{l}\sim 0 \\ \sim 230\end{array}\right\}$ Mains 230 Vac
$\left.\begin{array}{l}\text { Vout } \\ \text { GND }\end{array}\right\}$ 12Vdc or 15 Vdc power output
$\left.\begin{array}{l}\text { P1 } \\ \text { P2 }\end{array}\right\}$ Jumper connection to change output voltage

VOP VIDEO DISTRIBUTOR Ref. 1795/40 ( $\epsilon$


The video distributor Ref. 1795/40 shares out the differential video signal from the main cameras on several riser columns (up to four).
4
Any number of distributors may be connected reciprocally in series using the passing output.
Only up to 3 distributors can be connected in series using extension outputs.

## TECHNICAL SPECIFICATIONS

Power:
$16 \div 23 \mathrm{Vcc}$
Uptake:
100mA with 1 active output 280mA with 4 active output
Temperature:
$-5 \div+45^{\circ} \mathrm{C}$

## TERMINALS DESCRIPTIONS

R1
Video ground
R2
Video power
A, B (IN) Video signal input
A, B (OUT)
A, B (I)
Video signal output
A, B (II)
A, B (III)
Video signal output for extension

A, B (IV) Video signal output for extension IV


Important: Never fit the video terminal resistors $82 \Omega 1 / 4 \mathrm{~W}$.

## VOP FLOOR VIDEO DISTRIBUTOR Ref. 1074/54 ( $\epsilon$



The Ref. 1074/54 distributor is used to share out the VOP video signal from the column to four video door phones.
The device has one input (power unit signal), one passing output (for distribution of signal to other distributors) and four outputs (extensions to video door phones).
Monitors or other floor video distributors can be connected to the extension outputs.
Up to 13 can be connected using the distributor passing output.

## TECHNICAL SPECIFICATIONS

VPI power:
$14 \div 28 \mathrm{Vdc}$
Temperature:

$$
-5 \div+45^{\circ} \mathrm{C}
$$

## TERMINALS DESCRIPTIONS

VPI Signal input
VPU Signal output
VP (I) Signal output for extension I
VP (II) Signal output for extension II
VP (III) Signal output for extension III
VP (IV) Signal output for extension IV
Important: Never fit the video terminal resistors $82 \Omega$ 1/4W.

## WIRING DIAGRAM

## DISTRIBUTION ON COLUMN



DISTRIBUTION ON SEVERAL COLUMNS

4) Up to 2 distributors can be connected in series using the extension outputs (see distributors $A+B$ or $A+C$ ).

## PROGRAMMING KEYBOARD Ref. 1032/65



The programming keyboard Ref. 1032/65 is used to program the following devices:

- Bibus calling module Ref. 1072/12 Mod. Kombi.
- Bibus calling module Ref. 1072/13 Mod. Sinthesi.
- Bibus calling module Ref. 1072/14 Mod. K-Steel.
- 2-wire concierge switchboard Ref. 1072/42.

See the respective sections for parameters and programming methods of these devices.

PROGRAMMING ADAPTER Ref. 1072/60


## PERFORMANCE

Programming adapter Ref. 1072/60 can be used in combination with keyboard Ref. 1032/65 to program door unit and digitiser user codes and configuration parameters.
The adapter can be used to program the following devices:

- Ref. 1072/7 Sinthesi door unit and digitiser module.
- Ref. 1072/5 K-Steel door unit and digitiser module.
- Ref. 1072/19A 725, Domus Aura and Kombi door unit and digitiser.
- Ref. 1072/28 1128 door unit.


## TECHNICAL SPECIFICATIONS

Intake:
<5mA
Temperature:
$-10^{\circ} \mathrm{C} / 50^{\circ} \mathrm{C}$
Humidity: $90 \%$ RH at $30^{\circ} \mathrm{C}$

CABLE FOR PROGRAMMING DIRECTORIES FROM THE PC Ref. 1072/57

CABLE FOR PROGRAMMING DIRECTORIES FROM THE PC Ref. 1072/57


The programming kit can be used to connect the calling modules to a Personal Computer.
The Personal Computer must be equipped with B-Bus $2^{\text {nd }}$ Edition software which can be downloaded free of charge from the Urmet Domus web site at www.urmetdomus.com.
The software can also be used to program the concierge switchboard using the specific serial wire.

PROGRAMMING KIT BIBUS 2 ND EDITION Ref. 1072/58


Ref. 1032/65


The programming kit consists of the following devices:
N. 1 programming keyboard Ref. 1032/65
N. 1 programming adapter Ref. 1072/60
N. 1 Bibus-PC programming wire Ref. 1072/57

The product can be used to program all components in the system (except for door phones), namely:

- Door unit with digitiser Ref. 1072/19A, Ref. 1072/7, Ref. 1072/28 and Ref. 1072/5 by means of adapter (Ref. 1072/60) and keyboard (Ref. 1032/65).
- Calling module Ref. 1072/12, Ref. 1072/13, Ref. 1072/14 and switchboard Ref. 1072/42 by means of keyboard (Ref. 1032/65) or connection wire (Ref. 1072/57) connected to a Personal Computer where the B-Bus $2^{\text {nd }}$ Edition software is installed (the software can be downloaded free of charge from the Urmet Domus web site at www.urmetdomus.com).



## SUPPLEMENTARY RELAY Ref. 788/52 (€



The device Ref. 788/52 consists of a relay with two toggle contacts and is used to build Bibus 2nd Edition video door phone systems with several main video door phone units.

$\mathrm{N}-1$ relays Ref. 788/52 must be used in the system, where N is the number of video door phone units to be connected to the video door phone column.

## TECHNICAL SPECIFICATIONS

| Power: | 12 Vac nominal |
| :--- | ---: |
| Consumption: | $12 \mathrm{Vdc} ; 18 \mathrm{Vac} ; 18 \mathrm{Vdc}$ |
|  | $40 \mathrm{~mA} @ 12 \mathrm{Vdc}$ |
|  | $60 \mathrm{~mA} @ 18 \mathrm{Vdc}$ |
|  | $100 \mathrm{~mA} @ 12 \mathrm{Vac}$ |
| Max. relay contact power: | $150 \mathrm{~mA} @ 18 \mathrm{Vac}$ |
|  | $50 \mathrm{~A} @ 100 \mathrm{~V}$ |

## INSTALLATION

The device must be installed in a protective casing when it is used to power voltage exceeding 24 V to meet safety regulations.
The device can be DIN bar fitted or wall fitted using screws and bolts.
The connections are made using screw-on terminal boards and clamps.

The device can be fastened to a DIN bar or bolted to the wall.


## SPECIAL DECODER Ref. 1072/80 C€



## PERFORMANCE

The decoder 1072/80 can be used in digital BiBus 1st and 2nd edition systems to activated or deactivate electrical loads by means of a double exchange relay whose operation can be:

- Bistable.
- Toggle timed (from 1 to 999s).

Possible applications include: switching staircase lights on, operating supplementary locks, opening gates, etc. The load can be controlled directly, since this is a power relay (see TECHNICAL SPECIFICATIONS).
The special decoder is programmed by means of keyboard 1032/65 and adapter 1072/60.

## STRUCTURE

The special decoder consists of the following parts:


1. White shock-proof plastic cover
2. Memo label
3. Fixed relay output terminal boards
4. Terminal protection cover
5. Bus connection terminal board: L1, L2
6. Programming adapter connector $1072 / 60$

SPECIAL DECODER Ref. 1072/80
Urmet
TECHNICAL SPECIFICATIONS - OPERATION IN 2ND EDITION SYSTEMS
D O M U S

## TECHNICAL SPECIFICATIONS

L1, L2 consumption:
Working temperature range:
Toggle relay time:
Timing precision:
Relay contacts:
Dimensions (L x W x H): $142 \times 108 \times 38 \mathrm{~mm}$

## OPERATION IN 2ND EDITION SYSTEMS

The following features are offered by use in a BiBus 2nd edition system:

- Possibility of controlling the special decoder via a switchboard with four function buttons F1, F2, F3, F4 (each of which can be deactivated on the special decoder);
- Possibility of controlling the special decoder via the "staircase lights" of the door phones as follows:

1) Via door phones programmed in special decoder only (up to four).
2) Via all door phones in certain system columns (up to four columns).
3) Via all door phones in the system
4) Via door unit with digitiser (with the exception of Ref. 1072/18 and Ref. 1072/19) using a programmed button.

- Extra operating combinations in addition to the four listed above can be obtained according to how the special decoder is programmed (see PROGRAMMING).
- Bistable or toggle timed operation (from 1 to 999s); toggle: the relay is operated for the programmed time; bistable: the relay is switched on by the door phones and calling stations either by switchboard button F1 or F2 and is switched off either by switchboard button F3 or F4.


## OPERATION IN 1ST EDITION SYSTEMS

The following features are offered by use in a BiBus 2nd edition system:

- Possibility of controlling the special decoder via a switchboard with three function buttons F2, F3, F4 (each of which can be deactivated on the special decoder).
- Possibility of controlling the special decoder via the "staircase lights" of the door phones.
- Bistable or toggle timed operation (from 1 to 999s); toggle: the relay is operated for the set time; bistable: the relay is switched by the door phones and calling stations either by switchboard button F1 or F2 and is deactivated either by switchboard button F3 or F4.


## INSTALLATION



The special decoder presents four holes for wall fastening by means of 6 mm diameter bolts (not provided). The decoder can be wall fitted with the wires either flush or not.

Important: In both cases, the relay will directly control the high voltage loads. The wires connected to the relay terminal boards must pass in a separate channel from the rest of the system.

Terminals L1, L2 are used to connect to the bus. Connect indifferently either to the main station side bus or to the door phone side bus. The connection of the electrical load to be controlled is made by means of fixed terminal boards protected by a plastic cover. The terminal boards lead to two reciprocally isolated contacts with the following names:

- NA: normally open relay contact
- NC: normally closed relay contact
- C: common relay contact

Consider the following table for cross-section areas of the wires to be used to connect to the bus:

| Maximum distance | $\mathbf{5 0} \mathbf{~ m}$ | $\mathbf{1 0 0} \mathbf{~ m}$ | $\mathbf{2 0 0} \mathbf{~ m}$ | $\mathbf{4 0 0} \mathbf{~ m}$ |
| :--- | :---: | :---: | :---: | :---: |
| Between: <br> - Special decoder (installed on door <br> phone bus side) | $0.75 \mathrm{~mm}^{2}$ |  |  |  |
| -Coupler |  |  |  |  |$|$| Between: <br> -Special decoder (installed on main <br> station bus side) <br> - Coupler | $0.75 \mathrm{~mm}^{2}$ | 1.5 <br> $\mathrm{~mm}^{2}$ |
| :---: | :---: | :---: |
| 2.5 <br> $\mathrm{~mm}^{2}$ |  |  |

## Maximum number of devices:

- Three special decoders on door phone side for each coupler.
- Three special decoders in total on main station side.

Proceed as follows to increase the number of special decoders:

- Reduce the maximum number of door phones which can be installed by one unit for each three additional special decoders on door phone side (e.g. 6 special decoders and 49 door phones, 7 special decoders and 48 door phones, etc.).
- Reduce the maximum number of main stations which can be installed by one unit for each twelve additional special decoders on main station side: (e.g. 12 special decoders and 11 stations, 24 special decoders and 10 stations, etc.).


## PROGRAMMING

The special decoder is programmed at the factory as follows:

- Operating mode: toggle timed for 1 s
- Switchboard function buttons: all enabled.
- Control from all door phones and all calling stations in system.

Consequently, the special decoder may not need to be programmed and may be ready for use.

Proceed as follows if you need to edit the programming parameters. Insert the programming adapter Ref. 1072/60 in the minidin connector (6). The special decoder will beep three times to confirm. Program the parameters are described below with the keyboard 1032/65 connected to the Ref. 1072/60.
Press $d$ at the end of each command. The decoder will beep three times to confirm if the configuration is correctly programmed. A longer beep will indicate that the parameter is not configured properly Press $\downarrow$ to cancel the entered parameter before pressing $\AA$. The parameters can be programmed in any order.
Not all parameters need to be programmed. Extract the keyboard at any time. The programmed values will be stored and the special decoder will generate a longer beep.

## OPERATING MODE

Use letter " M " for commands.

| Value to be programmed | Keyboard command |
| :--- | :--- |
| Toggle function | $\mathrm{MO}_{\downarrow} \mathrm{J}$ |
| Bistable function | $\mathrm{M}_{\curvearrowright}$ |

## RELAY ENERGISING TIME

The programming step is required for toggle operation only． Use letter＂D＂for commands．

| Value to be programmed | Keyboard command |
| :--- | :--- |
| Relay energising for $n$ seconds | $\mathrm{Dn}_{\downarrow}$ |

＂n＂must be comprised in the range from 1 to 999.
Example：D5」，D60」，D100」．

## ENABLING／DISABLING SWITCHBOARD FUNCTION BUTTON

Use letter＂F＂for commands．Each button can be enabled／disabled individually．

| Value to be programmed | Keyboard command |
| :---: | :---: |
| Enable button F1 | F1A1」 |
| Enable button F2 | F2A1」 |
| Enable button F3 | F3A1」 |
| Enable button F4 | F4A1」 |
| Disable button F1 | F1A0」 |
| Disable button F2 | F2AO」 |
| Disable button F3 | F3AO」 |
| Disable button F4 | F4A0」 |

Switchboard button F1 will not be effective in 1st edition systems，also if it is enabled by the special decoder．

## PROGRAMMING SPECIAL DECODER CONTROL FROM DOOR PHONES AND CALLING STATIONS

The special decoder control can be programmed to：
－Receive the＂staircase light＂control from any door phone and any calling station in the system：in this case，simply program＂any＂ and do not program codes（see programming step in the following paragraph）．
－Receive the＂staircase light＂control from groups of door phones and calling stations in certain columns（up to four columns）：in this case， program＂column＂and at least one user code for each required column（see programming step in the following paragraph）．
－Receive the＂staircase light＂control from a group of up to four calling stations and／or door phones in the system：in this case， program＂single＂and four user codes or calling station IDs（see programming step in the following paragraph）．

Letter＂O＂identifies the type of station：

| Value to be programmed | Keyboard command |
| :--- | :--- |
| ＂Any＂selection | $\mathrm{O} 2 \downarrow$ |
| ＂Column＂selection | $\mathrm{O} 1 \downarrow$ |
| ＂Single＂selection | $\mathrm{O0} \downarrow$ |

## PROGRAMMING DOOR PHONE STAIRCASE LIGHT BUTTON USER CODES AND CALLING STATION IDS

The special decoder has four memory positions（X1，X2，X3，X4）for programming user codes and calling station IDs．
Letter＂C＂is used for programming user codes．

| Value to be programmed | Keyboard command |
| :--- | :--- |
| User code abcd programmed <br> in position 1 | CabcdX1 $\downarrow$ |
| User code abcd programmed <br> in position 2 | CabcdX2 $\downarrow$ |
| User code abcd programmed <br> in position 3 | CabcdX3 $\downarrow$ |
| User code abcd programmed <br> in position 4 | CabcdX4 $\downarrow$ |

＂abcd＂is any user code（either numeric or with letter prefix from A to $J$ or with letter suffix from A to J）．
Example：C1001X1」，C0032X1」，C178HX1，CG192X1」．
Letter＂ P ＂is used for programming main calling station codes，letter ＂$S$＂is used for secondary stations．

| Value to be programmed | Keyboard command |
| :---: | :---: |
| Main station nm programmed in position 1 | PnmX1 |
| Main station nm programmed in position 2 | PnmX2 |
| Main station nm programmed in position 3 | PnmX3 |
| Main station nm programmed in position 4 | PnmX4 |
| Secondary station b programmed in position 1 | SbX1」 |
| Secondary station b programmed in position 2 | SbX2 |
| Secondary station b programmed in position 3 | SbX3」 |
| Secondary station b programmed in position 4 | SbX4 |

nm is the main station number from 01 to 12.
b is the secondary station number from 0 to 9 or from A to J ．
Example：P11X1」，S1X1」，SBX1」．

## 2ND EDITION SYSTEM PROGRAMMING EXAMPLES

1．Switching staircase lights on for 60 s after receiving commands from door phones in column 1 in the system．
Program the special decoder as follows：

| Toggle | M0」 |
| :---: | :---: |
| Time：60s | D60」 |
| Control：column | O1」 |
| Column codes 1 | C1000X1」（1） |
| Deactivated function buttons | F1AOd；F2A0」；F3A0」；F4AO」 |

（1）If the special decoder was previously programmed with codes in memory locations X2，X3，X4，reprogram these locations with the same value as cell X 1 to avoid undesired activation．

2．Switching lights in common areas for 90 s after receiving commands from door phones in columns 2， 3 and 4 in the system and switchboard button F1．
Program the special decoder as follows：

| Toggle | MO」 |
| :---: | :---: |
| Time：90s | D90」 |
| Control：column | O1」 |
| Column codes 1 | C2000X1」；C3000X2」；C4000X3」（2） |
| Function button F1 active | F1A1d；F2A0」；F3A0」；F4AOd |

（2）If the special decoder was previously programmed with codes in memory location X4，reprogram this location with the same value as cell X1（or X2 or X3）to avoid undesired activation．

3．Switching lights in common areas for 50 s after receiving commands from main calling stations with ID＝ 1 and ID＝ 2 only．
Program the special decoder as follows：

| Toggle | MO」 |
| :---: | :---: |
| Time：50s | D50」 |
| Control：single | O1」 |
| Codes ID＝1 and ID＝2 | P01X1」；P02X2」（3） |
| Deactivated function buttons | F1AOd；F2AOd；F3AOd；F4AO」 |

（3）If the special decoder was previously programmed with codes in memory locations X3 and X4，reprogram these locations with the same value as cell X1（or X2）to avoid undesired activation．

4．Switching lights in common areas for 35 s after receiving commands from all main calling stations in the system and from switchboard button F4．
Program the special decoder as follows：

| Toggle | M0」 |
| :---: | :---: |
| Time：35s | D35」 |
| Control：column（＊） | O1」 |
| Main codes（＊） | P01X1」（4） |
| Deactivated function buttons | F1AOd；F2A0」；F3A0」；F4A1」 |

（＊）：The main calling stations are considered as belonging to the same column（different from all other columns in the system）．
（4）If the special decoder was previously programmed with codes in memory locations X2，X3，X4，reprogram these locations with the same value as cell X 1 to avoid undesired activation．

5．Switching all lights on／off following command from all door phones and calling stations（switchboard F1 switches on and F4 switches off）．
Program the special decoder as follows：

| Bistable | M1」 |
| :---: | :---: |
| Time：indifferent | Do not program |
| Control：Any | O2」 |
| Codes：indifferent | Do not program |
| Function buttons F1 and F4 active | F1A1d；F2A0」；F3A0」；F4A1」 |

## Example with max．load 1kW

SC124－0029


Example with load exceeding 1 kW

## SC124－0029



BIBUS PABX INTERFACE Ref．1072／67 C $\in$


## PERFORMANCE

The PABX 1072／67 interface is used to connect a telephone switchboard Mod． 1332 or 1342 to a BiBus 1st or 2nd edition column． Features include：
－A door phone call or floor call will make all the telephones connected to the PABX ring．
－The door can be opened from the call station which took the call
－Call to concierge switchboard．
－Special decoder control．
－Possibility of connecting two BiBus door phones in parallel（2nd edition system only）．
4
This device is used in door phone systems only．

## STRUCTURE

The interface consists of the following parts：


1．Protective cover
2．Memo label
3．Bus connection terminal board and floor call button
4．Programming button and LED
5．Code clearing jumper（W1）
6．PABX and optional video module connection terminal boards

| UTPMET | BIBUS PABX INTERFACE Ref. 1072/67 |  |
| :---: | :---: | :---: |
|  | DESCRIPTION OF TERMINAL BOARDS - TECHNICAL SPECIFICATIONS operation-Installation |  |

## DESCRIPTION OF TERMINAL BOARDS

| L1 | Bus connection on door phone side |
| :--- | :--- |
| L2 | Bus connection on door phone side |
| C1 | Floor call button |
| C2 | Floor call button |
|  |  |
| 1 | Speaker |
| 2 | Microphone |
| 6 | Earth reference |
| CA1 | Door phone call |
| 9 | Door opener |
| C | Switchboard call |
| X1 | PABX staircase light control contact |
| X2 | PABX staircase light control contact |
| CV | Video brake control |

## TECHNICAL SPECIFICATIONS

Maximum stand-by consumption:
Working temperature range:
Humidity:
Dimensions ( $\mathrm{L} \times \mathrm{W} \times \mathrm{H}$ )

## OPERATION

- Press the door telephone Mod. 1332 door opener button following a door phone call to open the door.
- If no door telephone is fitted, key in the sequence indicated in the PABX manual (e.g. R35 for PABX Mod. 1332). In this case, the entered code must be completed within 3 seconds from when the first key is pressed (e.g. keys 3 and 5 must be pressed within three seconds after button R for PABX Mod. 1332) for the door opener command to be sent correctly.
- To call a concierge switchboard, pick up the secondary station handset and press the dedicated door telephone Mod. 1332 button. If no door telephone is fitted, key in the sequence indicated in the PABX manual (e.g. R36 for PABX Mod. 1332).
- To control a special decoder, pick up the secondary station handset and press the dedicated door phone Mod. 1332 button. If no door telephone is fitted, key in the sequence indicated in the PABX manual (e.g. R37 for PABX Mod. 1332).
L
Connected telephones will continue to ring until the PABX time-out if BiBus door phones are connected in parallel to the interface and a call is answered by the door phone.


## INSTALLATION

The device must be installed as shown in the figure.


To remove the terminal boards, pull the upwards levering with a screwdriver where needed (see figure).


Four holes are provided in the device for fastening to the wall with expansion bolts diameter 6 mm (not provided).

## WIRE CROSS-SECTION

| Maximum distance | $\mathbf{1 0 ~ m}$ | $\mathbf{5 0} \mathbf{~ m}$ | $\mathbf{1 0 0} \mathbf{~ m}$ | $\mathbf{2 0 0} \mathbf{~ m}$ |
| :--- | :---: | :---: | :---: | :---: |
| Between: <br> -PABX <br> -PABX interface | $0.5 \mathrm{~mm}^{2}$ |  |  |  |
| Between: <br> -Bus coupler <br> -PABX interface | $0.75 \mathrm{~mm}^{2}$ |  |  |  |

## CONNECTING THE VIDEO MODULE

The wire used for connecting the video bracket is NOT provided. Use the wire provided with the bracket and proceed as follows.

1) Cut one of the two wire connectors.

2) Extend the wire.

3) Connect the wire to the $1072 / 67$ respecting the polarity shown in the figure.


## PROGRAMMING AND DELETING

The interface is equipped with a single integrated decoder. Consequently, the programming sequence is the same as that of a BiBus door phone.
Press the button on a door unit and digitiser (or the name button on a call module with repertory), go to the interface and release the programming button.
The LED will blink to confirm that the programming operation is complete.
To delete programmed data, hold the programming button pressed and short-circuit the W1 jumper.
The LED will blink to confirm that the deletion is complete.
The LED will blink also following a door phone call or floor call.

## WIRING DIAGRAM



## POWER LINE PROTECTION DEVICE 230Vac 4000VA Ref. 1332/85 C $\epsilon$



This is a voltage surge varistor power line protection device. The device immediately trips to limit amplitude and preserve the devices installed downstream to the device in the presence of voltage surges generated by atmospheric events. Install a power line filter 230V 4000VA Ref. 1332/86 downstream to the power protection device to ensure better system operation.
Level of protection:
as per standard IEC 61643-1 and A1: class III with Uoc 6 kV

## INSTALLATION

The device must be fastened on a DIN bar in a closed electrical panel.
Check electrical connections before powering the circuit.
Locate the phase wire with a power phase finder connected to terminal " 1 ", IN side.

## IMPORTANT

The device must be protected by fitting appropriate restricted earthfault protection with current flow equal to 18A and differential switch with opening current equal to 30 mA . The protection device must be connected to earth. Device efficacy will be better at lower earth system resistance. For this reason, the system must comply with standards CEI 64-8/1 V1 edition 01/2001 booklet 5902.Implement specifications in CEI 64-8/4 edition 01/1998 booklet 4134 on safety.

## SPECIFICATIONS

Power protection with tripping tension $\geq 300$ Veff.
On two self-extinguishing DIN modules.
Nominal voltage: 230Vac
Maximum voltage: 255Vac
Maximum current: 20A
Working frequency: 50Hz
Power:
4000VA
Temperature range:
$-25^{\circ} \mathrm{C}+40^{\circ} \mathrm{C}$


## POWER LINE FILTER 230Vac 4000VA Ref. 1332/86 ( $\epsilon$



This is a two-cell,high-attenuation,one-phase filter for frequencies $>0.1$ MHz active on common and differential mode interference. The device is intended to prevent the propagation of external radiofrequency interference on the power mains which could cause faults in the electrical and electronic devices connected to the mains.Install a power line protection device 230V 4000VA Ref.1332/85 upstream to the power filter to ensure better system operation.

## INSTALLATION

The device must be fastened on a DIN bar in a closed electrical panel.
Check electrical connections before powering the circuit.
Locate the phase wire with a power phase finder connected to terminal " 1 ", IN side.

## IMPORTANT

The device must be protected by fitting appropriate restricted earthfault protection with current flow equal to 18 A and differential switch with opening current equal to 30 mA . The power filter device must be connected to earth.Filter efficacy will be better at lower earth system resistance.For this reason,the system must comply with standards CEI 64-8/1 V1 edition 01/2001 booklet 5902.Implement specifications in CEI 64-8/4 edition 01/1998 booklet 4134 on safety.

## SPECIFICATIONS

One-phase, two-cell, high-attenuation filter for common and differential interference $\mathrm{f}>0.1 \mathrm{Mhz}$.
On two self-extinguishing DIN modules.
Nominal voltage:
230 Vac
Maximum voltage:
255Vac
Working frequency:
Attenuation:
Maximum current:
2 MHz
Power:
20A
Temperature range:
4000VA
$-25^{\circ} \mathrm{C}+40^{\circ} \mathrm{C}$

POWER LINE PROTECTION DEVICE Ref. 1332/80 ( $\epsilon$


The power line protection device protects electronic devices in general - and telephone devices in particular - from power surges and interference on the 230V power line.
The Urmet Domus protection device Ref. 1332/80 is equipped with a re-arming thermal switch.
The presence of output voltage is indicated by a red warning light. The thermal switch trips and cuts off power to utilities in the presence of output current in excess of 2A (eff). The power warning light goes out and the re-arm button springs out from the casing. To re-arm the device, press the re-arm button until it clicks. Re-arming will not be possible in the presence of short-circuit or excessive output load.
The device is built according to the following standards:
CEI 103-1/12: Protection of indoor telephone systems.
CEI 70-1: Degree of protection classification for casings.
The device is CE marked.

## INSTALLATION

The device may be fastened to the wall by means of the bracket provided or fitted on a DIN bar.
Lever as shown in the figure to access the connection terminals.
The connections are made using screw type terminal strips. The maximum cross-section area of the wires to be connected to the terminal boards is $1.5 \mathrm{~mm}^{2}$.
Check electrical connections before powering the circuit.
Locate the live wire with a power phase finder and connected to terminal "L".
The device is equipped with a re-arming fuse which cuts off the circuit in the presence of overload or short-circuit in the utility circuit. Press the button on the top of the casing to re-arm the circuit. The red warning light will indicate the presence of network voltage.


## IMPORTANT

The ground terminal of the power line protection device must be connected to the electrical system ground.
Device efficacy will be better at lower ground system resistance.
The system must comply with CEI 64-8/5, 10/1992, booklet 1920 standards.
Install in accordance with CEI 64-8/4 10/1992 booklet 1919 standards concerning safety matters.

Be careful to connect the live and neutral wires correct to the respective terminals.

## TECHNICAL FEATURES

| Power voltage: | $230 \mathrm{Vac} \pm \mathbf{1 0 \%} 50 / 60 \mathrm{~Hz}$ |
| :--- | ---: |
| Max Power: | $-5+45^{\circ} \mathrm{C}$ |
| Temperature: | self-extinguishing plastic |
| Casing material: | $95 \%$ UR max |
| Humidity: |  |
|  |  |
| WIRING DIAGRAM |  |



## MULTIPOLAR WIRE FOR VOP SYSTEMS Ref. 1074/90



A specific multipolar wire for connecting both the door phone and the video signal is offered by Urmet Domus for connecting column devices in Bibus 2nd edition VOP systems.

Wire 1074/90 must be used to ensure video signal transmission to maximum distance with maximum quality; characteristics of the wire are:

- Multipolar wire consisting of two twisted pairs in external PVC sheath; one pair is used to connect L1, L2 (white, light blue $0.75 \mathrm{~mm}^{2}$ ); the other is used to connect the VP video (red, black $1 \mathrm{~mm}^{2}$ ).
- Video pair impedance: 1000hm.

The wire is provided in 100 metre reels.

## SUPPLEMENTARY THREE-TONE RINGING FOR BIBUS Ref. 1072/59



The two-tone supplementary ringer Ref. 1072/59 can only be used with door phone or video door phone with the terminals (or wires) S+ and S- or with the switchboards Ref. 1072/42. The ringer power must be self-standing (by means of 9 V battery 6AM6-6LF22) because it cannot be powered by the apartment station.

The ringer is equipped with two jumpers indicated by W1 and W2. Remove one of the two jumpers for two-tone or one-tone operation as shown in the following table:

| SOUND TYPE | JUMPERS |  |  |
| :--- | :---: | :---: | :--- |
|  | W1 | W2 |  |
| THREE-TONE | X | X | Both jumpers inserted |
| TWO-TONE | X |  | Jumper W1 only; remove W2 |
| ONE-TONE |  | X | Jumper W2 only; remove W1 |

Ringer connection on a door phone
SC124-0077A


Ringer connection on a switchboard



## WIRELESS CALL REPEATER Ref. 4311/13



The Ref. 4311/13 can be used to radio transmit the call signal from a door phone system or video door phone to a Mistral receiver.
The Ref. 4311/13 call repeater can be used in combination with the following ringers:

- Ringer with a range of up to 200 m ,
flash and powering by batteries or power supply unit Ref. 4311/2
- Ringer with a range of up to 150 m ,
flash and 230Vac powering from the electricity mains Ref. 4311/3
Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems" for ringers, features and installation procedures.

The product may be installed in parallel to door phones or video door phones.
The device is ready to be powered by a 9V battery (not included) which ensures system operation also in unfavorable conditions. The battery must be replaced approximately every two years or when the device performance degrades.

## TECHNICAL SPECIFICATIONS

Power:
Transmission frequency:
Dimensions ( $\mathrm{L} \times \mathrm{H} \times \mathrm{P}$ ):
Working temperature range:
alkaline 6LR61 9V battery $868,35 \mathrm{MHz}$
$85 \times 85 \times 30 \mathrm{~mm}$
$+5 \div 40^{\circ} \mathrm{C}$

## INSTALLATION

Install the device away from sources of heat and in a place protected from humidity and water sprays.
Be very careful when handling printed circuit components and particularly the metallic antenna during installation and programming. The metallic antenna must not be moved from its original position. Before final installation of the device, make a test call to check that the radio signal is correctly picked up by the receiver.

- Open the product using a screwdriver as a lever in the points shown (A).

- Using the bolts and holes provided (B), fasten when screws the product near the door phone or in a position where the connection wires of the device it can be intercepted.

- Connect to the terminal board as shown in the system diagram below. Do not disconnect the 2-way battery cable from the terminal board.
- Connect the battery (D).
- The signal can be sent to the receiver during programming by pressing the button (C) on the printed circuit. The indicator LED will start blinking.
- For programming the receiver, refer to the wireless ringer instruction paragraph.


## WIRING DIAGRAM



0
The wireless call repeater can only be used with door phones or video door phones with terminals (or wires) S+ and S-.

## INSTALLATION DIAGRAMS

> Basic diagrams for connecting a panel to door phones and video door phones in Bibus $\mathrm{I}^{\wedge}$ ed. VOP systems are illustrated in this section. The complete collection of technical diagrams (including those in this section) may be found at the www.urmetdomus.com web site in the Reserved area "Installation Diagrams".
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## DOOR PHONE SYSTEM DIAGRAM SEARCH TABLE


$\mathrm{K}=$ number of columns with panel

VIDEO DOOR PHONE SYSTEM DIAGRAM SEARCH TABLE


[^5]C4.007 - Sinthesi models only: See instruction booklet provided with product for connecting terminals G/T, $\sim 0$ and $\sim 12$ between modules.

C4.008 - K-Steel models only: all connections are made with terminal boards.

CU. 003 - The door unit must be installed in a suitable set-up 2 -row push-button panel (e.g. Mod. Aura or Mod. 725.

CU. 004 - Always connect SE1 to the positive pole of the electrical lock (if polarised).
If a polarisation diode is used, connect the SE1 terminal to the cathode of this diode.


CU. 005 - Cut and isolate the speaker red wire.

CU. 006 - Insert the connector (provided with product) to $\mathrm{M} / \mathrm{S}$ socket in only one of the bus couplers in the system. This will be the master unit. Each coupler can manage up to 50 door phones/video door phones split on the outputs.

CU. 007 - Maximum number of stations in system.

| Number of <br> main stations | Number of <br> columns with <br> secondary stations | Maximum number <br> of columns without <br> secondary stations | Maximum <br> number <br> of couplers |
| :---: | :---: | :---: | :---: |
| 1 | 10 | 0 | 10 |
| 2 | 10 | 0 | 10 |
| 3 | 9 | 3 | 12 |
| 4 | 8 | 4 | 12 |
| 5 | 7 | 5 | 12 |
| 6 | 6 | 6 | 12 |
| 7 | 5 | 7 | 12 |
| 8 | 4 | 8 | 12 |
| 9 | 3 | 9 | 12 |
| 10 | 2 | 10 | 12 |
| 11 | 1 | 11 | 12 |
| 12 | 0 | 12 | 12 |

CU. 008 -MINIMUM WIRE CROSS-SECTION AREAS
FROM MASTER COUPLER TO ANY DEVICE CONNECTED ON MAIN SIDE

| Distance | m | 50 | 100 | 200 | 400 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Wires <br> L1, L2 <br> $\sim 0 *, ~ \sim 12 *$ | mmq | 0,75 | 0,75 | 1,5 | 2,5 |
| FROM COUPLER TO MOST <br> APARTMENT STSTATION OR | SPECIAL |  |  |  |  |
| Distance | m | 50 | 100 | 200 | -- |
| Wires <br> L1, L2 | mmq | 0,75 | 0,75 | 0,75 | $-\mathbf{-}$ |

FROM COUPLER TO SECONDARY STATION

| Distance | m | 50 | 100 | 200 | -- |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Wires <br> L1, <br> $\sim 0$ 2,$~$ <br> $\sim 12 *$ | mmq | 0,75 | 0,75 | 1,5 | -- |

FROM COUPLER TO DOOR LOCK CONNECTED
TO DOOR UNIT WITH DIGITISER

| Distance | m | 50 | 100 | 200 | 400 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Wires <br> $\sim 0 *, \sim 12 *$ | mmq | 0,75 | 0,75 | 1,5 | 2,5 |


| Distance | m | 50 | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Wires } \\ & \text { SE1, SE2 } \end{aligned}$ | mmq | 1,5 | - - | - - | - - |

NOTE: * Sections shown in table refer also to use of transformer ref. 9000/230 (for wires ~0 and ~12). CAUTIONS
Lay the bus wires (L1 - L2) at a suitable distance from the power lines (more than 10 cm ).

Refer to telephone installation regulations if the use of common conduits cannot be avoided (with a metallic partition).
Avoid laying door unit bus wires in the same conduits with apartment station bus wires.
Avoid arranging apartment station bus wires leading to different couplers in the same conduit.

## Extension limit of the system.

The sum of all bus sections on main station side must be less than 800 m . The sum of all bus sections on door phone side of a coupler must be less than 800 m .

## CU. 009 - Provide two wires for

 switching on the push-button panel light bulbs.Use a power transformer suitable to the number of light bulbs.
Use of transformer Ref. 9000/230 is recommended for up to five bulbs (max 15 W ).

CU. 010 - only in the K-Steel door unit there are:
a) terminal board 0~ and 12~ (lighting) b) terminal board $C, 1$ and 2 (call button)

INSTALLATION DIAGRAMS
DIAGRAM NOTES

VD. 002 - See the chapter "Demister power" in the chosen product manual for K-Steel camera modules only.

VD. 007 = Floor call button.

VU. 002 - Follow the instructions provided with the product for fitting the camera.

VU. 003 - Use the wire (provided) to connect the switchboard to the video module. Connect the long terminal to terminal CV and the short terminal to GND.
vu. 005 - WIRE CROSS-SECTION AREA

| FROM BUS COUPLER/VOP POWER UNIT TO DOOR PHONES |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Distance | m | 50 | 100 | 200 | - - |
| Wires VPI,VPU, L1, L2 | Important! <br> Use ref. 1074/90 wire only. |  |  |  |  |
| FROM VOP POWER UNIT TO main Station Street side |  |  |  |  |  |
| Distance | m | 50 | 100 | 200 | 400 |
| Wires R1, R2 | mmq | 0,75 | 0,75 | 1,5 | 2,5 |
| $\begin{aligned} & \text { Wires } \\ & \text { A, B } \end{aligned}$ | ```Important! Use AWG22 double telephone wire only.``` |  |  |  |  |

FROM VOP POWER UNIT TO SECONDARY STATIONS STREET SIDE

| Distance | m | 50 | 100 | 200 | -- |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Wires <br> R1, R2 | mmq | 0,75 | 0,75 | 1,5 | -- |
| Wires <br> R | mmq | 0,5 | 1 | 1,5 | -- |
| Wires <br> $\mathrm{A}, \mathrm{B}$ | Important! <br> Use AWG22 double <br> telephone wire only. |  |  |  |  |

PILOT SIGNAL

| PILOT SIGNAL |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Distance | m | 10 | -- | -- | -- |
| Wires <br> CM, GND | mmq | 0,5 | -- | -- | -- |

vx. 006 - See the instruction book provided with the product for fitting the accessory in the device.
vx.014 - Dusk switch or similar device for switching lights on, where relevant.

The number of devices shown by an $X$ must be evaluated according to the system type to be made.

D OMUS

## SC124-0072D

DOOR PHONE REFERENCES

Basic door phone "A" Mod. Atlantico
Door phone with multiple ringer tones " B " Mod. Atlantico Mod. Utopia


LInclude all door phones connected in parallel to the count.
N. X Supplementary rings

Ref. 1072/59


The supplementary rings can only be used with door phones with multiple ringer tones.

## OUTDOOR STATION REFERENCES

## Sinthesi mode

N. 1 Calling module

Ref. 1072/13
The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "Sinthesi calling module" for respective diagrams and installation methods.

## or

K-Steel model
N. 1 Calling module

Ref. 1072/14
The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "K-Steel calling module" for respective diagrams and installation methods.

## POWER SUPPLY AND BUS COUPLER REFERENCES

N. 1 Bus coupler

Ref. 1072/24

SWITCHBOARD REFERENCES (OPTIONAL)
N. 1 Concierge switchboard
N. 1 Door phone switchboard transformer

Ref. 1072/42 Ref. 9000/230

## BLOCK CHART



## DIAGRAM NOTES

(see beginning section)
CU. 004
CU. 006
CU. 008
VD. 007
$\qquad$

CONNECTION OF 1 DOOR PHONE COLUMN TO 1 DOOR UNIT WITH CALLING MODULE AND TO 1 DOOR PHONE SWITCHBOARD
DOMUS
$\qquad$
SC124-0072D


D O M U S

SC124-0073G
DOOR PHONE REFERENCES
N. 50 Basic door phone "A" Mod. Atlantico

Ref. 1172/40
Door phone with multiple
ringer tones " $B$ " Mod. Atlantico Mod. Utopia

Ref. 1172/45
Ref. 1172/46
LInclude all door phones connected in parallel to the count.
N. X Supplementary rings

Ref. 1072/59
The supplementary rings can on
with multiple ringer tones.
OUTDOOR STATION REFERENCES

Sinthesi model
N. X Push button modules
N. 1 Module with door unit
N. X 16-user expansion module

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", Sinthesi panel section for diagrams and installation procedures.

## or

K-Steel model
N. X Push button modules Ref. 1155/11-/12A-/13A-/14A
N. 1 Module with door unit and 2 buttons Ref. 1072/5
N. X 16-user expansion module Ref. 1038/17

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", K-Steel vandal-proof modular panel section for diagrams and installation procedures.

POWER SUPPLY AND BUS COUPLER REFERENCES

N. 1 Bus coupler

Ref. 1072/24 Ref. 9000/230

## BLOCK CHART



## DIAGRAM NOTES

(see beginning section)
C4.007
C4.008
CU.003
CU. 006
CU. 008
CU. 009
CU. 010
VD.007
VX. 006
VX. 014
(see beginning section)
C4.007
C4.008
CU. 003
CU. 006 CU. 009
CU. 010 VX. 006
VX. 014

## SC124-0074F

DOOR PHONE REFERENCES

| N. 250 | Basic door phone "A" |
| :--- | :--- |
| or | Mod. Atlantico |
| Door phone with multiple  <br> ringer tones "B" Mod. Atlantico <br>  Mod. Utopia |  |

Ref. 1172/40

Ref. 1172/45
Ref. 1172/46
\& Include all door phones connected in parallel to the count.
N. X Supplementary rings

Ref. 1072/59
The supplementary rings can o
with multiple ringer tones.
OUTDOOR STATION REFERENCES

## WITH CALLING MODULE



Sinthesi model
N. Y Calling module

Ref. 1072/13
The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "Sinthesi calling module" for respective diagrams and installation methods.

## or

## K-Steel model

N. Y Calling module

Ref. 1072/14
The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "K-Steel calling module" for respective diagrams and installation methods.

OUTDOOR STATION REFERENCES
WITH TRADITIONAL PUSH BUTTON

Sinthesi model
N. X Push button modules

Ref. 1145/11-/12-/13-/14
N. Y Module with door unit Ref. 1072/7
N. X 16-user expansion module

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", Sinthesi panel section for diagrams and installation procedures.

## or

## K-Steel model

N. X Push button modules Ref. 1155/11-/12A-/13A-/14A
N. Y Module with door unit and 2 buttons Ref. 1072/5
N. X 16-user expansion module

Ref. 1038/17
The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", K-Steel vandal-proof modular panel section for diagrams and installation procedures.

POWER SUPPLY AND BUS COUPLER REFERENCES
N. K Bus coupler

Ref. 1072/24

SWITCHBOARD REFERENCES (OPTIONAL)
N. 1 Concierge switchboard

Ref. 1072/42
N. 1 Door phone switchboard transformer

## BLOCK CHART



## DIAGRAM NOTES

(see beginning section)
C4.007 C4.008
CU. 003 CU. 004 CU. 006 CU. 008 CU. 009 CU. 010
VD. 007 VX. 006 VX. 01
$\mathrm{K}=$ columns number
$Y=$ outdoor station number
$\qquad$

CONNECTION OF UP TO 12 DOOR PHONE COLUMNS TO UP TO 12 DOOR UNITS AND TO 1 DOOR PHONE SWITCHBOARD The door units may have a calling module or traditional panel

SC124-0074F


CONNECTION OF N DOOR PHONE COLUMNS TO N DOOR UNITS AND TO 1
DOOR PHONE SWITCHBOARD
urmet
Each column is additionally connected to a specific secondary door unit The door units may have a calling module or traditional panel

## SC124-0083E

DOOR PHONE REFERENCES

| N. 250 | Basic door phone "A" |
| :--- | :--- | Mod. Atlantico



Ref. 1172/40

Ref. 1172/45
Ref. 1172/46

LInclude all door phones connected in parallel to the count.
N. X Supplementary rings

Ref. 1072/59
CA
CA
Sin
N. Y

or
The supplementary rings can only be used with door phones with multiple ringer tones.

CALLING MODULE REFERENCES


Sinthesi model
N. Y Calling module

The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "Sinthesi calling module" for respective diagrams and installation methods.

K-Steel model
N. Y Calling module

Ref. 1072/14
The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "K-Steel calling module" for respective diagrams and installation methods.

## PUSH BUTTON REFERENCES

Sinthesi model
$\begin{array}{llr}\text { N. X } & \text { Push button modules } & \text { Ref. 1145/11-/12-/13-/14 } \\ \text { N. Y } & \text { Module with door unit } & \text { Ref. 1072/7 }\end{array}$
Ref. 1038/17
The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", Sinthesi panel section for diagrams and installation procedures.
or
K-Steel model
$\begin{array}{llr}\text { N. X } & \text { Push button modules } & \text { Ref. 1155/11-/12A-/13A-/14A } \\ \text { N. Y } & \text { Module with door unit and 2 buttons } & \text { Ref. 1072/5 } \\ \text { N. X } & \text { 16-user expansion module } & \text { Ref. 1038/17 }\end{array}$
The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", K-Steel vandal-proof modular panel section for diagrams and installation procedures.

## POWER SUPPLY AND BUS COUPLER REFERENCES

N. K Bus coupler

Ref. 1072/24

SWITCHBOARD REFERENCES (OPTIONAL)
N. 1 Concierge switchboard
N. 1 Door phone switchboard transformer

## BLOCK CHART



## DIAGRAM NOTES

## (see beginning section)

C4.007
C4.008
CU. 003
CU. 004
CU. 006
CU. 008
CU. 009
CU. 010
VD. 007
VX. 006
VX. 014
$\mathrm{K}=$ columns number
$Y=$ outdoor station number

CONNECTION OF N DOOR PHONE COLUMNS TO N DOOR UNITS AND TO 1 DOOR PHONE SWITCHBOARD
Each column is additionally connected to a specific secondary door unit The door units may have a calling module or traditional panel
SC124-0083E


## SV124-0247B

VIDEO DOOR PHONE REFERENCES

Mod. Atlantico
N. 50 Video door phone
N. 50 Bracket
or
Mod. Artico
Mod. Artico
N. $50 \quad$ Video door phone
Ref. 1705/1
N. 50 Bracket

Ref. 1705/954
E Include all video door phones connected in parallel to the count.

| VIDEO OUTDOOR STATION REFERENCES |  |
| :---: | :---: |
|  |  |
| Sinthesi model |  |
| N. 1 Calling module | Ref. 1072/13 |
| N. 1 Camera module | Ref. 1745/70 |
| N. 1 Video adapter | Ref. 1742/13A |

The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "Sinthesi calling module" for respective diagrams and installation methods.
or
K-Steel model
N. 1 Calling module

Ref. 1072/14
N. 1 Camera module

Ref. 1755/30A
The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "K-Steel calling module" for respective diagrams and installation methods.

POWER SUPPLY AND BUS COUPLER REFERENCES

N. 1 Bus coupler

Ref. 1072/24
N. 1 Video VOP power unit Ref. 1074/20
N. X Floor video distributor Ref. 1074/54 Ref. 1074/90 SWITCHBOARD REFERENCES (OPTIONAL)
N. 1 Concierge switchboard

Ref. 1072/42
N. 1 Door phone switchboard transformer

## BLOCK CHART



## DIAGRAM NOTES

(see beginning section)
CU. 004
CU. 006
VD. 002
VD. 007
VU. 002 VU. 005
VU. 006
VX. 008


D O M U S

## SV124-0230C

VIDEO DOOR PHONE REFERENCES

Mod. Atlantico
N. 50 Video door phone
N. 50 Bracket

Ref. 1702/1 Ref. 1202/954

Mod. Artico
N. 50 Video door phone

Ref. 1705/1
N. 50 Bracket
4. Include all video door phones connected in parallel to the count.

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model
N. 1 Calling module
N. 1 Camera module
N. 1 Video adapter


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Ref. 1072/13
Ref. 1745/70
Ref. 1742/13A

The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "Sinthesi calling module" for respective diagrams and installation methods.
or
K-Steel model
N. 1 Calling module

Ref. 1072/14
N. 1 Camera module Ref. 1755/30A

The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "K-Steel calling module" for respective diagrams and installation methods.

POWER SUPPLY AND BUS COUPLER REFERENCES
N. 1 Bus coupler
N. 1 Video VOP power unit
N. X Multipolar cables for VOP system

Ref. 1072/24
Ref. 1074/20 Ref. 1074/90

SWITCHBOARD REFERENCES (OPTIONAL)
N. 1 Concierge switchboard
N. 1 Door phone switchboard transformer

Ref. 1072/42 Ref. 9000/230

## BLOCK CHART



## DIAGRAM NOTES

(see beginning section)
CU. 004
CU. 006
VD. 002
VD. 007
VU. 002
VU. 005 VU. 006
VX. 008

CONNECTION OF 1 VIDEO DOOR PHONE COLUMN TO 1 VIDEO DOOR UNIT WITH CALLING MODULE AND TO 1 DOOR PHONE SWITCHBOARD Example of video door phone in－out connection


CONNECTION OF 1 VIDEO DOOR PHONE COLUMN TO 1 VIDEO DOOR UNIT WITH CALLING MODULE AND TO 1 DOOR PHONE SWITCHBOARD WITH VIDEO MODULE

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## Video floor connection via 4-user decoders

## SV124-0224B

VIDEO DOOR PHONE REFERENCES

Mod. Atlantico
N. 50 Video door phone
N. 50 Bracket

Ref. 1702/1 Ref. 1202/954

Mod. Artico
N. 50 Video door phone

Ref. 1705/1
N. 50 Bracket

Include all video door phones connected in parallel to the count.

VIDEO OUTDOOR STATION REFERENCES

Sinthesi model
N. 1 Calling module
N. 1 Camera module
N. 1 Video adapter

Ref. 1072/13
Ref. 1745/70
Ref. 1742/13A
The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "Sinthesi calling module" for respective diagrams and installation methods.
or
K-Steel model
N. 1 Calling module

Ref. 1072/14
N. 1 Camera module Ref. 1755/30A

The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "K-Steel calling module" for respective diagrams and installation methods.

## POWER SUPPLY AND BUS COUPLER REFERENCES

N. 1 Bus coupler
N. 1 Video VOP power unit
N. 1 Video distributor
N. 1 Local power supply
N. 1 Door phone switchboard transformer
N. X Floor video distributor
N. X Multipolar cables for VOP system


Ref. 1072/24
Ref. 1074/20
Ref. 1795/40
Ref. 789/2 Ref. 9000/230 Ref. 1074/54 Ref. 1074/90 SWITCHBOARD REFERENCES
N. 1 Concierge switchboard

Ref. 1072/42

Ref. 1732/1
Ref. 1732/957
N. 1 Video module
$\begin{array}{ll}\text { N. } 1 & \text { Video modul } \\ \text { N. } 1 & \text { Bracket }\end{array}$

## BLOCK CHART



DIAGRAM NOTES
(see beginning section)
CU. 004
CU. 006
VD. 002
VD. 007
VU. 002
VU. 003
VU. 005
VU. 006
VX. 008
$\qquad$


## SV124-0248B

VIDEO DOOR PHONE REFERENCES

Mod. Atlantico
N. 50 Video door phone
N. 50 Bracket

## BLOCK CHART



## DIAGRAM NOTES

## (see beginning section)

C4.007
C4.008
CU. 003
CU. 006
CU. 009
CU. 010
VD. 002 VD. 007
VU. 002
VU. 005 VX. 006 VX. 008 VX. 014

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## Mod. Artico

N. 50 Video door phone

Ref. 1705/1
N. 50 Bracket

Include all video door phones connected in parallel to the count.

## VIDEO OUTDOOR STATION REFERENCES

## Sinthesi model

N. X Push button modules
N. 1 Module with door unit
N. X 16-user expansion module
N. 1 Camera module
N. 1 Video adapter

Ref. 1145/11-/12-/13-/14 Ref. 1072/7 Ref. 1038/17 Ref. 1745/70 Ref. 1742/13A

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", Sinthesi panel section for diagrams and installation procedures.
or
K-Steel model
N. X Push button modules

Ref. 1155/11-/12A-/13A-/14A
N. 1 Module with door unit and 2 buttons Ref. 1072/5
N. X 16-user expansion module Ref. 1038/17

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", K-Steel vandalproof modular panel section for diagrams and installation procedures.

POWER SUPPLY AND BUS COUPLER REFERENCES

N. 1 Bus coupler
N. 1 Video VOP power unit
N. X Floor video distributor
N. X Multipolar cables for VOP system

Ref. 1072/24
Ref. 1074/20 Ref. 1074/54 Ref. 1074/90

## SWITCHBOARD REFERENCES (OPTIONAL)

N. 1 Concierge switchboard
N. 1 Door phone switchboard transformer

Ref. 1072/42 Ref. 9000/230
$\qquad$

SV124-0248B


DOMUS

## SV124-0235C

VIDEO DOOR PHONE REFERENCES

Mod. Atlantico
N. 50 Video door phone
N. 50 Bracket

Ref. 1702/1 Ref. 1202/954

## Mod. Artico

N. 50 Video door phone

Ref. 1705/1
N. 50 Bracket

4 Include all video door phones connected in parallel to the count.

VIDEO OUTDOOR STATION REFERENCES

## Sinthesi model

N. X Push button modules
N. 1 Module with door unit
N. X 16-user expansion module
N. 1 Camera module
N. 1 Video adapter


Ref. 1145/11-/12-/13-/14 Ref. 1072/7 Ref. 1038/17 Ref. 1745/70 Ref. 1742/13A

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", Sinthesi panel section for diagrams and installation procedures.
or
K-Steel model
$\begin{array}{llr}\text { N. X } & \text { Push button modules } & \text { Ref. 1155/11-/12A-/13A-/14A } \\ \text { N. } & \text { Module with door unit and 2 buttons } & \text { Ref. 1072/5 } \\ \text { N. X } & \text { 16-user expansion module } & \text { Ref. 1038/17 } \\ \text { N. } 1 & \text { Camera module } & \text { Ref. 1755/30A }\end{array}$
The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", K-Steel vandalproof modular panel section for diagrams and installation procedures.

POWER SUPPLY AND BUS COUPLER REFERENCES
N. 1 Bus coupler
N. 1 Video VOP power unit
N. X Multipolar cables for VOP system

Ref. 1072/24
Ref. 1074/20 Ref. 1074/90

SWITCHBOARD REFERENCES (OPTIONAL)
N. 1 Concierge switchboard

Ref. 1072/42 Ref. 9000/230

## BLOCK CHART



## DIAGRAM NOTES

(see beginning section)
CU. 003
CU. 006
CU. 009
CU. 010
C4.007
C4.008
VD. 002
VD. 007 VU. 002 VU. 005
VU. 006
VX. 006
VX. 008
VX. 014

SV124-0235C


# CONNECTION OF 1 VIDEO DOOR PHONE COLUMN TO 1 VIDEO DOOR UNIT WITH TRADITIONAL PANEL AND TO 1 DOOR PHONE SWITCHBOARD WITH VIDEO MODULE <br> Video floor connection via 4-user decoders 

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DOMUS

## SV124-0234B

VIDEO DOOR PHONE REFERENCES

Mod. Atlantico
N. 50 Video door phone
N. 50 Bracket

## Sinthesi model

N. X Push button modules
N. 1 Module with door unit
N. X 16-user expansion module
N. 1 Camera module
N. 1 Video adapter

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", Sinthesi panel section for diagrams and installation procedures.
or
K-Steel model
N. X Push button modules Ref. 1155/11-/12A-/13A-/14A
N. 1 Module with door unit and 2 buttons Ref. 1072/5
N. X 16-user expansion module Ref. 1038/17

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", K-Steel vandalproof modular panel section for diagrams and installation procedures.

## POWER SUPPLY AND BUS COUPLER REFERENCES



Ref. 1072/24
Ref. 1074/20 Ref. 1795/40 Ref. 789/2 Ref. 9000/230 Ref. 1074/54
N. 1 Bus coupler
N. 1 Video VOP power unit
N. 1 Video distributor
N. 1 Local power supply
N. 1 Transformer
N. X Floor video distributor
N. X Multipolar cables for VOP system

Ref. 1074/90
N. 1 Concierge switchboard
N. 1 Video module
N. 1 Bracket
N. 1 Doorphone switchboard transformer

## SWITCHBOARD REFERENCES

Ref. 1072/42
Ref. 1732/1 Ref. 1732/957

Ref. 9000/230

f. 1072/42


## BLOCK CHART



## DIAGRAM NOTES

## (see beginning section)

CU. 003
CU. 006
CU. 009
CU. 010
C4.007
C4.008
VD. 002
VD. 007
VU. 002 VU. 003 VU. 005 VU. 006 VX. 008 VX. 006
VX. 014


CONNECTION OF 1 VIDEO DOOR PHONE COLUMN TO 1 VIDEO DOOR UNIT WITH TRADITIONAL PANEL AND TO 1 DOOR PHONE SWITCHBOARD WITH VIDEO MODULE
Video floor connection via 4-user decoders


DOMUS

## SV124-0232D

VIDEO DOOR PHONE REFERENCES

Mod. Atlantico
N. 50 Video door phone
N. 50 Bracket

Ref. 1702/1 Ref. 1202/954

Mod. Artico
N. 50 Video door phone

Ref. 1705/1 Ref. 1705/954
4. Include all video door phones connected in parallel to the count.

VIDEO OUTDOOR STATION REFERENCES


Sinthesi model
$\begin{array}{ll}\text { N. } 2 & \text { Calling module } \\ \text { N. } 2 & \text { Camera module } \\ \text { N. } 2 & \text { Video adapter }\end{array}$

Ref. 1072/13
Ref. 1745/70
Ref. 1742/13A

The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "Sinthesi calling module" for respective diagrams and installation methods.
or
K-Steel model
N. 2 Calling module

Ref. 1072/14
N. 2 Camera module

Ref. 1755/30A
The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "K-Steel calling module" for respective diagrams and installation methods.

Refer to "Product Technical Manual - Door Phone and Video Door Phone systems", K-Steel vandal-proof modular panel section.

POWER SUPPLY AND BUS COUPLER REFERENCES

N. 1 Bus coupler
N. 1 Video VOP power unit
N. 1 Transformer

Ref. 1072/24
Ref. 1074/20
Ref. 9000/230
Ref. 788/52
Ref. 1074/54
Ref. 1074/90
N. X Floor video distributor
N. X Multipolar cables for VOP system

SWITCHBOARD REFERENCES (OPTIONAL)
N. 1 Concierge switchboard

Ref. 1072/42 Ref. 9000/230

## BLOCK CHART

## DIAGRAM NOTES

(see beginning section)
CU. 004
CU. 006
VD. 002
VD. 007
VU. 002
VU. 005
VU. 006

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\text { vX. } 008
$$

VX. 008


Video floor connection via 4-user decoders

## SV124-0240C

VIDEO DOOR PHONE REFERENCES

Mod. Atlantico
N. 50 Video door phone
N. 50 Bracket


Ref. 1702/1 Ref. 1202/954

## Mod. Artico

N. 50 Video door phone

Ref. 1705/1
N. 50 Bracket

Include all video door phones connected in parallel to the count.


The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", Sinthesi panel section for diagrams and installation procedures.
or
K-Steel model
$\begin{array}{llr}\text { N. X } & \text { Push button modules } & \text { Ref. 1155/11-/12A-/13A-/14A } \\ \text { N. } 2 & \text { Module with door unit and 2 buttons } & \text { Ref. 1072/5 } \\ \text { N. X } & \text { 16-user expansion module } & \text { Ref. 1038/17 } \\ \text { N. 2 } & \text { Camera module } & \text { Ref. 1755/30A }\end{array}$
The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", K-Steel vandalproof modular panel section for diagrams and installation procedures.

Ref. 1072/24
Ref. 1074/20 Ref. 9000/230 Ref. 788/52 Ref. 1074/54 Ref. 1074/90
N. 1 Bus coupler
N. 1 Video VOP power unit
N. 1 Transformer
N. 1 Relay box
N. X Floor video distributor
N. X Multipolar cables for VOP system

SWITCHBOARD REFERENCES (OPTIONAL)
N. 1 Concierge switchboard
N. 1 Door phone switchboard transformer


Ref. 1072/42 Ref. 9000/230

## BLOCK CHART



## DIAGRAM NOTES

## (see beginning section) <br> CU. 003 <br> CU. 006 <br> CU. 009 <br> CU. 010 <br> C4.007 C4.008 <br> VD. 002 <br> VD. 007 <br> VU. 002 VU. 005 VU. 006 VX. 006 VX. 008 <br> VX. 014

CONNECTION OF 1 VIDEO DOOR PHONE COLUMN TO 2 VIDEO DOOR UNITS WITH TRADITIONAL PANEL AND TO 1 DOOR PHONE SWITCHBOARD Video floor connection via 4-user decoders

SV124-0240C


CONNECTION TO 1 VIDEO DOOR PHONE COLUMN TO 2 VIDEO DOOR PHONE UNITS WITH VARIOUS DISTANCES BETWEEN CALLING MODULE AND POWER

Ref. 1072/24
Ref. 1074/20
Ref. 789/2
N. 1 Video VOP power unit
N. 1 Power supply
N. 1 Transformer

Ref. 9000/230
N. 1 Relay box

Ref. 788/52
N. 1 Extended differential video signal regenerator Ref. 1795/250
N. X Floor video distributor Ref. 1074/54
N. X Multipolar cables for VOP system

Ref. 1074/90
f. 1072/24

SV124-0223B
VIDEO DOOR PHONE REFERENCES

Mod. Atlantico
N. 50 Video door phone
N. 50 Bracket

## BLOCK CHART



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## DIAGRAM NOTES

(see beginning section)
CU. 004
CU. 006 VD. 002 VD. 007 VU. 002 VU. 005 VU. 006 VX. 008


K-Steel model
N. 2 Calling module

Ref. 1072/14

The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "K-Steel calling module" for respective diagrams and installation methods.

POWER SUPPLY AND BUS COUPLER REFERENCES


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D O M U S

## SV124-0227C

VIDEO DOOR PHONE REFERENCES

Mod. Atlantico
N. 50 Video door phone
N. 50 Bracket

Ref. 1702/1 Ref. 1202/954

Mod. Artico
N. $50 \quad$ Video door phone

Ref. 1705/1 Ref. 1705/954
Include all video door phones connected in parallel to the count.

VIDEO OUTDOOR STATION REFERENCES


Sinthesi model
N. Y Calling module
N. Y Camera module
N. Y Video adapter

Ref. 1072/13
Ref. 1745/70
Ref. 1742/13A
The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "Sinthesi calling module" for respective diagrams and installation methods.
or

## K-Steel model

N. Y Calling module

Ref. 1072/14
N. Y Camera module Ref. 1755/30A

The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "K-Steel calling module" for respective diagrams and installation methods.

POWER SUPPLY AND BUS COUPLER REFERENCES
N. 1 Bus coupler
N. 1 Video VOP power unit
N. Y-1 Transformer
N. Y-1 Relay box
N. X Floor video distributor
N. X Multipolar cables for VOP system

Ref. 1072/24
Ref. 1074/20 Ref. 9000/230
Ref. 789/52
Ref. 1074/54
Ref. 1074/90

SWITCHBOARD REFERENCES (OPTIONAL)
N. 1 Concierge switchboard
N. 1 Door phone switchboard transformer


Ref. 1072/42 Ref. 9000/230


## BLOCK CHART



## DIAGRAM NOTES

(see beginning section)
CU. 003
CU. 004
CU. 006
CU. 009
CU. 010
C4.007
C4.008
VD. 002
VD. 007
VU. 002
VU. 005
VU. 006
VX. 006
VX. 008
VX. 014
$Y=$ outdoor station number
CONNECTION OF 1 VIDEO DOOR PHONE COLUMN TO N VIDEO DOOR UNITS WITH CALLING MODULE AND TO 1 DOOR PHONE SWITCHBOARD Video floor connection via 4-user decoders
SV124-0227C


CONNECTION OF UP TO 12 VIDEO DOOR PHONE COLUMNS TO 1 VIDEO DOOR UNIT WITH CALLING MODULE AND TO 1 DOOR PHONE SWITCHBOARD Video floor connection via 4-user decoders

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## SV124-0222D

VIDEO DOOR PHONE REFERENCES

Mod. Atlantico
N. 250 Video door phone
N. 250 Bracket

Mod. Artico
N. 250 Video door phone
N. 250 Bracket
$\angle 1 n$ Include all video door phones connected in parallel to the count.

VIDEO OUTDOOR STATION REFERENCES

## Sinthesi mode

N. 1 Calling module
N. 1 Camera module
N. 1 Video adapter

Ref. 1702/1 Ref. 1202/954

The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "Sinthesi calling module" for respective diagrams and installation methods.

## or

K-Steel model
N. 1 Calling module

Ref. 1072/14
N. 1 Camera module

Ref. 1755/30A
The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "K-Steel calling module" for respective diagrams and installation methods.

POWER SUPPLY AND BUS COUPLER REFERENCES
N. K Bus coupler
N. K Video VOP power unit
N. X Video distributor
N. X Floor video distributor
N. X Multipolar cables for VOP system

SWITCHBOARD REFERENCES (OPTIONAL)
N. 1 Concierge switchboard
N. 1 Door phone switchboard transformer


Ref. 1072/42 Ref. 9000/230


DIAGRAM NOTES
(see beginning section)
CU. 003
CU. 004
CU. 006
CU. 009
CU. 010
VU. 002
VU. 005
VU. 006
VD. 002
VD. 007
C4.007
C4.008
VX. 008
VX. 014
$\mathrm{K}=$ columns number

CONNECTION OF UP TO 12 VIDEO DOOR PHONE COLUMNS TO 1 VIDEO DOOR UNIT WITH CALLING MODULE AND TO 1 DOOR PHONE SWITCHBOARD Video floor connection via 4-user decoders

SV124-0222D


CONNECTION OF 4 VIDEO DOOR PHONE COLUMNS (up to 50 video door phone) TO 1 VIDEO DOOR UNIT WITH CALLING MODULE AND TO 1 DOOR

DOMUS
Video floor connection via up to 13 four-user decoders

## SV124-0306A

VIDEO DOOR PHONE REFERENCES

Mod. Atlantico
N. 50 Video door phone
N. 50 Bracket

Ref. 1702/1 Ref. 1202/954

Mod. Artico
Mod. Artico
N. $50 \quad$ Video door phone
Ref. 1705/1
N. 50 Bracket

Include all video door phones connected in parallel to the count.

VIDEO OUTDOOR STATION REFERENCES


Sinthesi model
N. 1 Calling module
N. 1 Camera module
N. 1 Video adapter

Ref. 1072/13
Ref. 1745/70 Ref. 1742/13A

The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "Sinthesi calling module" for respective diagrams and installation methods.
or
K-Steel model
N. 1 Calling module

Ref. 1072/14
N. 1 Camera module

Ref. 1755/30A
The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "K-Steel calling module" for respective diagrams and installation methods.

POWER SUPPLY AND BUS COUPLER REFERENCES
N. 1 Bus coupler
N. 1 Video VOP power unit
N. 1 Video distributor
N. 13 Floor video distributor
N. X Multipolar cables for VOP system

SWITCHBOARD REFERENCES (OPTIONAL)
N. 1 Concierge switchboard
N. 1 Door phone switchboard transformer

Ref. 1072/24 Ref. 1074/20 Ref. 1795/40 Ref. 1074/54 Ref. 1074/90


Ref. 1072/42 Ref. 9000/230

## BLOCK CHART



## DIAGRAM NOTES

(see beginning section)
CU. 004
CU. 006
VD. 002
VD. 007
VU. 002
VU. 005
VU. 006
VX. 008



CONNECTION OF 2 VIDEO DOOR PHONE COLUMNS TO 1 VIDEO DOOR UNIT WITH CALLING MODULE AND TO 1 DOOR PHONE SWITCHBOARD

Each column is also connected to a secondary video door phone with traditional
D O M U S panel - Video floor connection via 4-user decoders

SV124-0195C
VIDEO DOOR PHONE REFERENCES

Mod. Atlantico
N. 100 Video door phone
N. 100 Bracket

Mod. Artico
N. 100 Video door phone
N. 100 Bracket

Include all video door phones connected in parallel to the count.

VIDEO OUTDOOR STATION REFERENCES WITH CALLING MODULE

Sinthesi model
N. 1 Calling module
N. 1 Camera module

Ref. 1072/13
Ref. 1745/70
Ref. 1742/13A
The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "Sinthesi calling module" for respective diagrams and installation methods.
or
K-Steel model
N. 1 Calling module

Ref. 1072/14
N. 1 Camera module Ref. 1755/30A

The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "K-Steel calling module" for respective diagrams and installation methods.

N. X Push button modules
N. 2 Module with door unit
N. X 16-user expansion module
N. 2 Camera module
N. 2 Video adapter

Ref. 1145/11-/12-/13-/14 Ref. 1072/7 Ref. 1038/17 Ref. 1745/70 Ref. 1742/13A

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", Sinthesi panel section for diagrams and installation procedures.
or
K-Steel model

| N. X | Push button modules | Ref. 1155/11-/12A-/13A-/14A |
| :--- | :--- | ---: |
| N. 2 | Module with door unit and 2 buttons | Ref. 1072/5 |
| N. X | 16-user expansion module | Ref. 1038/17 |
| N. | Camera module | Ref. 1755/30A |

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", K-Steel vandalproof modular panel section for diagrams and installation procedures.

## POWER SUPPLY AND BUS COUPLER REFERENCES

N. 2 Bus coupler

Ref. 1072/24
N. 2 Video VOP power unit Ref. 1074/20
N. 1 Power supply

Ref. 789/2
N. 1 Transformer

Ref. 9000/230
N. 1 Video distributor

Ref. 1795/40
Ref. 1074/54
Ref. 1074/90

SWITCHBOARD REFERENCES (OPTIONAL)
N. 1 Concierge switchboard

Ref. 1072/42
N. 1 Door phone switchboard transformer

Ref. 9000/230

## BLOCK CHART



## DIAGRAM NOTES

(see beginning section)
C4.007
C4.008
CU. 003
CU. 004
CU. 006
CU. 009
CU. 010
VD. 002
VD. 007
VU. 002
VU. 005
VU. 006
VX. 006
VX. 008
VX. 014


CONNECTION OF N VIDEO DOOR PHONE COLUMNS TO 1 VIDEO DOOR UNIT WITH CALLING MODULE AND TO 1 DOOR PHONE SWITCHBOARD WITH VIDEO MODULE

D O M U S Each column is also connected to a secondary video door phone with traditional panel - Video floor connection via 4-user decoders

SV124-0233B
VIDEO DOOR PHONE REFERENCES
Mod. Atlantico
N. 250 Video door phone
N. 250 Bracket

Ref. 1702/1 Ref. 1202/954
or
Mod. Artico
N. 250 Video door phone

Ref. 1705/1
N. 250 Bracket Ref. 1705/954
Include all video door phones connected in parallel to the count.

VIDEO OUTDOOR STATION REFERENCES WITH CALLING MODULE

Sinthesi model
N. 1 Calling module

Ref. 1072/13
Ref. 1745/70
N. 1 Video adapter

Ref. 1742/13A
The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "Sinthesi calling module" for respective diagrams and installation methods.

## or

K-Steel model
N. 1 Calling module

Ref. 1072/14
N. 1 Camera module

Ref. 1755/30A
The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "K-Steel calling module" for respective diagrams and installation methods.

N. X Push button modules
N. K Module with door unit
N. X 16-user expansion module
N. K Camera module

Ref. 1145/11-/12-/13-/14 Ref. 1072/7 Ref. 1038/17 Ref. 1745/70 Ref. 1742/13A

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", Sinthesi panel section for diagrams and installation procedures.
or
K-Steel model

| N. X | Push button modules | Ref. 1155/11-/12A-/13A-/14A |
| :--- | :--- | ---: |
| N. K | Module with door unit and 2 buttons | Ref. 1072/5 |
| N. X | 16-user expansion module | Ref. 1038/17 |
| N. K | Camera module | Ref. 1755/30A |

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", K-Steel vandalproof modular panel section for diagrams and installation procedures.

POWER SUPPLY AND BUS COUPLER REFERENCES
N. K Bus coupler
N. K Video VOP power unit Ref. 1072/24
N. 2 Power supply Ref. 1074/20
N. 2 Transformer
N. 3 Video distributor
N. X Floor video distributor
N. X Multipolar cables for VOP system

Ref. 9000/230
Ref. 1795/40
Ref. 1074/54
Ref. 1074/90

SWITCHBOARD REFERENCES
N. 1 Concierge switchboard

Ref. 1072/42
Ref. 1732/1
N. 1 Video module

Ref. 1732/957

## BLOCK CHART



## DIAGRAM NOTES

(see beginning section)
C4.007
C4.008
CU. 003
CU.004
CU. 006
CU. 009
CU. 010
VD.002
VD.007
VU. 002
VU. 005
VU. 006
VX. 006
VX. 008
VX. 014
(see beginning section)
C4.007
C4.008
CU. 004
CU. 006
CU. 010

VD. 007
VU. 002
VU. 006
VX. 006
VX. 014

SV124-0233B


CONNECTION OF 1 VIDEO DOOR PHONE COLUMN TO 1 VIDEO DOOR UNIT AND TO 1 DOOR UNIT WITH TRADITIONAL PANEL AND TO 1 DOOR PHONE SWITCHBOARD WITH VIDEO MODULE
Video floor connection via 4-user decoders

SV124-0239D
VIDEO DOOR PHONE REFERENCES

Mod. Atlantico
N. 50 Video door phone
N. 50 Bracket

Mod. Artico
N. 50 Video door phone
N. 50 Bracket

Include all video door phones connected in parallel to the count.

OUTDOOR STATION REFERENCES


Sinthesi model
N. X Push button modules
N. 1 Module with door unit
N. X 16-user expansion module

Ref. 1145/11-/12-/13-/14 Ref. 1072/7 Ref. 1038/17

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", Sinthesi panel section for diagrams and installation procedures.
or

K-Steel model
$\begin{array}{llr}\text { N. X } & \text { Push button modules } & \text { Ref. 1155/11-/12A-/13A-/14A } \\ \text { N. } 1 & \text { Module with door unit and } 2 \text { buttons } & \text { Ref. 1072/5 }\end{array}$
N. 1 Module with door unit and 2 buttons Ref. 1072/5
N. X 16-user expansion module

Ref. 1038/17
The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", K-Steel vandalproof modular panel section for diagrams and installation procedures.

## VIDEO OUTDOOR STATION REFERENCES

Sinthesi model
N. X Push button modules
N. 1 Module with door unit
N. X 16-user expansion module
N. 1 Camera module
N. 1 Video adapter


The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", Sinthesi panel section for diagrams and installation procedures.

## or

K-Steel model

| N. X | Push button modules | Ref. 1155/11-/12A-/13A-/14A |
| :--- | :--- | ---: |
| N. 1 | Module with door unit and 2 buttons | Ref. 1072/5 |
| N. X | 16-user expansion module | Ref. 1038/17 |
| N. 1 | Camera module | Ref. 1755/30A |

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", K-Steel vandalproof modular panel section for diagrams and installation procedures.

POWER SUPPLY AND BUS COUPLER REFERENCES
N. 1 Bus coupler

Ref. 1072/24
N. 1 Video VOP power unit Ref. 1074/20
N. 1 Power supply

Ref. 789/2
Ref. 788/52
N. 1 Relay box
N. 1 Transformer
N. 1 Video distributor
N. X Floor video distributor

Ref.
Ref. 1795/40
N. X Multipolar cables for VOP system

Ref. 1074/54
Ref. 1074/90

## SWITCHBOARD REFERENCES

N. 1 Concierge switchboard

Ref. 1072/42
Ref. 1732/1
N. 1 Video module

Ref. 1732/957

## BLOCK CHART



## DIAGRAM NOTES

## (see beginning section)

C4.007
C4.008
CU. 003
CU. 004
CU. 006
CU. 009
CU. 010
VD. 002
VD. 007
VU. 002
VU. 003
VU. 005
VU. 006
VX. 006
VX. 008
VX. 014


CONNECTION OF N VIDEO DOOR PHONE COLUMNS TO 1 VIDEO DOOR UNIT WITH CALLING MODULE AND TO 1 DOOR PHONE SWITCHBOARD
urmet
Each column is also connected to 1 door unit with calling module
D O M U S Video floor connection via 4-user decoders

## SV124-0228E

VIDEO DOOR PHONE REFERENCES

Mod. Atlantico
N. 250 Video door phone
N. 250 Bracket
or
Mod. Artico
N. 250 Video door phone
N. 250 Bracket


Ref. 1702/1 Ref. 1202/954

5 Include all video door phones connected in parallel to the count.

## OUTDOOR STATION REFERENCES

Sinthesi model
N. K Calling module

Ref. 1072/13

The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "Sinthesi calling module" for respective diagrams and installation methods.
or
K-Steel model
N. K Calling module

Ref. 1072/14
The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "K-Steel calling module" for respective diagrams and installation methods.

N. 1 Calling module
N. 1 Camera module
N. 1 Video adapter

The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "Sinthesi calling module" for respective diagrams and installation methods.
or
K-Steel model
N. 1 Calling module

Ref. 1072/14
N. 1 Camera module Ref. 1755/30A

The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "K-Steel calling module" for respective diagrams and installation methods.

## POWER SUPPLY AND BUS COUPLER REFERENCES

N. K Bus coupler
N. K Video VOP power unit
N. 1 Transformer
N. X Video distributor
N. X Floor video distributor
N. X Multipolar cables for VOP system


Ref. 1072/24
Ref. 1074/20
Ref. 9000/230
Ref. 1795/40
Ref. 1074/54
Ref. 1074/90

## SWITCHBOARD REFERENCES (OPTIONAL)

N. 1 Concierge switchboard

Ref. 1072/42 Ref. 9000/230

## BLOCK CHART



## DIAGRAM NOTES

## (see beginning section)

C4.007
C4.008
CU. 003
CU. 004
CU. 006
CU. 009
CU. 010
VD. 002
VD. 007
VU. 002
VU. 005
VU. 006
VX. 006
VX. 008
$\mathrm{K}=$ columns number

SV124-0228E


CONNECTION OF N VIDEO DOOR PHONE COLUMNS TO 1 VIDEO DOOR UNIT WITH CALLING MODULE AND TO 1 DOOR PHONE SWITCHBOARD Each column is also connected to 1 door unit with traditional panel Video floor connection via 4-user decoders

SV124-0281B
VIDEO DOOR PHONE REFERENCES

Mod. Atlantico
N. 250 Video door phone
N. 250 Bracket
or
Mod. Artico
N. 250 Video door phone
N. 250 Bracket


Ref. 1702/1 Ref. 1202/954

4 Include all video door phones connected in parallel to the count.

VIDEO OUTDOOR STATION REFERENCES


Sinthesi model
$\begin{array}{ll}\text { N. } 1 & \text { Calling module } \\ \text { N. } 1 & \text { Camera module }\end{array}$
Ref. 1072/13
Ref. 1745/70
N. 1 Video adapter

Ref. 1742/13A
The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "Sinthesi calling module" for respective diagrams and installation methods.
or

## K-Steel model

N. 1 Calling module

Ref. 1072/14
N. 1 Camera module

Ref. 1755/30A
The calling module must be installed in flush-mounting boxes with module holder frames or in cases with hood for wallmounted versions. Refer to section "K-Steel calling module" for respective diagrams and installation methods.

## EXAMPLE "I"

Sinthesi model

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", Sinthesi panel section for diagrams and installation procedures.
or

## K-Steel model

| N. X | Push button modules | Ref. 1155/11-/12A-/13A-/14A |
| :--- | :--- | ---: |
| N. K | Module with door unit and 2 buttons | Ref. 1072/5 |
| N. X | 16-user expansion module | Ref. 1038/17 |

## OUTDOOR STATION REFERENCES

$\begin{array}{ll}\text { N. X } & \text { Push button modules } \\ \text { N. K } & \text { Module with door unit } \\ \text { N. X } & \text { 16-user expansion module }\end{array}$
Ref. 1145/11-/12-/13-/14 Ref. 1072/7 Ref. 1038/17


## EXAMPLE "II"

725 model
N. K Door unit ready two-row panel

Mod. 725
Ref. 1072/19
Ref. 1038/17
Refer to "Product Technical Manual - Door Phone and Video Door Phone systems", Mod. 725 panel with anodised
N. K Door unit with digitizer
N. X 16-user expansion module

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", K-Steel vandalproof modular panel section for diagrams and installation procedures.
or

Domus Aura model
N. K Door unit ready two-row panel

Mod. 1110
N. K Door unit with digitizer

Ref. 1072/19
Ref. 1038/17
Refer to "Product Technical Manual - Door Phone and Video Door Phone systems", Domus Aura panel section for panel and accessory diagrams.

POWER SUPPLY AND BUS COUPLER REFERENCES
N. K Bus coupler

Ref. 1072/24
N. K Video VOP power unit
N. 1 Transformer

Ref. 1074/20
N. X Video distributor

Ref. 9000/230
N. X Floor video distributor

Ref. 1795/40
Ref. 1074/54
N. X Multipolar cables for VOP system

Ref. 1074/90

## SWITCHBOARD REFERENCES

N. 1 Concierge switchboard

Ref. 1072/42
N. 1 Door phone switchboard transformer

Ref. 9000/230

## BLOCK CHART


CONNECTION OF N VIDEO DOOR PHONE COLUMNS TO 1 VIDEO DOOR UNIT WITH CALLING MODULE AND TO 1 DOOR PHONE SWITCHBOARD
Each column is also connected to 1 door unit with traditional panel Video floor connection via 4-user decoders


| (see beginning section) |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| C4.007 | C4.008 |  |  |  |
| CU.003 | CU.004 | CU.006 | CU. 009 | CU. 010 |
| VD.002 | VD.007 |  |  |  |
| VU.002 | VU.005 | VU.006 |  |  |
| VX.006 | VX.008 | VX.014 |  |  |

CONNECTION OF 2 VIDEO DOOR PHONES IN PARALLEL
A) WITH VIDEO CONNECTION TO FLOOR VIA ONE DISTRIBUTOR EXTENSION
urmet
B) WITH IN/OUT VIDEO CONNECTION

DOMUS

## SV124-0210C


B)

 CONNECTION OF TELEPHONE SWITCHBOARD (PABX) IN A BIBUS II Ed. DOOR PHONE SYSTEM


## ELECTRICAL OUTDOOR STATION

Traditional push button panel Mod.Sinthesi - K-Steel


Calling module
Mod.Sinthesi - K-Steel


Traditional push button panel Mod. 725

INSTALLATION DIAGRAMS

## Traditional push button panel Sinthesi model

- Push button modules

Ref. 1145/11-/12-/13-/14

- Door unit module with built-in digitiser

Ref. 1072/7

- 16-user expansion module

Ref. 1038/17

## Calling module Sinthesi model

- Calling module

Ref. 1072/13
3
The Sinthesi modules must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", Sinthesi panel section for diagrams and installation procedures.

Traditional push button panel K-Steel model

- Push button modules

Ref. 1155/11-/12A-/13A-/14A

- Module with door unit and 2 buttons

Ref. 1072/5

- 16-user expansion module

Ref. 1038/17

## Calling module K-Steel model

- Calling module

Ref. 1072/14

4
The K-Steel modules must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", K-Steel vandal-proof modular panel section for diagrams and installation procedures.

Traditional push button panel 725 model

- Two row push-button panel for door unit

Mod. 725

- Door unit with digitizer

Ref. 1072/19

- 16-user expansion module

Ref. 1038/17

L
Refer to "Product Technical Manual - Door Phone and Video Door Phone systems", Mod. 725 panel with anodised aluminium front section for panel and accessory diagrams.

DOMUS

Traditional push button panel Mod. 1128

- Casing for door unit
- Door unit
- Casing for buttons
- Button
- Door unit with digitizer
- Blank module

Ref. 1128/1-/2
Ref. 1072/19
Ref. 1128/30-/31

For accessory data sheets, refer to the Mod. 1128 wall-mounted panel section.

Traditional push button panel Exigo model

- Push-button panel for door unit

Mod. 1121 or 1143

- Door unit with digitizer

Ref. 1072/28

- 16-user expansion module

Ref. 1038/17
Refer to section "Exigo panels" for panel and accessory diagrams.

ELECTRICAL VIDEO OUTDOOR STATION

Traditional push button panel Mod.Sinthesi - K-Steel


Calling module
Mod.Sinthesi - K-Steel


## Traditional push button panel Sinthesi model

- Push button modules

Ref. 1145/11-/12-/13-/14

- Door unit module with built-in digitiser

Ref. 1072/7

- 16-user expansion module
- Camera module
black/white colour

Ref. 1745/70
Ref. 1745/40

- Video adapter

Ref. 1742/13A

Calling module Sinthesi model

- Calling module

Ref. 1072/13

- Camera module black/white colour
- Video adapter

Ref. 1745/70
Ref. 1745/40 Ref. 1742/13A

4The Sinthesi modules must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", Sinthesi panel section for diagrams and installation procedures.

Traditional push button panel K-Steel model

- Push button modules

Ref. 1155/11-/12A-/13A-/14A

- Module with door unit and 2 buttons

Ref. 1072/5

- 16-user expansion module

Ref. 1038/17

- Camera module Ref. 1755/30A


## Calling module K-Steel model

- Calling module

Ref. 1072/14

- Camera module

Ref. 1755/30A
4
The K-Steel modules must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to the "Product Technical Manual - Door Phone and Video Door Phone systems", K-Steel vandal-proof modular panel section for diagrams and installation procedures.

Traditional push button panel Mod. 725


Push button panel Exigo


Traditional push button panel 725 model

- Push button panel with $N$ buttons
- Loudspeaking unit with built-in digitalizer device
- 16-user expansion module

Mod. 725
Ref. 1072/19A Ref. 1038/17

- TV camera unit Ref. 725/600
- Front unit for camera unit
- Video adapter

Ref. 725/602

- Relay box

LY Refer to "Product Technical Manual - Door Phone and Video Door Phone systems", Mod. 725 panel with anodised aluminium front section for panel and accessory diagrams.

## Push button panel Exigo

- Push button panel with N buttons
- Loudspeaking unit with built-in digitalizer device
- 16-user expansion module

Ref. 1072/2
Ref. 1038/17

- TV camera uni Ref. 1810/70 o 1810/40
- Video adapter

Ref. 1742/13A
5\%
Refer to section "Exigo panels" for panel and accessory diagrams.

## SPARE PARTS FOR RETROFIT

## SECTION CONTENTS

MAINTENANCE AND REPLACEMENTS
.. 2
REPLACING RELAY BOX Ref. 788/5 WITH Ref. 788/52............... 3
REPLACEMENT OF THE VIDEO DISTRIBUTOR
Ref. 1074/54 WITH Ref. 1074/55 .4

## MAINTENANCE AND REPLACEMENTS

Some devices in the system may need to be replaced in time for maintenance purposes. This paragraph indicates what needs to be reprogrammed.

Door unit with digitiser Ref. 1072/19A:
Replacing door unit with digitiser Ref. 1072/18 with model Ref. 1072/19A.
Make the wiring without changing the sequence of the buttons.
In video system with power unit Ref. 1772/6, video power terminal GND must be connected to door unit terminal R1 and not to door unit terminal GND.
Program the following parameters with programming adapter Ref.1072/60 and keyboard Ref. 1032/65:

- System type: 1st Edition.
- Station number (ID): enter the value of the replaced station.
- Electrical lock energising time: enter the value of the replaced station .

The door phones DO NOT need to be programmed.
Replacing door unit with digitiser Ref. 1072/19 or 1072/19A with model Ref. 1072/19A.
Make the wiring without changing the sequence of the buttons.
Program the following parameters with programming adapter Ref. 1072/60 and keyboard Ref. 1032/65

- System type: 2nd Edition.
- Station number (ID): enter the value of the replaced station.
- Electrical lock energising time: enter the value of the replaced station
- Hang-up waiting time and busy time: enter the value of the replaced station
- Code type: enter the value of the replaced station
- User codes: enter the value of the replaced station.

The door phones DO NOT need to be programmed.

DOOR UNIT WITH DIGITISER Ref. 1072/19A REPLACING MODEL Ref. 1072/18 IN 1ST EDITION BIBUS SYSTEMS.

N.B.: The buttons associated to the expansion modules will not send the call if the wire is not inserted correctly.

16-USER EXPANSION MODULE Ref. 1038/17:
No programming required.

16-USER EXPANSION MODULE Ref. 1038/17 REPLACING MODEL Ref. 1072/16 1ST EDITION BIBUS SYSTEMS

N.B.: the buttons associated to the expansion modules will not send the call if the wire is not inserted correctly.

50-USER BUS COUPLER Ref. 1072/24:
No programming required.

DOOR PHONE Ref. 1172/31-/32-/33 OR PABX ADAPTER Ref. 1072/67:

1st Edition system replacement procedure.
Replace devices and reprogram from all calling stations
2nd Edition system replacement procedure.
Replace devices and reprogram from any calling station.
SPECIAL DECODER Ref. 1072/80:
Reprogram the decoder.

## SWITCHBOARD Ref. 1072/41:

Replacing switchboard Ref. 1072/40 with model Ref. 1072/41.
Entirely reprogram the switchboard.
Replacing switchboard Ref. 1072/41 with the same model
Replace the faulty device in the system. Remove component U9 from the old device and fit it in the new device to avoid reprogramming. Make sure the direction is correct.


CALLING MODULE WITH REPERTORY Ref. 1072/12:
Replacing switchboard Ref. 1072/15 with model Ref. 1072/12 Entirely reprogram the calling module.
N.B.: terminal R1 must be connected instead of terminal GND when replacing the device in 1st Edition video systems.

Replacing switchboard Ref. 1072/12 with the same model.
Replace the faulty device in the system. Remove component U8 from the old device and fit it in the new device to avoid reprogramming. Make sure the direction is correct.


REPLACING RELAY BOX Ref. 788/5 WITH Ref. 788/52

The Ref. 788/52 relay box can replace the obsolete 788/5 model. The terminals correspond as follows:

| RELAY | Ref. 788/5 | Ref. 788/52 |
| :---: | :---: | :---: |
|  | 14 | 14 |
|  | 15 | 15 |
|  | 1 | S 1 |
|  | 2 | S 2 |
|  | 3 | S 3 |
|  | 4 | S 4 |
|  | 5 | S 5 |
|  | 6 | S 6 |

REPLACEMENT OF THE VIDEO DISTRIBUTOR Ref. 1074/54 WITH Ref. 1074/55


If the 1074/55 device is used instead of the 1074/54, connect the cables of the video signal to the 1074/55 device as connected on the 1074/54. The audio signal cables can be connected to the L1 L2 dedicated connectors as indicated above or leaving the electrical connection set up when using the 1074/54.

# CERTIFICATO N. CERTIFICATE N. 9110.URMD 

SI CERTIFICA CHE IL SISTEMA QUALITA' DI
WE HEREBY CERTIFY THAT THE QUALITY SYSTEM OPERATED BY
URMET DOMUS SPA
VIA BOLOGNA,188/C - 10154 TORINO (TO)
UNITA' OPERATIVE
OPERATIVE UNITS
VIA BOLOGNA, 188/C - 10154 TORINO (TO)

E' CONFORME ALLA NORMA IS IN COMPLIANCE WITH THE STANDARD

ISO 9001:2000

PER LE SEGUENTI ATTIVITA'
FOR THE FOLLOWING ACTIVITIES
EA: 19
Progettazione, sviluppo e produzione di sistemi di citofonia, videocitofonia, sicurezza e telefonia
Design, development and production of door entryphone systems, video door entryphone systems, security systems and telephone systems
Riferirsi al manuale della qualità per l'applicabilità dei requisiti della norma ISO 9001:2000 Refer to quality manual for details of applications to ISO 9001:2000 requirements

IL PRESENTE CERTIFICATO E' SOGGETTO AL RISPETTO DEL REGOLAMENTO PER LA CERTIFICAZIONE DEI SISTEMI QUALITA' E DI GESTIONE DELLE AZIENDE
THE USE AND THE VALIDITY OF THE CERTIFICATE SHALL SATISFY THE REQUIREMENTS OF THE RULES FOR THE CERTIFICATION OF COMPANY QUALITY AND MANAGEMENT SYSTEMS

PRIMA EMISSIONE EMISSIONE CORRENTE
FIRSTISSUE CURRENTISSUE
30 novembre $1995 \quad 17$ marzo 2003


IMQ S.p.A. - VIA QUINTILIANO, 43-20138 MILANO

DoWMIOA,

Today, you can observe, retrieve information, choose and add all Urmet Domus products to your system estimate with a few simply clicks of a mouse on your computer without having to browse, read and understand catalogues and manuals.
This and more thanks to our "Domus Draw" program which has now become an indispensable working tool for professionals (installers, wholesalers, retrofitters, architects, etc.).

Domus Draw implements a few, simple commands for:

- Creating and saving all system estimates either automatically and/or manually.
- Printing estimates to paper or pdf file.
- Creating system estimates using different user modes.
- Retrieving information about systems and applications by consulting instruction booklets and technical documents of the various products or consulting the wiring diagrams of the system to be created.
- Watching demo footage with sound for easily understanding how to use the program.
- Connecting to the Urmet Domus web site to find out about new features and get real-time updates.
- Searching for cost-effective, ready-to-use kits which can be adapted to your system needs.
- Saving and printing all your customer data in a specific database.
- Browsing a comprehensive photograph and description database presenting all Urmet Domus products in detail.

Accessing these functions is very easy: just press the corresponding function button on the program home page:

"Domus Draw" can be downloaded free of charge from www.urmetdomus.com



[^0]:    Some products may be described in the "New" section.

[^1]:    * 

    Some products may be described in the "New" section.

[^2]:    0
    The following method can be used to program the door phones without accessing each apartment if no door phones have been programmed and if the system is set up for floor call function:

[^3]:    LI If a call is made from the door unit during a conversation between user and switchboard, at the end of the minimum conversation time the line will be freed and the switchboard may communicate with the door unit. If instead, during a conversation between the door unit and the switchboard a user makes a call, this event will be stored by the switchboard. The switchboard operator will call the user back.

[^4]:    Some products may be described in the "New" section.

[^5]:    4 The diagrams shown in this table ay apply to all panel models: refer to "Replacing elements in diagrams".

[^6]:    

