

Roger Access Control System

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

Firmware version: 1.1.25.244 and newer

Document version: Rev.C



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

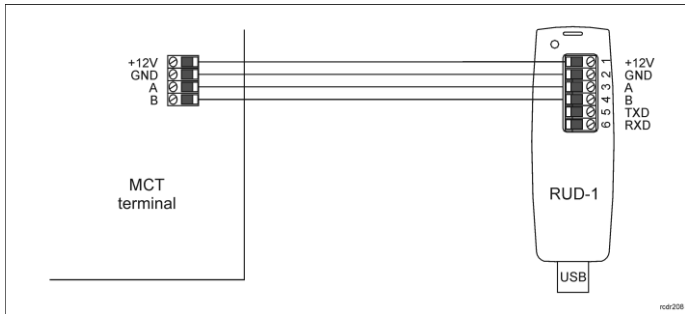


Fig. 1 Connection of panel to RUD-1 interface (configuration)

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.

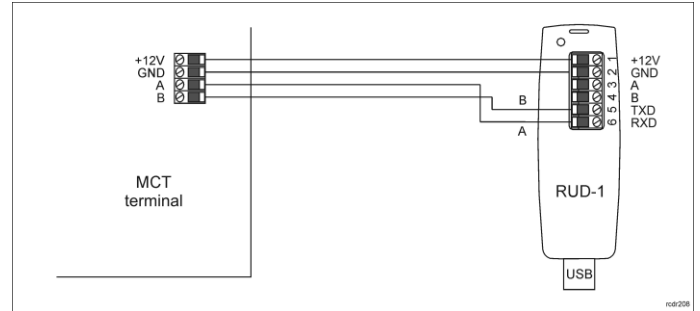


Fig. 2 Connection of panel to RUD-1 interface (firmware update)

APPENDIX

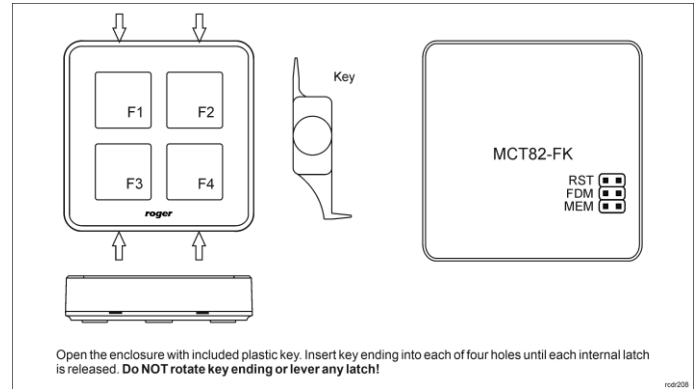


Fig. 3 MCT82-FK enclosure opening and location of service contacts

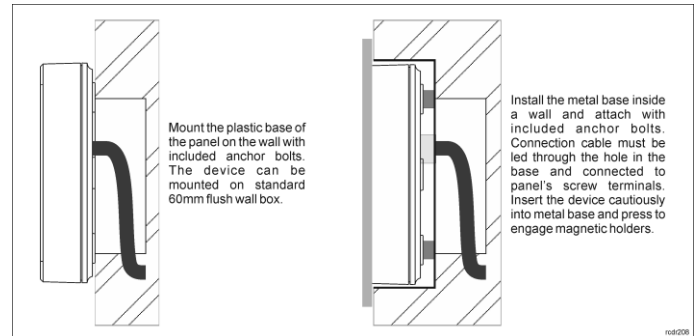


Fig. 4 Wall mounting for surface and flush versions

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

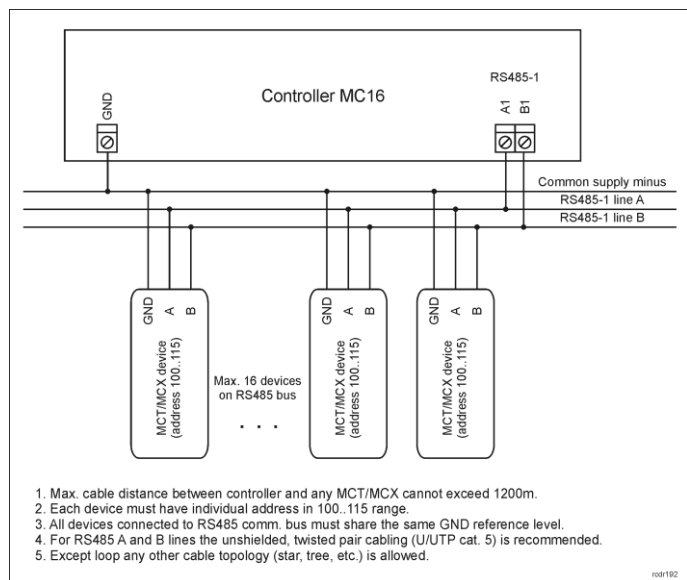
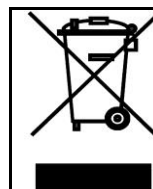


Fig. 5 Connection of peripheral devices to MC16 access controller

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

INSTALLATION GUIDELINES

- The terminal should be mounted on a vertical structure (wall) away from sources of heat and moisture.
- In particular, it is not allowed to install the reader in places with high humidity such as saunas, swimming pools, car washes, etc.
- Front panel should be attached in such way as the tamper detector would firmly press the back panel.
- All electrical connections should be done with disconnected power supply.
- If the terminal and controller are not supplied from the same PSU, then GND terminals of both devices must be connected with any wire.
- Device can be cleaned by means of wet cloth and mild detergent without abrasive components. In particular do not clean with alcohols, solvents, petrol, disinfectants, acids, rust removers, etc. Damages resulting from improper maintenance and usage are not covered by manufacturer warranty.



This symbol placed on a product or packaging indicates that the product should not be disposed of with other wastes as this may have a negative impact on the environment and health. The user is obliged to deliver equipment to the designated collection points of electric and electronic waste. For detailed information on recycling, contact your local authorities, waste disposal company or point of purchase. Separate collection and recycling of this type of waste contributes to the protection of the natural resources and is safe to health and the environment. Weight of the equipment is specified in the document.

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