

# 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 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 OSDP <sup>1</sup> 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 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 (8.8 x 6.46 in.)	178 x 87 x 30 mm (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 (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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