

# AC-825IP

## Networked Controller

### Datasheet



#### Introduction

The AC-825IP is a 6-door networked access controller suitable for a medium scale to high-scale security system. The controller comes with one onboard expansion slot to connect an additional 6 readers or a maximum of 12 expansion boards via OSDP V2 including secure channel protocol. Using D-805 door expansion boards, a single AC-825IP can handle up to 58 doors and 100,000 users. Driven by Rosslare's AxTraxNG™ or AxTraxPro™ Access Control Management Software – the system provides a modular and expandable solution for commercial and institutional needs.

#### General Description

The AC-825IP access control unit supports up to 6 doors (In/Out) or up to 12 supported expansions<sup>1</sup>. Four additional auxiliary inputs and 2 auxiliary outputs are also on board.

The AC-825IP has TCP/IP communication to the AxTraxNG or AxTraxPro server and has a OSDP bus for expansion and/or reader connectivity.

In addition, the AC-825IP and its expansions can be placed in a ME-1515 lockable metal enclosure.

#### Main Features

- Up to 58 doors, 100,000 users, and 500,000 history log entries (FIFO) per ACU
- Onboard TCP/IP networking to the AxTraxNG or AxTraxPro server, bidirectional push communication for enhanced data transmission speed and reliability
- Supports SIA Open Supervised Device Protocol (OSDP V2) including OSDP Secured Channel Protocol to let the AC-825IP controller connect to any peripheral device that supports OSDP<sup>1</sup>
- A  
ES 256-bit symmetric data encryption to the AxTraxPro server to make sure the data is secure
- 4 auxiliary inputs and 2 auxiliary outputs
- One onboard expansion slot and an additional 12 expansion boards via OSDP V2 including secure channel protocol (R/S/D/P-805)
  - R-805 – 16 outputs
  - S-805 – 16 inputs
  - D-805 – 4-door expansion
  - P-805 – 16 inputs and 8 outputs
- AC-825IP can be installed in a ME-1515 metal enclosure
  - Holds 2 expansion boards or an AC-825IP board
  - C14 power plug and supports Pull-Safe™ cable locks for secured wiring
  - Built-in tamper and light bar
  - DIN rail mounting option for space saving with no additional enclosure needed
  - Power management board indicates battery and power status

<sup>1</sup>AxTraxNG supports 4 Wiegand and 2 OSDP V1 plus up to 12 expansions.

AxTraxPro supports 4 Wiegand and 2 OSDP V2 plus up to 12 expansions or 6 OSDP V2 devices.

## Specifications

| ELECTRICAL SPECIFICATIONS                | AC-825IP   | R-805                                | S-825 | D-805 | P-805 |
|--|--|--------------------------------------|-------|-------|-------|
| Enclosure                                | ME-1515  | ME-1515 (up to 2 R/S/D/P expansions) |       |       |       |
| Enclosure SMPS                           | Input: 90 to 265 VAC, 50–60 Hz, Switch mode power management board<br>Output: 12 VDC, 4 A  |                                      |       |       |       |
| PCBA Input Power                         | 12 VDC, 2 A, regulated power management board  |                                      |       |       |       |
| Battery Charger                          | 12 V sealed lead acid (SLA) up to 7 Ah   |                                      |       |       |       |
| OPERATIONAL SPECIFICATIONS               |  |                                      |       |       |       |
| Relays 5-A, Form-C                       | 6  | 16                                   | N/A   | 4     | 8     |
| Inputs                                   | 12   | N/A                                  | 16    | 8     | 16    |
| Readers (Wiegand+OSDP <sup>1</sup> )     | 6  | N/A                                  | N/A   | 4     | N/A   |
| Expansion Port                           | 1  | N/A                                  |       |       |       |
| Connectivity                             | TCP/IP<br>OSDP <sup>1</sup><br>Wiegand   | OSDP <sup>1</sup>                    |       |       |       |
| OPERATIONAL SPECIFICATIONS AC-825IP Only |  |                                      |       |       |       |
| Capacity                                 | Up to 100,000 users  |                                      |       |       |       |
| History Event Log Size                   | Up to 500,000 entries  |                                      |       |       |       |
| Expansion                                | One onboard expansion slot and an additional 12 expansion boards via OSDP V2 (R/S/D/P-805)   |                                      |       |       |       |
| Time Zones and Groups                    | 256 multi-segment time zones, 64 holidays – each holiday can be of multiple days, Practically unlimited access groups  |                                      |       |       |       |
| Special Features with AxTraxNG/AxTraxPro | Interlock, first-person delay, auto-relock, scheduled outputs operation, 4 programmable site codes, extended unlocked time, fully interconnectedness, car parking management, antipassback (per reader, between readers) |                                      |       |       |       |
| Secured Communication <sup>2</sup>       | OSDP V2 including secure channel<br>AES 256-bit symmetric data encryption  |                                      |       |       |       |
| ENVIRONMENTAL SPECIFICATIONS             |  |                                      |       |       |       |
| Operating Temperature Range              | -5°C to 50°C (23°F to 122°F)   |                                      |       |       |       |
| Storage Temperature Range                | -25°C to 50°C (-13°F to 122°F)   |                                      |       |       |       |
| Operating Humidity                       | 0 to 85% (non-condensing)  |                                      |       |       |       |

<sup>1</sup>AxTraxNG only supports 4 Wiegand and 2 OSDP V1.

AxTraxPro can supports 4 Wiegand and 2 OSDP V2 or 6 OSDP V2 devices.

<sup>2</sup>Only available with AxTraxPro.

| MECHANICAL SPECIFICATIONS       | AC-825IP                                      | R-805                                     | S-825          | D-805 | P-805          |
|---------------------------------|---|---|----------------|-------|----------------|
| PCBA/Expansion Board Dimensions | 224 x 164 mm<br>(8.8 x 6.46 in.)              | 178 x 87 x 30 mm<br>(7.0 x 3.4 x 1.1 in.) |                |       |                |
| PCBA/Expansion Board Weight     | 400 g (14.1 oz)                               | 230 g (8.1 oz)                            | 150 g (5.3 oz) |       | 200 g (7.1 oz) |
| Enclosure Dimensions (HxWxD)    | 346 x 404 x 101 mm<br>(13.6 x 15.9 x 3.9 in.) |   |                |       |                |
| Enclosure Weight                | 4.6 kg (10.1 lb)                              |   |                |       |                |

**System Components:** AC-825IP is compatible with a range of Rosslare accessories, including a diverse selection of readers and accessories; four expansion boards.

**Product Warranty:** 2-year limited product warranty



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