Roger Access Control System MC16-PAC-1-KIT Installation Manual

Firmware version: n/a

Document version: Rev A

CE

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

INTRODUCTION

MC16-PAC-1-KIT is designed to control single door in RACS 5 system. The door can be read-in or read-in/out type when equipped with MCT series readers (RS485), PRT series readers (RACS CLK/DTA) or Wiegand interface readers. The kit includes MC16-PAC-1 access controller and ME14-40VA metal box with 18VAC/40VA transformer. The box is adapted to installation of 7Ah battery for emergency supply. All elements of controlled door including readers and door lock can be supplied from the kit.

CONFIGURATION WITH ROGERVDM PROGRAM

Low level configuration with RogerVDM software mainly concerns MC16 PRT series readers according to their installation manuals.

MC16 programming procedure with RogerVDM software:

- Connect the controller to Ethernet network and define the IP address of your computer in the same subnetwork as the controller with 192.168.0.213 default IP address.
- 2 Start RogerVDM program, select MC16 v1.x device, the latest firmware version and Ethernet communication channel.
- Select from the list or enter manually the IP address of controller, enter 1234 3. communication key and start the connection with the controller. 4.
- In the top menu select Tools and then Set communication key to define your own password for the controller.
- 5 In the main window specify your own IP address of the controller.
- Enable PRT or Wiegand readers if the controller is supposed to operate with 6. them
- Optionally enter comments for controller and its object to facilitate their identification during further configuration of the system. 7.
- 8. Optionally backup settings clicking Send to File ... Click Send to Device to update the configuration of controller and disconnect by selection of Device in the top menu and then Disconnect.

MEMORY RESET

Memory reset procedure resets all settings to default ones and results in 192.168.0.213 IP address and empty communication key.

MC16 memory reset procedure:

- Disconnect power supply 1.
- Short CLK and IN4 lines 2
- Restore power supply, all LEDs will flash and wait min. 6s. 3
- Remove connection between CLK and IN4 lines, LEDs will stop pulsating and 4 LED2 will be on.
- 5. Wait approx. 1.5 min till LED5+LED6+LED7+LED8 are pulsating.
- Restart the controller (switch power supply off and on) 6.
- Start RogerVDM and make low level configuration. 7.

FIRMWARE UPDATE

New firmware can be uploaded to the controller with RogerVDM software. The latest firmware file is available at www.roger.pl.

MC16 firmware update procedure:

- Connect with the controller using RogerVDM software.
- Backup settings by clicking Send to File .. 2.
- 3. In the top menu select Tools and then Update firmware.
- Select firmware file and then click Update. 4.
- After firmware update wait till LED8 is pulsating. 5. Make or restore low level configuration in RogerVDM software. 6

Note: During the firmware update process, it is necessary to ensure continuous and stable power supply for the device. If interrupted, the device may require

POWER SUPPLY

repair by Roger.

The kit is supplied from 18VAC/40VA transformer. The metal box offers space for installation of typical 7Ah backup battery which is connected to BAT+ and BATterminals of MC16 controller.



Fig. 1 MC16-PAC-1-KIT



TAMPER DETECTOR

The metal box is equipped with door contact which can be connected to one of the inputs (e.g. IN8) and GND terminal of the controller. The anti-sabotage function can be assigned to the input within high level configuration of the system.

APPENDIX

Table 1. MC16 screw terminals		
Name	Description	
BAT+, BAT-	Backup battery	
AC, AC	18VAC input power supply	
AUX-, AUX+	12VDC/1.0 output power supply (for door lock)	
TML-, TML+	12VDC/0.2A output power supply (for readers)	
IN1-IN8	Input lines	
GND	Ground	
OUT1-OUT6	15VDC/150mA transistor output lines	
A1,B1	RS485 bus	
CLK, DTA	RACS CLK/DTA bus	
A2,B2	Not used	
NO1, COM1, NC1	30V/1.5A DC/AC (REL1) relay	
NO2, COM2, NC2	30V/1.5A DC/AC (REL2) relay	

Table 2. MC16 LED indicators		
Name	Description	
LED1	Normal mode	
LED2	Service mode	
LED3	Pulsating: Low level configuration error	
	ON: High level configuration error	
LED4	No memory card or memory card error	
LED5	Event log error	
LED6	License error	
LED7	Not used	
LED8	Pulsating: Proper functioning of the controller	

Table 3. Specification		
Supply voltage	230VAC, 50/60Hz (-15%÷+10%)	
Transformer	TRP40 18VAC/40VA	
Short circuit and overload	Transformer fuse	
protection		
Metal box	DC01 0.7mm metal sheet, white colour (RAL9003)	
Tamper protection	NO/NC detector, 50VDC/50mA	
Distances	Up to 150 m between kit and readers	
IP Code	IP20	
Environmental class	Class I, indoor general conditions, temperature: +5°C to +40°C, relative humidity: 10 to 95% (no	
(acc. to EN 50133-1)	condensation)	
Dimensions H x W x D	255 x 255 x 90 mm	
Weight	3 kg	
Certificates	CE	



Fig. 2 Typical door control with MCT readers



Fig. 2 Typical door control with Wiegand readers

Notes:

- In case of read-in door, single reader is connected to the controller. MCT terminal can be then configured with default ID=100 address.
- In case of PRT readers, the diagram is the same as in case of MCT readers except for connection to CLK and DTA lines instead of RS485 A and B lines.
- Diagrams include doors with electric strikes. In case of electromagnetic lock, the NC terminal of relay is used instead of NO terminal.
- Diagrams include exit buttons. In case of read-in/out doors they can be used for emergency door opening.



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