

PR300

BATTERY



Instructions translated from Italian

1 - Safety and user warnings

CAUTION! – Incorrect installation can cause serious injury to the installer and user; make sure to strictly follow the safety information and instructions given in this manual when installing the product. Do not proceed if in any doubt regarding installation; contact Nice Technical Assistance for clarifications.

Caution! – Observe the following warnings:

– proceed with the installation and hook up the PR300 ONLY after completing the testing and commissioning procedures given in the automation instruction manual. Before installing and hooking up the PR300, shut off power to the system; now hook up the PR300 and check that the automation controller completes the standard start-up sequence: should it fail to do so, check that the connectors are properly inserted and the condition of the PR300 itself. If the start-up sequence terminates successfully, reconnect the mains power supply.

– Never modify any part of the product in any way other than specified in this manual. The manufacturer declines all liability for damage caused by makeshift modifications to the product.

– During installation, ensure that no parts of product come into contact with water or other liquids. Should this occur, contact Nice Technical Assistance.
– The product packaging material must be disposed of in full observance of current local legislation governing waste disposal.

– Keep this manual in a safe place to enable future product maintenance and installation operations.

– At the end of the product's service life, ensure that the materials are recycled or scrapped according to current local standards.

To guarantee an optimal service life, the following warnings should be observed:

– The PR300's battery takes 24 hours to recharge when completely drained.

– The PR300 is an emergency power device; use it conservatively in case of power outage. Excessive and continuous use can lead to overheating of the elements, which over time may reduce the normal lifetime of the battery.

– Should a power outage occur, do not leave the automation powered solely by the PR300 for more than a few days: its power circuits may be drained too far and compromise its battery life.

– In the event of prolonged disuse of the automation, the PR300 should be removed and stored in a dry location to avoid degrading the efficiency of its battery.

2 - Description of product and intended use

The PR300 is composed of a battery charger board and a 24 V / 1.3 Ah rechargeable battery.

It is designed exclusively for use with Nice Home automation systems for gates and similar equipment. **CAUTION! – Any use other than as described herein is to be considered improper and is strictly prohibited!**

The PR300 stores power while the automation system is powered off the mains, and supplies power during mains power outages (backup). When fully charged, the battery provides sufficient power for ten or so consecutive movement cycles (1 cycle = open - close). Its other specifications are given in Chapter 7.

3 - Installation

3.1 - Pre-installation checks

- Check that the packaging is intact before opening, and then check the product inside.
- Before proceeding with battery installation, check the compatibility of the selected model with the automation in which it is to be installed.

3.2 - Operating limits

The PR300 may only be installed to Nice Home automation systems expressly specified to use it.

3.3 - Installation

To install the PR300, proceed as follows, with reference to the automation system's instruction manual:

1. Hook up the battery to the battery charger board as indicated in **fig. 1 - A**.
2. Hook up the battery charger board to the automation system with the provided cable as indicated in **fig. 1 - B** and in the automation system manual.

4 - Testing and commissioning

The following tests should be run immediately after connecting the battery to the control unit.

- Make sure that led **L2 (fig. 1)** is on to indicate that the battery is supplying power to the system.
- Make sure that the different LEDs on the control unit confirm that it is operating properly. **Note:** If these conditions are not satisfied, it probably means that the battery is completely drained; in this case proceed to the next step and wait a few hours with the automation system powered by the mains before testing the operation of the battery again.
- Connect the automation system to the mains supply and check that led **L1 (fig. 1)** turns on to confirm that the battery is recharging properly.
- Run at least one open/close cycle to check that the system operates properly when powered off the mains.
- Disconnect the automation system from the mains, and check that led **L2 (fig. 1)** is on; run at least one open/close cycle to check that everything is working as it should even with battery power.
- At the end of the tests, reconnect the automation to the mains.

5 - Scrapping

Caution! - The product operates with batteries which may contain polluting substances and which MUST NOT be scrapped with domestic the sorted waste collection procedures envisaged by current local standards.



6 - Maintenance

The PR300 buffer battery does not require any maintenance; however, in case of long periods of inactivity it should be disconnected from the system and stored in a dry location. The battery must be replaced when its autonomy is significantly reduced as a result of ageing.

7 - Technical characteristics

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| Type | Kit of 24 V battery complete with battery charger for powering automation systems for automatic gates and doors in case of power outage. |
| Technology adopted | Accumulation of electrical energy with sealed NiMH batteries (maintenance free). |
| Charge-discharge voltage | 28 V at maximum charge; 20 V at maximum discharge (the battery is disconnected automatically when totally discharged) |
| Accumulation capacity | 1.3 Ah, corresponding to an autonomy of approx. 12 hours with the automation system in standby or 5 min-utes with a 4 A load, corresponding to an average of at least 10 cycles. |
| Current delivered | Rated 4 A; 7.5 A for 2 seconds |
| Complete recharge time | approx. 24 hours |
| Battery lifetime | Estimated 4 – 6 years, or more than 500 cycles at 50% discharge / 200 100% charging cycles |
| Ambient operating temperature | -20 ... +55°C (the efficiency of the battery drops as the temperature falls, while higher temperatures reduce its service life) |
| Assembly and connections | Insertion in specific compartments in control units or gearmotors. Connection via supplied cable. |
| Protection rating | IP 30 (use only inside control unit, gearmotors or other protected conditions) |
| Dimensions / Weight | 155 x 125 x 40 mm 700 g |