Roger Access Control System

PR411DR-SET and PR402DR-SET v1.0

Access Control Sets

Document version: Rev.A

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1. GENERAL

1.1. Introduction

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 module can be found in installation manuals of these devices enclosed with the set. Detailed information regarding configuration and functionalities of PR411DR or PR402DR access controllers can be found in general manuals for PRxx1 and PRxx2 series respectively, available at www.roger.pl website.

1.2 Typing conventions

Installation guide	references to other documents written in italics
Notes	separated with two lines from the standard text

2. DESCRIPTION AND SPECIFICATION

2.1 Characteristics

PR411DR-SET and PR402DR-SET (also commonly called 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 back-up battery 7Ah/12V. The enclosure is equipped with tamper switch and status LED window. Each set is dedicated to build 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, Magstripe, Clock&Data and others (see *Installation guide for PR411DR v1.0 Access Controller* or *Installation guide for PR402DR/PR402DR-BRD Access Controllers*).

Main advantages provided by access control sets:

- Complete solution. The kit contains all (apart from readers) devices needed to build fully functional access control point
- Possibility of ceiling mounting
- Direct view to access controller state thanks to window in the enclosure
- Esthetical metal enclosure
- Quick and easy installation thanks to enclosed accessories

2.2. Kit contents

PR4xxDR-SET contain the following elements:

- PR4xxDR access controller in DIN rail enclosure
- Master card
- Set of jumpers for addressing the controller
- Mains transformer PS-10ACDR
- Metal enclosure with window, tamper switch, DIN rail (35mm)
- Mounting screws
- Back-up battery connection and fastening accessories
- Instruction 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 thermal sensor which automatically disconnects it from power network in case of overload. The final user should

be informed by installer of method for disconnection of 230VAC power supply (e.g. marking and separation of fuse in switchgear). Electrical installation must be completed in accordance with valid regulations and standards.

Note: Use 3 wire cable for power supply circuit (230VAC) including yellow-green PE protective conductor.

Both PR4xxDR-SETs were designed to work indoors, with accordance to 1st Environmental class (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 method. In order to ensure accurate and firm 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, will not be 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 introduce power supply and signal cables into the enclosure.
- Connect 230VAC power supply cables to L-N connectors of PS-10ACDR transformer module (see *PS-10ACDR Installation Guide*).
- Connect the earthing cable (yellow-green). The enclosure is equipped with a set of cables for connecting the earthing. 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 AC terminals of PR4xxDR access controller.
- Make all required low voltage connections according to desired access controller work scenario.
- Put back-up battery in its place (see Fig.1) and then attach it to the enclosure with enclosed cable ties, using special hooks of the enclosure. Both 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 back-up battery and mains voltage.
- Configure PR4xxDR access controller according to desired work scenario (use adequate manuals for PRxx2/PRxx1 access controllers).
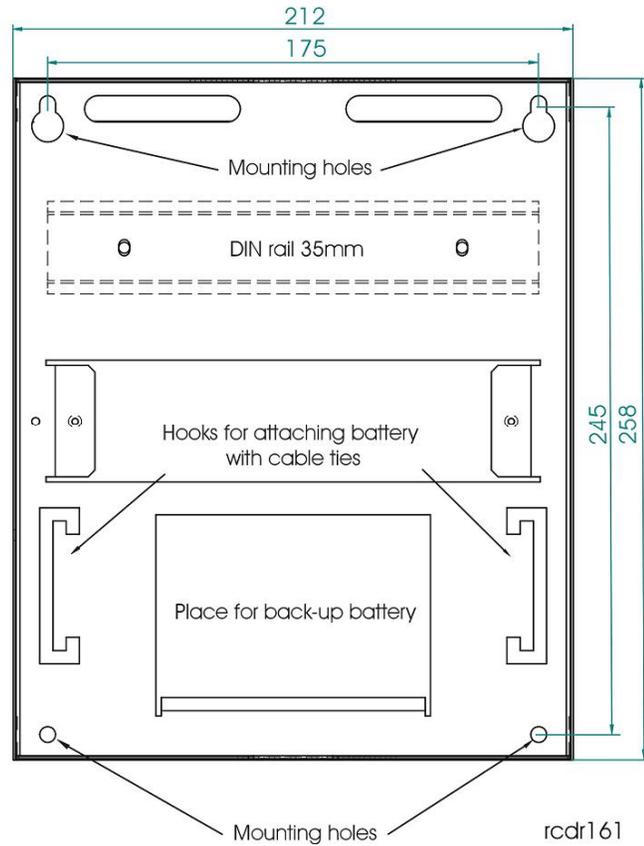
Fig. 1 Schematic view of internal space of enclosure with key points marked
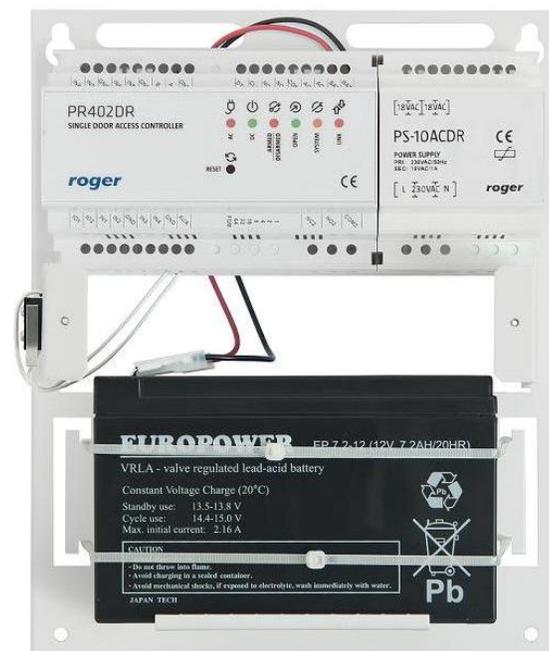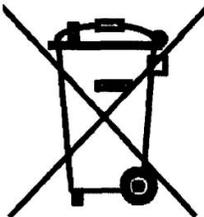

Fig. 2 Internal view of enclosure with installed PR402DR access controller, power supply module and back-up battery fastened with cable ties

4. TECHNICAL SPECIFICATION

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

5. ORDERING INFORMATION

Products part numbers	
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

	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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