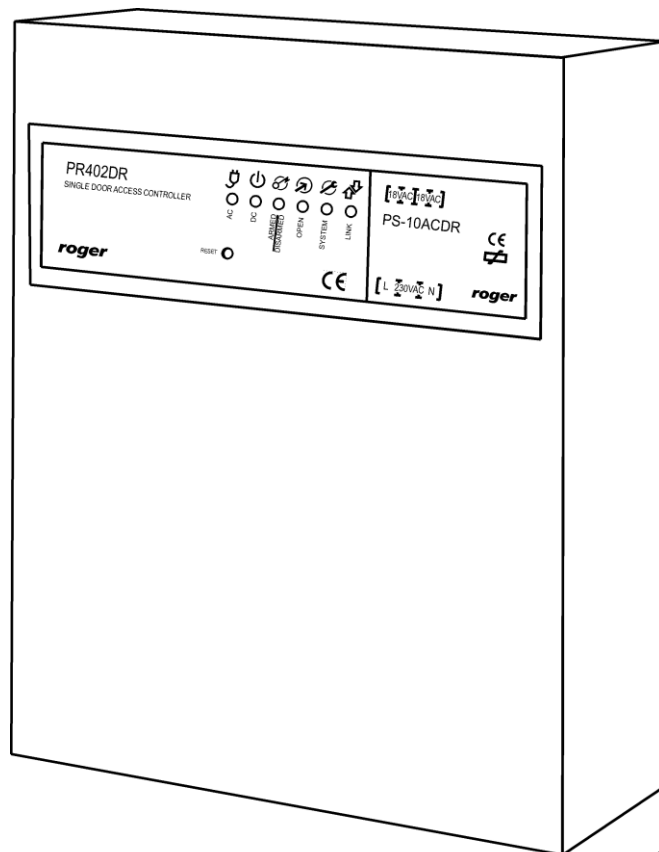


Roger Access Control System

Installation guide for PR411DR-SET and PR402DR-SET

Hardware version: 1.4

Document version: Rev. E



rcdr161

1. INTRODUCTION

1.1. This manual

This document contains essential information required during installation of PR411DR-SET and/or PR402DR-SET. Detailed information regarding installation of PR411DR or PR402DR access controllers as well as PS-10ACDR power supply unit can be found in included installation guides of these devices. Detailed information regarding configuration and functionalities of PR411DR or PR402DR access controllers can be found in functional manuals for PRxx1 and PRxx2 series respectively, available at www.roger.pl website.

2. DESCRIPTION AND SPECIFICATION

PR411DR-SET and PR402DR-SET (further referred to as PR4xxDR-SET) are kits consisting of PR411DR or PR402DR access controller and mains power supply module PS-10ACDR (18VA) factory assembled in metal enclosure with a place for backup battery 7Ah/12V. The enclosure is equipped with tamper switch and LED indicator glass. Each set can provide single door access control point with one or two side identification. Each set can work with PRT series readers manufactured by Roger, or with any other terminals working in one of popular data transmission formats like Wiegand or Magstripe. Connection method is given in Installation Guides of PR411DR and PR402DR controllers.

Benefits related to access control sets:

- Complete solution. The kit contains all (apart from readers) devices needed to build fully functional access control point
- Possibility of fixing to ceiling
- Direct view of access controller status through enclosure glass
- Esthetical metal enclosure
- Quick and easy installation by means of included accessories

Table 1. Specification	
Supply voltage	230VAC (+/- 15%), 50Hz
Tamper	30VDC/0,5A
Place for backup battery	7Ah/12V; sealed lead-acid battery (SLA)
Front panel closing	Two screws in front of the enclosure
Environmental class (according to EN50131-1)	Class I, indoor conditions, temp.: +5°C - +40°C, relative humidity: 10 - 95% (no condensation)
Dimensions H x W x D	212 x 258 x 73mm
Weight (without battery)	approx. 2250g
Certificates	CE

PR4xxDR-SET contains the following elements:

- PR4xxDR access controller in plastic enclosure adapted to installation on DIN 35mm rail
- Proximity card of Master user
- Set of jumpers for addressing the controller
- Mains transformer PS-10ACDR
- Metal enclosure with glass window, tamper switch, DIN rail (35mm)
- Mounting screws
- Back-up battery connection and fastening accessories
- Manuals

3. INSTALLATION

3.1 Installation guidelines

The enclosure should be mounted by qualified installer with adequate certificates and authorizations for 230VAC and low voltage installations.

Power transformer is designed for continuous operations and is equipped with overload protection. The final user should be informed by installer of method for disconnection of 230VAC power supply (e.g. marking of dedicated fuse in switchgear). Electrical installation must be completed in accordance with valid regulations and standards. Apply 3 wire cable for power supply circuit (230VAC) including yellow-green PE protective conductor.

PR4xxDR-SET is designed for indoor operation, in accordance with environmental class I (temp. +5°C - +40°C, humidity: 10..95% (without condensation). Metal enclosure of the set can be installed either in vertical (wall) or in horizontal position (ceiling).

Note : In case of ceiling mounting please pay attention to proper back-up battery fastening. In order to ensure firm and solid fastening please use cable ties enclosed to the set. In case of improper battery fastening method, battery can unintentionally drop out of the enclosure and cause serious injury.

While choosing a place for installation, please make sure that ventilating holes, placed at top and bottom of the enclosure, are not covered.

Note: Prior to starting installation and maintenance works it is necessary to ensure that 230VAC power supply is disconnected. Any works inside the enclosure should be done with disconnected 230VAC voltage. It is forbidden to use power supply unit without proper and effective electric shock protection. Otherwise it may cause damage to devices and injuries (electric shock).

3.2 Installation

Installation of the set should be done according to the following procedure:

- Install back part of the enclosure in desired place and bring power supply and signal cables into the enclosure.
 - Connect 230VAC power supply cables to L-N connectors of PS-10ACDR transformer module (see also Installation guide for PS-10ACDR).
 - Connect PE cable (yellow-green). The enclosure is equipped with a set of cables for connecting ground. One of cables, terminated with block terminal should be connected with PE cable power supply, while the second one, terminated with flat push connector (female) should be connected with front part of the enclosure using complementary flat push connector (male) attached to one of sides of the enclosure.
 - Connect output terminals of PS-10ACDR transformer with P1 and P2 terminals of PR4xxDR access controller.
 - Make all remaining cable connections according to desired access controller configuration.
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Note: Due to limited output power of PS-10ACDR transformer, the maximal current at AUX output of PR4xxDR controller in PR4xxDR-SET equals to 0.8A. This AUX output is sometimes used for providing power supply to door strike or magnetic lock.

- Install backup battery in its place (see Fig.1) and then attach it to the enclosure with enclosed cable ties, using special hooks of the enclosure. Cable ties should be connected in a loop maintaining the battery in stable position (see Fig.2). Check if the battery is firmly installed.
- Connect backup battery and mains voltage.
- Configure PR4xxDR access controller according to desired work scenario (see adequate manuals for PRxx2/PRxx1 access controllers).

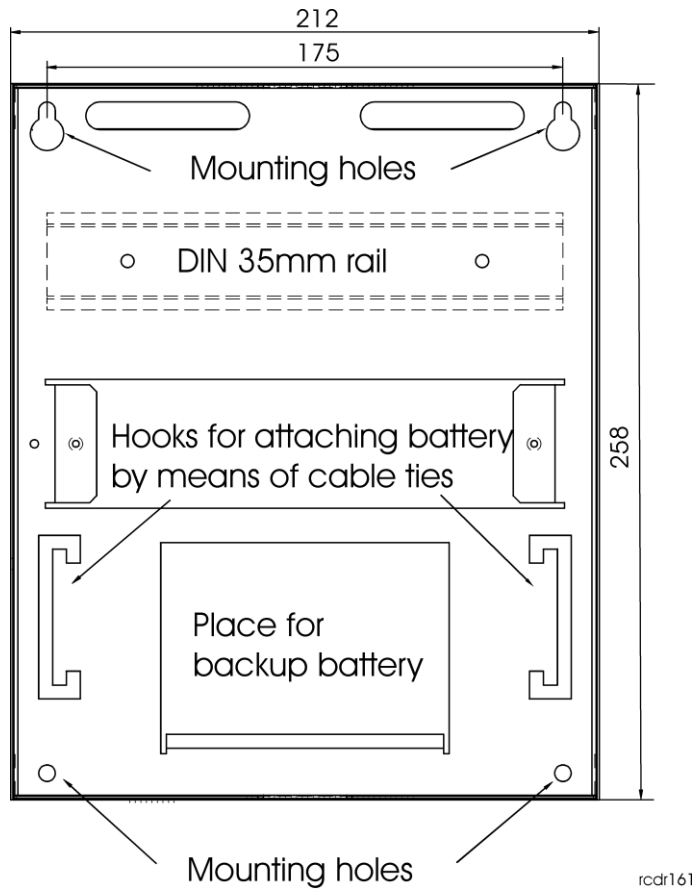


Fig. 1 Schematic view of PR4xxDR-SET enclosure

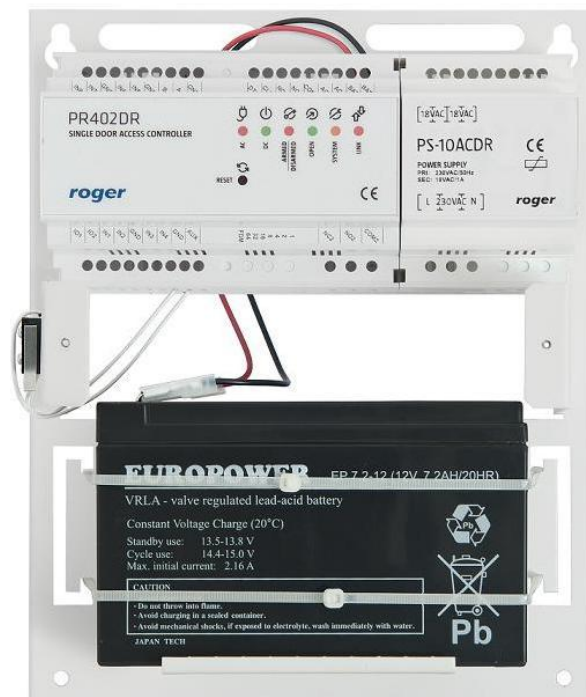


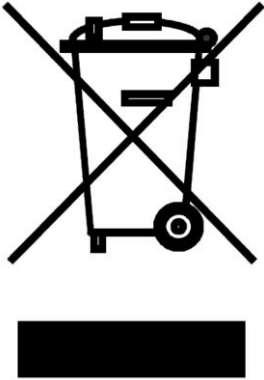
Fig. 2 Internal view of enclosure with installed PR402DR access controller, power supply module and back-up battery fastened with cable ties

4. ORDERING INFORMATION

Table. 2 Ordering information	
PR411DR-SET	Access control set containing PR411DR access controller, mains power supply module and metal enclosure
PR402DR-SET	Access control set containing PR402DR access controller, mains power supply module and metal enclosure
PS-10ACDR	Mains transformer in 35mm DIN rail enclosure
PR411DR	Access controller in 35mm DIN rail enclosure
PR402DR	Access controller in 35mm DIN rail enclosure

5. PRODUCT HISTORY

Table 3. Product history		
Product version	Released	Description
PR4xxDR-SET v1.0	10/2011	First commercial version of the product
PR4xxDR-SET v1.1	12/2011	PR4xxDR access controller in version 1.1 applied
PR4xxDR-SET v1.2	08/2012	PR4xxDR access controller in version 1.2 applied
PR4xxDR-SET v1.3	09/2013	PR4xxDR access controller in version 1.3 applied
PR4xxDR-SET v1.4	02/2016	PR4xxDR access controller in version 1.4 applied

	<p>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.</p>
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