RFID key/card reader module with key pad touch code lock ref. no. 5025/ZK-RF

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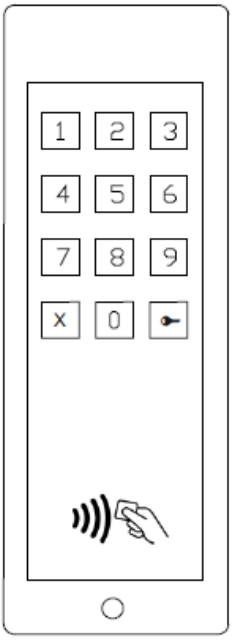
RFID KEY/CARD READER WITH KEY PAD TOUCH CODE LOCK REF. NO. 5025/ZK-RF



GENERAL INFORMATIONS

Module ref. 5025 / ZK-RF is a device access control system designed for independently works (stand-alone mode). It has a code lock function. Opening codes can be 4 to 8 digits. It supports key-rings and standard RFID cards UNIQUE 125 kHz, eg. Ref. no. 1052 / KZ. Front RFID/CODE LOCK module is made of stainless steel and plexiglass. Backlight color is red. When you open the door red off, and the backlighting changes to green. The module can adjust the brightness of the backlight. The module has configurable audible signal (buzzer). The signaling can be turned off entirely, or set to one of three levels of volume.
Module can connect an external button that will cause the behavior of the module in such a way as during application of the programmed key - so-called "opening button".
You can configure the module settings, add, delete and edit keys through software on the PC.
The security module is a patent screw fastening the front panel. For assembly of the needed housing ref. no. 5025 / OPD1..4 depending on the configuration of the module / panel.

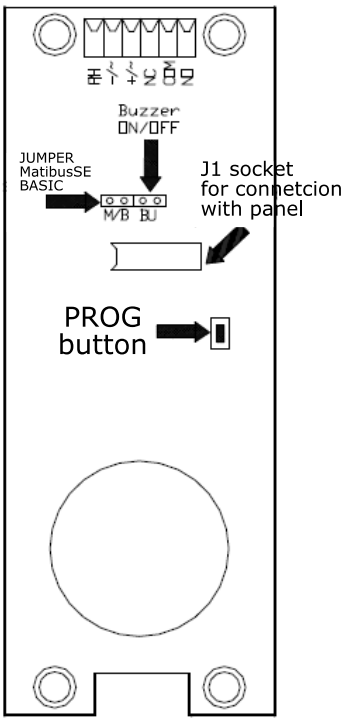
DESCRIPTION OF TERMINAL BOARD

+ / ~ AC / DC (polarity independent).
- / ~ AC / DC (polarity independent).
NC relay contact normally closed.
COM Relay common.
NO Relay normally open.
PH terminal opening button (the postman button).

TECHNICAL DATA

Working temperature:	-20°C ÷ +45°C
Supply:	8 ÷ 30 V DC 6 ÷ 21 V AC
Power:	1.2 W
Weight:	0.14 kg

CONSTRUCTION



PROGRAMING IN STAND-ALONE MODE USING „PROG" BUTTON

This module is used for eg. in analog systems. The keys are stored in the internal memory of the device. After applying the previously stored key/card module change the highlight color from red to green and the relay is "on" for the time specified by the user. In the module can be program maximum 2000 keys and 2000 codes.

To enter the menu system select one of three ways:
• hold PROG button for at least 1 second.
• enter the password setup. Installer password must be confirmed prefix 00 and completed by pressing ✔. A string of characters typed on the keyboard as follows: 00xxxxxxx✔.
(NOTE - there is no default installer password. Password installer must be set at 6-step menu Programming)
• applying to the RFID reader pre-programmed (in the 6-step of the menu system) "MASTER" key.

Then the green LED next to the button PROG starts flashing and steady light every few seconds. LED will flash together with the LED module of the information contained in the front. The blinking green LED signals a definite step in the menu system.
Changing step programming menu:
• short (less than 1 second) pressing PROG
• double, quick pressing ✔
• "MASTER" key application.
In module ref. no. 5025 / ZK-RF are seven steps of programming.
To exit the menu system is possible at any time:
• hold PROG for at least 3 seconds.
• Double-press the **X** key on the keyboard,
• Apply the MASTER key after the seventh programming steps.
Automatic exit from the menu system will take place after 60 sec. if there has been no response from the user.
With PC application, you can enable / disable the option to enter the Programming Menu PROG button.

ADDING A NEW KEY / PASSCODE

The LED flashes cyclically **1 time**.

ADDING KEY/CARD:
After affixing the key to the reader follows his reading (signaled by illumination of green LEDs and red LEDs light turns off), and then save it to a memory. In the case of an erroneous entry key will be blinking red LEDs. Flashing red LEDs may be one of three states:

- key is already stored in memory,
- there was an error reading key
- reader's memory is full.

ADDING OPENING CODE:
To add a new "code of opening" the code must be entered in length from 4 to 8 characters, and then confirmed by pressing ✔. The correct memorization by the reader passcode is confirmed by lighting up of green LED
.

REMOVAL SINGLE KEY / PASSCODE

The LED flashes cyclically **2 times**.

REMOVAL SINGLE KEY/CARD:
In this mode, affixing its stored key to the reader will light up green LEDs while extinguishing the red LEDs and remove it from the memory. Flashes red LED indicates that the key was not found written in the memory, or there is an incorrect reading.

REMOVAL SINGLE PASSCODE:

Enter the existing passcode and press the ✔ button. Module will illuminates green LEDs while extinguishing the red LEDs and remove it from the memory. Flashes red LED indicates that the code was not found written in the memory, or there is an incorrect reading from key pad.

REMOVAL ALL KEYS / PASSCODES

The LED flashes cyclically **3 times**.

REMOVAL ALL KEYS/CARDS:
In this mode, followed by the removal of all keys stored in the reader's memory. Quadruple application to the reader any key (stored by the reader or not) will be deleted with the memory of all stored keys.

REMOVAL ALL PASSCODES:
Entering any passcode (memorized or not) four times and confirmed pressing the button ✔ will delete from the memory of module all stored passcodes. Confirmation of this process is illuminate for a moment the green LEDs.
In this programming step only stored passcodes will be remove. Keys/Cards will not be removed.

ADJUSTING BRITHNESS OF THE BACKLIGHT

The LED flashes cyclically **4 times**.

ADJUSTING USING KEY/CARDS:
In this step, applying to the reader any key will increase the brightness of the backlight for 5 levels of brightness. Increasing the brightness occurs at intervals of 0.5 seconds. Once the maximum brightness level drops to its minimum value, and the whole cycle repeats itself.

ADJUSTING USING KEY PAD TOUCH :
To change the brightness of the backlight reader, press any digit from 0 to 5, and confirm by pressing ✔. 0 means turning off the backlight, 5 maximum brightness.

ADJUSTING THE TIME OF SWITCHING RELAY

The LED flashes cyclically **5 times**.

ADJUSTING USING KEY/CARDS:
The default time of the relay is 1 sec. Each application key to the reader extends the time that the relay by 1 sec. Touchdown key is signaled by momentary lighting up of green LEDs. The maximum duration of the relay is 20 seconds.

ADJUSTING USING KEY PAD TOUCH :
To change the opening time of the relay press any number from 1 to 20 and confirm by pressing ✔. The number that represents time in seconds.

ADDING „MASTER" KEY / INSTALLER PASSWORD

The LED flashes cyclically **6 times**.

ADDING "MASTER" KEY:
In this step, you can add the so-called "MASTER" key. Applying the key to the reader will save the key as the MASTER key. Only one key can be the key to MASTER. This key can be configured module ref. 5025 / ZK-RF without unscrewing it and pressing the button PROG. More action MASTER key is in the "PROGRAMMING IN STAND-ALONE MODE USING "MASTER" KEY".

ADDING INSTALLER PASSWORD:

Entering the eight-installer password and confirming it with key ✔ will save the new password.

BUZZER VOLUME

The LED blinks cyclically **7 times**.

CHANGING VOLUME USING KEY/CARDS:
In this step, you can change the volume of the buzzer. Applying the key to the reader will change the volume of the buzzer. Last played the buzzer volume is stored. To turn off the buzzer, remove the jumper BU.

CHANGING VOLUME USING KEY PAD TOUCH:
To change the volume of the buzzer, press any digit from 0 to 3 and confirm by pressing ✔. 0 means off the buzzer, 3 maximum volume. You can also turn off the buzzer completely removing the jumper BU.

PROGRAMMING IN STAND-ALONE MODE USING "MASTER" KEY

Application to module ref. 5025 / ZK-RF MASTER key will enter the programming mode. While working in programming mode any another application of MASTER key will change the programming step. After going through the whole cycle of programming menu (7 steps) will exit the programming menu. Active step programming menu flashing LEDs indicate information module. Only in the fourth step of the programming mode - "Adjusting brightness of the backlight" LEDs do not blink.

Warning:
Changing the settings for each step programming menu, make different key than the MASTER key.
MASTER key will not turn on the relay as normal key. Record Setting the backlight brightness, buzzer volume and time of the relay takes place only after exiting the programming mode. Adding and deleting keys takes place while application to the module..

OPENING BUTTON PH

Module ref. 5025 / ZK-RF can connect an external opening button. It should be connected into terminals "PH" and "- / ~". Button will

turn on the relay the same as application programmed key to the reader.

JUMPER M/B

During operation in Matibus SE system, the jumper M/B on module ref. no. 5025 / ZK-RF must be installed..
During operation in BASIC system, the jumper M/B on module ref. no. 5025 / ZK-RF must be not installed.

In stand-alone mode jumper status does not matter.

JUMPER BU

The jumper is used to enable / disable the buzzer. Founded jumper activates the buzzer. Removed the jumper off the buzzer.

POWER

In stand-alone mode module must be supplied with DC voltage range 8VDC ÷ 30V DC or alternating voltage with a range of 6VAC ÷ 21VAC.

MIWI-URMET Co. Ltd.
Pojezierska 90A
90-341 Lodz, Poland
Tel.: 004842 616 21 00
fax: 004842 616 21 13

e-mail: miwi@miwiurmet.pl
http://www.miwiurmet.pl

The symbol of the crossed out wheeled bin indicates that the product (electrical and electronic equipment) should not be placed in municipal waste.
Please check local regulations for disposal of electronic products.