



The MC16 is a multi-door physical access and building automation controller dedicated for RACS 5 system (Roger). Depending on the version, it allows to control up to 16 two-way doors and 32 automation nodes (states). MC16 can be integrated with intruder alarm system by means of IO lines. The integration concept allows to display alarm zone status on reader LEDs, and to change zone status straight on the access terminals. The MC16 can be used as data collector device for time and attendance reporting systems. It can register different types of T&A events which are intended to mark various types of user attendance or absence in the supervised area. Each operation on the controller can require user authorization. The authorization process might consist of permission for access point on which user is being logged and permission for action being requested. User authorization can require one or more authentication factor to be used. Every access user might have one or more access credential (card, PIN, fingerprint etc.). Generally, controller was designed for operation with MCT (RS485) series

readers nevertheless it can work with Wiegand and RACS CLK/DTA readers as well. The RS485 communication bus allows free cable topology (e.g. three, star and combination of them) and accepts any type of signal cables. The maximal distance between controller and any MCT reader or extension is limited to 1200m of cable run. Wiegand and RACS CLK/DTA readers can be connected directly to MC16 board or by means of dedicated RS485 extension boards (e.g. MCX402DR). Controller is equipped with Ethernet interface which is used for system configuration and management. System is managed by VISO client-server Windows application operating with Microsoft SQL Server or Microsoft SQL Server Compact database. Communication between PC and controller is fully encrypted using AES-128-CBC method and can be conducted either in LAN or WAN computer networks. System configuration takes less than one minute and doesn't depend on number of controllers which is theoretically unlimited.

**Features:**

- 8192 Access Credentials
- 8 Authentication Factors per Access Credential
- 32 Authorisations per Access Credential
- 16 Access Doors
- 32 Access Points
- 64 Access Terminals
- 16 Access Zones
- 16 Alarm Zones
- 32 Automation Nodes
- 16 Automation Node Groups
- 512 Authorisations
- 64 Rules within single Authorisation
- 64 T&A Modes
- 64 Authentication Policies
- 8 rules within single Authentication Policy
- 4 steps within single Authentication Policy
- 8 on-board parametric inputs
- configurable input pulse time
- NO, NC, EOL, 2EOL and 3EOL input topologies
- double Wiring input option
- 8 on-board transistor outputs 150 mA/15 VDC
- 2 on-board relay outputs NO/NC 1.5 A/30 V
- Normal or Reverse output polarity
- 64 multifunction inputs (2)
- 64 multifunction outputs (2)
- 64 multifunction function (2)
- 32 multifunction commands
- timed Pass-back
- 32 Calendars
- 99 Periods within single Calendar
- 250 Schedules
- 40 Periods within single Schedule
- 16 Exceptions within single Schedule
- 8 million event buffer
- DC or AC supply
- reserve battery charging and monitoring
- two RS485 serial interfaces
- RACS CLK/DTA interface (four PRT series readers max.)
- Wiegand reader interface (four Wiegand type readers max.)
- on-board Ethernet interface
- AES-128-CBC encrypted communication protocol
- indoor environment
- dimensions: 72.0 x 175.0 x 30.0 mm (height x width x thickness)
- CE mark

(1) Features presented for MC16-16 version. For limitation of other MC16 versions see MC16 Version Limits table.

(2) Total number including on-board and extension modules

Order guide	
Item	Description
<b>MC16-RAW</b>	Access controller board; no door license included
<b>MC16-PAC-1</b>	Access controller board; 1-door license
<b>MC16-PAC-2</b>	Access controller board; 2-door license
<b>MC16-PAC-3</b>	Access controller board; 3-door license
<b>MC16-PAC-4</b>	Access controller board; 4-door license
<b>MC16-PAC-N</b>	Access controller board; N-door license (N=1-16)
<b>MC16-PAC-LIC-1</b>	1-door license extension for MC16 access controller

**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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