Roger Access Control System

MCT82-FK / MCT82-FK-HR-F Installation Manual

Firmware version: 1.1.25.244 and newer

Document version: Rev.B

CE

This document contains minimum information that is necessary for initial setup and installation of the device. The detailed description of configuration parameters and functionalities is specified in respective Operating Manual available at www.roger.pl.

INTRODUCTION

The panel is designed for operation with MC16 access controller (RACS 5 system). Factory new panel is configured with default settings including ID=100 address.

DEVICE CONFIGURATION

The panel can be configured in regard of various parameters (including address) in order to adapt it to the requirements of specific installation. Device can be configured from VISO v2 management software or RogerVDM utility software.

Note: Remote configuration of device from VISO v2 software is possible only if jumper is placed on MEM contacts (fig. 3). If the jumper is removed then such configuration is blocked. In case of factory new device, jumper is placed on MEM contacts.

CONFIGURATION WITH VISO V2 PROGRAM

In RACS 5 v2 system the panel can be installed at site without previous configuration. According to AN006 application note, its address and other settings can be configured from VISO v2 management software and during such configuration the access to its service contacts (fig. 3) is not required.
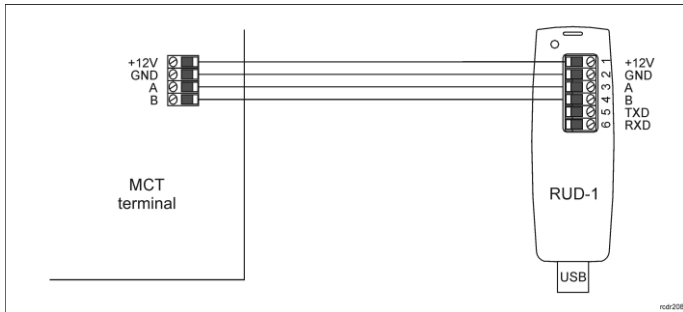
CONFIGURATION WITH ROGERVDM PROGRAM

Fig. 1 Connection of panel to RUD-1 interface (configuration)

Programming procedure:

1. Connect the device to RUD-1 interface (fig. 1) and connect the RUD-1 to computer's USB port.
2. Remove jumper from MEM contacts (fig. 3) if it is placed there.
3. Restart the device (switch power supply off and on or short RST contacts for a moment). Then within 5 seconds place jumper on MEM contacts.
4. Start RogerVDM program, select *MCT* device, firmware version, *RS485* communication channel and serial port with RUD-1 interface.
5. Click *Connect,* the program will establish connection and will automatically display *Configuration* tab.
6. Enter unoccupied RS485 address in range of 100-115 and other settings according to requirements of specific installation.
7. Click *Send to Device* to update the configuration of device.
8. Optionally make a backup by clicking *Send to File…* and saving settings to file on disk.
9. Disconnect from RUD-1 interface and leave jumper on MEM contacts to enable further configuration of device from VISO v2 software or remove jumper from MEM contacts to block such remote configuration.

FIRMWARE UPDATE

The firmware of device can be changed to newer or older version. The update requires connection to computer with RUD-1 interface (fig. 2) and starting RogerVDM software. The latest firmware file is available at www.roger.pl.

Firmware update procedure:

1. Connect the device to RUD-1 interface (fig. 2) and connect the RUD-1 to computer's USB port.
2. Place jumper on FDM contacts (fig. 3).
3. Restart the device (switch power supply off and on or short RST contacts for a moment).
4. Start RogerVDM program and in the top menu select *Tools* and then *Update firmware.*

5. In the opened window select device type, serial port with RUD-1 interface and path to firmware file (*.hex).
6. Click *Update* to start firmware upload with progress bar in the bottom.
7. When the update is finished, remove FDM jumper and restart the device.
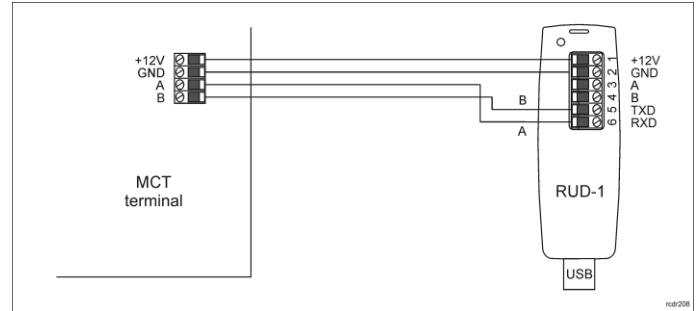

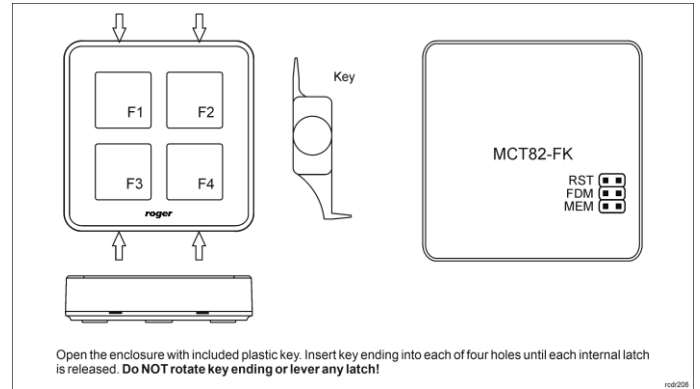Fig. 2 Connection of panel to RUD-1 interface (firmware update)

APPENDIX

Open the enclosure with included plastic key. Insert key ending into each of four holes until each internal latch is released. **Do NOT rotate key ending or lever any latch!**

Fig. 3 MCT82-FK enclosure opening and location of service contacts

Mount the plastic base of the panel on the wall with included anchor bolts. The device can be mounted on standard 60mm flush wall box.

Install the metal base inside a wall and attach with included anchor bolts. Connection cable must be led through the hole in the base and connected to panel's screw terminals. Insert the device cautiously into metal base and press to engage magnetic holders.

Fig. 4 Wall mounting for surface and flush versions

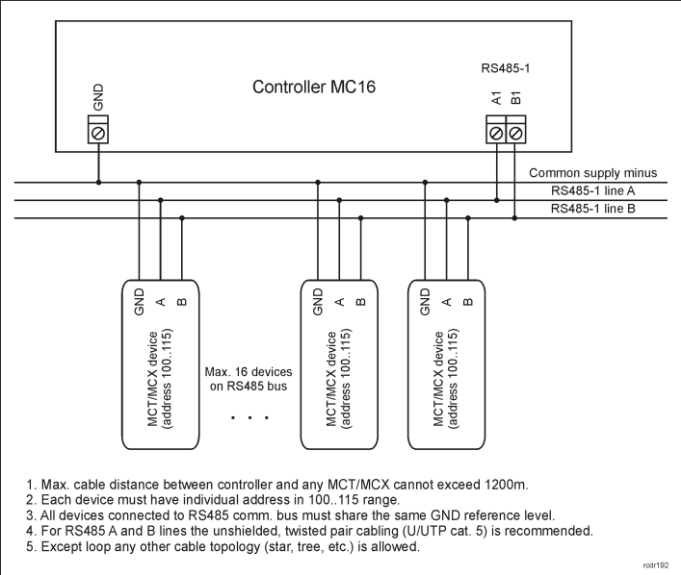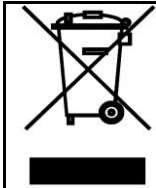| Table 1. Screw terminals	
Screw terminal	Description
12V	Supply plus
GND	Ground
A	RS485 bus, line A
B	RS485 bus, line B

Fig. 5 Connection of peripheral devices to MC16 access controller

Table 2. Specification	
Supply voltage	Nominal 12VDC, min./max. range 10-15VDC
Current consumption (average)	~60 mA
Tamper protection	Enclosure opening reported to access controller
Distance	1200m maximal cable length for RS485 bus between controller and panel
IP Code	IP30
Environmental class (according to EN 50133-1)	Class II, indoor general conditions, temperature: -10°C to +50°C, relative humidity: 10 to 95% (no condensation)
Dimensions H x W x D	MCT82-FK: 85 x 85 x 22 mm MCT82-FK-HR-F: 105 x 105 x 31 mm
Weight	~100g
Certificates	CE

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