AC–225

Advanced Scalable Networked Access Controller

The state-of-the-art single/dual door AC-225 networked access controller is the backbone of medium scale security systems handling up to 30,000 users and 2000 doors. Driven by Rosslare's powerful, flexible and easy to use software, the system provides an ideal, modular and expandable solution for commercial and institutional needs. It provides seamless integration with Rosslare's range of RFID Proximity, PIN, PIN & PROX, Smartcard and biometric readers with Rosslare's selection of RFID credentials.
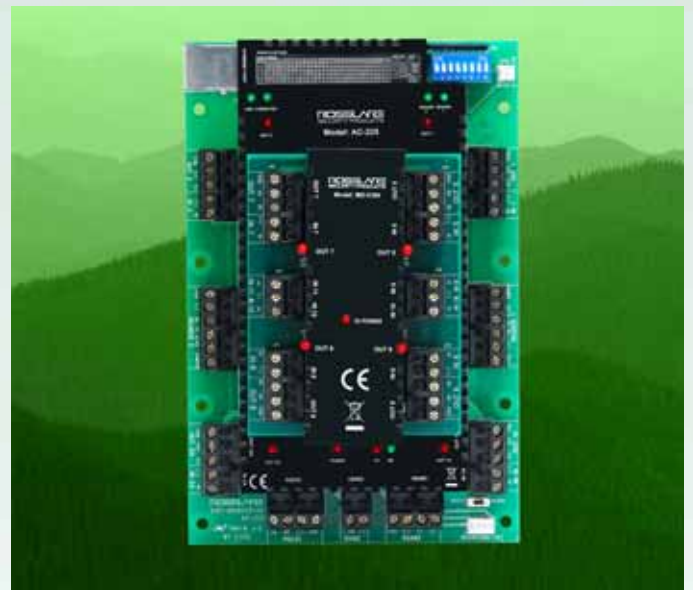
General Description

AC-225 is suitable for applications with up to 30000 users across a modular 2000 doors, allowing maximum flexibility for securing a growing enterprise.

Each AC-225 Access Control Unit (ACU) supports two readers (In/Out) of various formats including standard Wiegand 26-bit. Installations can also have one reader per door.

The AC-225 is ready for installation with a mountable & lockable metal enclosure integrated with transformer, power supply/charger, sounder and control board.

Using onboard RS-232, Ethernet TCP/IP, and PSTN, multiple local or remote site door sub-networks can connect to the AS-225 Client/Server PC software running on Microsoft® Windows® 98/ME & NT/2000/XP operating systems.
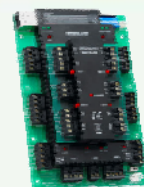

Main Features

- Up to 30000 users with access rights for every panel, across 2000 modular doors in a system.
- 20000, FIFO, history event log, when offline.
- Full intelligent logic interconnection of inputs, outputs, readers, and more
- 4 inputs, 4 outputs, up to 12 inputs and 8 outputs with MD-IO84 IO expansion
- Supervised, 4 state end-of-line inputs.
- Onboard TCP/IP networking (AC-225IP version)
- Panel supports both 1 door (In/Out) and 2 door (In/Out, In/In and Out/Out) configurations.
- Real-time clock keeps time for up to 2 weeks without power. No batteries to replace.
- Cable cut tamper detection function for readers, and cover tamper detection for the enclosure.
- Pre-installed enclosure components:
  - o transformer, dual power supply/charger unit for panel and Lock devices
  - o Sounder unit
  - o Space for a 7AH SLA backup battery
  - o Tamper switch

AS-225 CLIENT/SERVER SOFTWARE HIGHLIGHTS

- Each ACU subnet, consisting of up to 32 ACUs, may be connected to a PC running the AS-225 server PC software.
- Enables management of user data, photo with custom fields, access rights, alarms, strike times, and door modes, from a central location.
- Used for continuous event monitoring, or periodically for batch downloading of event data, administration and maintenance.
- Other PC's on the network may connect to the server by installing the AS-225 PC software *client* application.
- Produces reports from acquired data, such as entry and exit times, and by alarm type with filters for user(s), location, and time.
- The AS-225 software is available in a large selection of languages.
- Highly user friendly and straight-forward interface provides an easy and fast setup.

AC–225 Advanced Scalable Networked Access Controller

Product Specifications

ELECTRICAL CHARACTERISTICS	
ACU Power Supply Voltage:	12VDC, regulated from built-in PS-14 regulated power supply / Charger module
ACU Power Supply Max Current:	Panel output: 500mA input current limitation (PS-14) Lock output: 1500mA Battery output: 300mA
Relays:	4 fully programmable 5A, N.O. and N.C. relay outputs 4 expandable outputs with optional MD-IO84
Battery Charger:	12V sealed lead acid (SLA) up to 7Ah (PS-14)
Maximum Current for Readers:	300mA at 12VDC
OPERATIONAL CHARACTERISTICS	
Capacity:	30000 Users
History Event Log Size:	20000 Events
Inputs:	4 Supervised, dual-resistor, 4 state end-of-line inputs, Hi-impedance, active low 5VDC 8 expandable inputs with optional MD-IO84
Readers:	Two Wiegand 26/32/34/37/40 bit / C&D reader ports with tamper and LED control, 4,6 and 8 bit burst keypad transmission support
Connectivity:	RS-485/232, Dial-up (using MD-N33), onboard TCP/IP (AC-225IP version)
Networking:	32 Units/subnet, 1000 subnets (2000 doors max.) using AS-225 software
Audio/Visual:	Built-in sounder (Alarm, Chime, Bell), 11 on-board and 3 P.S. LEDs
Modes of Operation:	Single Door (In/In), Dual Door (In/Out)
Time Zones and groups:	32 multiple segment time zones, 64 holidays, 1000 access groups
Anti-Pass Back:	Local and Global anti-pass back (soft / hard), with 'forgive' option
Special Features:	Interlock, first person delay, auto relock, scheduled outputs operation, 4 programmable site codes, Extended unlocked time, fully interconnectedness.
Security Modes:	Normal and Secure
Firmware Upgrade:	Local / Remote, Through AS-225 PC software
PHYSICAL CHARACTERISTICS	
ACU Board Dimensions:	168mm x 121mm (6.61" x 4.76")
Enclosure:	Metal, locked 326mm x 263mm x 97mm (12.8" x 10.4" x 3.82")
Weight:	2.4kg (5.3 lbs)
ENVIRONMENTAL CHARACTERISTICS	
Operating Environment:	Indoor installation only
Operating Temperature:	0°C to 49°C (32°F to 120°F)
Operating Humidity:	0 to 85% (non-condensing)
RFI Protection:	> 20 V/m up to 1000 MHz

System Components

AC-225 is compatible with a range of Rosslare accessories, including a diverse selection of readers and accessories.

Additional Information

The following models are available:
- **AC-225**
- **AC-225IP (onboard TCP/IP module)**
- **AC-225-PCBA**
- **AC-225IP-PCBA**

The following Expansions are available:
- **MD-IO84 (input/output expansion module)**

The AC-225 is covered by Rosslare's 2-year Limited Product Warranty. For sales information or product documentation, please visit our website: http://www.rosslaresecurity.com.

RoHS COMPLIANT

TÜV CERT
DIN EN 9001:2000
ISO 14001:2004