



## General Description

The MCT82M series readers are indoor RFID access terminals dedicated for RACS 5 access control system. Readers need to be connected to a host device, which usually is an access controller, and can't operate autonomously. The MCT82M terminal can read either factory programmed card serial number (CSN) or any user card number (PCN) programmed in encrypted data blocks or files on a card. Because the CSN card numbers are not encrypted and can be duplicated the PCN numbers should be used for access control systems in general. The MCT82M series readers with option IO offer the set of inputs and outputs which, in most cases, should be capable to operate single door passage without necessity to use inputs or outputs located on access controller or expansion unit. There are three inputs available on the reader which can be individually configured for various pulse times and contact topologies. Optionally, inputs can be configured for Double Wiring function which allows operation with two NO/NC contacts connected to

a single input and, doubles the total number of input signals monitored by the reader. Reader offers two open collector transistor outputs and one relay type output with single isolated NO/NC contact. All outputs can be configured for Normal Polarity (output normally OFF) or Reverse Polarity (output normally ON). Communication with controller is achieved through RS485 bus which can utilize free topology (e.g. three, star and combination of them) and any type of signal cables. The maximal distance between controller and reader is limited to 1200m of cable run. Configuration of the reader as well as firmware upgrade is made through RS485 and require RogerVDM (Windows) program. The front panel of the reader is made from the special plastic with offers scratch resistance comparable with glass however, unlike it, unbreakable. The neutral shape of enclosure, similar to typical European style light switch, matches various style of interiors including traditional, modern or even historical ones.

**Features:**

- 13.56 MHz ISO14443A, reads factory programmed card number (CSN):
  - MIFARE® ULTRALIGHT
  - MIFARE® Classic 1k and 4k
  - MIFARE® Plus
  - MIFARE® DESFire EV1
- Reads user programmed card number (PCN):
  - MIFARE® Classic 1k and 4k
- Up to 7 cm reading range
- Support for normal and long card reading method
- RS485 communication interface
- Three LEDs
- Three parametric type input lines <sup>(1)</sup>
- Configurable input pulse range (50...5000ms) <sup>(1)</sup>
- Double Wiring input option <sup>(1)</sup>
- Relay output NO/NC 1.5A/30V <sup>(1)</sup>
- Two transistor outputs 150mA/15V <sup>(1)</sup>
- Normal or Reverse output polarity <sup>(1)</sup>
- Buzzer with loudness level adjustment
- Sensor type keypad with regulated backlight level<sup>(2)</sup>
- Tamper contact with detection of enclosure detachment and opening
- 12VDC power supply
- Configuration and firmware upgrade through RS485 (RogerVDM)
- Indoor environment
- White and black color versions
- Dimensions (H x W x D): 85 X 85 X 22 mm
- CE mark

<sup>(1)</sup> refers to MCT82M-IO and MCT82M-IOBK

<sup>(2)</sup> doesn't refer to product version without keypad

Order guide	
Item	Description
<b>MCT82M-B</b>	Version with touch type keypad, black panel, dark grey enclosure
<b>MCT82M-W</b>	Version with touch type keypad, white panel and enclosure, offered as product in special version
<b>MCT82M-BK-B</b>	Version without keypad, black panel, dark grey enclosure
<b>MCT82M-BK-W</b>	Version without keypad, white panel and enclosure, offered as product in special version
<b>MCT82M-IO-B</b>	Version with touch type keypad and on-board IO lines, black panel, dark grey enclosure
<b>MCT82M-IO-W</b>	Version with touch type keypad and on-board IO lines, white panel and enclosure, offered as product in special version
<b>MCT82M-IOBK-B</b>	Version with without keypad, on-board IO lines, black panel, dark grey enclosure
<b>MCT82M-IOBK-W</b>	Version with without keypad, on-board IO lines, white panel and enclosure, offered as product in special version

**Legal Notice**

This document is not intended to be a technical specification of the product and has informative character only. The Manufactures of product reserves right to change its characteristic without notice. The product features listed in this document refer to the entire series and depends on particular product version, configuration and additional equipment.

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