AC-825IP

Advanced Scalable Networked Access Platform

| R-805 | S-805 | D-805 | P-805 | ME-1515 with 2 Expansions | ME-1515 with AC-825IP |

The AC-825IP is a state-of-the-art 4-door networked access controller and is the backbone of a medium-scale to high-scale security system. The controller comes with one onboard expansion slot and can be further expanded by connecting up to 12 expansion boards via OSDP. Using only D-805 door expansion boards, a single AC-825IP can handle up to 58 doors and 60,000 users. Driven by AxTraxNG™ – Rosslare's powerful, flexible, and easy-to-use software – the system provides an ideal modular and expandable solution for commercial and institutional needs.

GENERAL DESCRIPTION

The AC-825IP features a new spacious and lockable metal enclosure that includes a control board, power switcher, built-in power management board/charger, sounder, and a revolutionary enclosure illumination bar that lights up when the enclosure is opened.

Each AC-825IP access control unit (ACU) supports up to 4 doors (In/Out) via Wiegand protocol and 2 doors via OSDP, each with 2 inputs and 1 output. Four additional auxiliary inputs and 2 auxiliary outputs are also on board.

The AC-825IP includes AES128-bit encrypted communication via TCP/IP to an AxTraxNG server, and has an additional RS-485 bus for expansion connectivity.

MAIN FEATURES

- Up to 58 doors, 60,000 users, and 500,000 history log entries (FIFO) per ACU
- Onboard TCP/IP networking with AES 128-bit data encryption to an AxTraxNG server, bi-directional push communication for enhanced data transmission speed and reliability
- Supports up to 6 doors (Wiegand format/OSDP readers), each with 2 inputs and 1 output.

- 4 auxiliary inputs and 2 auxiliary outputs
- Supports 2 OSDP readers
- One onboard expansion slot and an additional 12 expansion boards via OSDP (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
- ME-1515 metal enclosure holds 2 expansion boards or an AC-825IP board with a C14 power plug
- Real-time clock keeps time for up to 2 weeks without power (no batteries to replace)
- Spacious and lockable metal enclosure, features cable twist locks and zip-tie anchors for better cable management
- DIN rail mounting option for space saving with no additional enclosure needed
- Power management board indicates battery and power status
- Revolutionary enclosure with illumination bar that lights up when enclosure is opened, tamper sensing, and power status LED

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SPECIFICATIONS

ELECTRICAL SPECIFICATIONS	AC-825IP	R-805	S-805	D-805	P-805
▪ Enclosure	ME-1515 (Controller+ expansion)	ME-1515 (up to two 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)	6	N/A	N/A	4	N/A
▪ Expansion Port	1	N/A			
▪ Connectivity	TCP/IP, OSDP, G-bus*	OSDP			

OPERATIONAL SPECIFICATIONS AC-825IP only	
▪ Capacity	Up to 60,000 users
▪ History Event Log Size	Up to 500,000 entries
▪ Expansion	One onboard expansion slot and an additional 12 expansion boards via OSDP (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	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)
▪ Security Modes	Normal and Secure

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)

MECHANICAL SPECIFICATIONS	AC-825IP	R-805	S-805	D-805	P-805
▪ PCBA/Expansion Board Dimensions	224 x 164 mm (8.8 x 6.46 in.)	178 x 87x 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 (H x W x D)	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

ABOUT ROSSLARE SECURITY
Rosslare Security Products manufactures and markets high-quality security products via its worldwide offices and channel partners. Since 1980, Rosslare has offered high-quality systems for enterprise, small business, and residential applications. With Rosslare, you receive the best of all worlds: world-class product engineering and design; professional customer service spanning the globe; and the quality and affordability of a vertically integrated and self-owned manufacturing facility. Our expansive product range features much more than access control solutions and guard patrol management systems; we also offer applications software – such as License Plate Recognition, Time & Attendance, and DVR/alarm integration. www.rosslaresecurity.com

* Will be available in future firmware updates
All data contained herein subject to change without notice

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