

EtherProx™ EPO200/210

Intelligent Proximity/Smartcard Reader

OVERVIEW

The EtherProx™ reader is the industry's smallest Ethernet card reader with integrated keypad, LCD display and internal database giving off-line validation and intelligent decision-making at the point of entry, even when host communications are not available. The reader also stores transaction details to be transferred to the host computer when communications are restored.

Available in both traditional 125 kHz proximity (EPO200) and MiFare smart card (EPO210) options, the EtherProx communicates directly with the central server via 10Base-T Ethernet removing the need for a door control panel in the system design. An impressive 150,000+ off-line card database is available allowing the reader to make full access control decisions independently of the host system in the event of network failure.

Designed for use as part of the CEM AC2000 and despite its small size the reader can display messages of up to 32 characters, providing system administrators and end users with immediate text descriptions of events such as 'Access Denied'. The reader provides its own anti-tamper protection and interfaces directly to the door furniture and 12V lock power supply eliminating the need for additional controllers, I/O (Input/Output) units and greatly reducing installation costs.



EtherProx™ EPO200/210

FEATURES

- Available in both 125 kHz (EPO200) proximity and MiFare smart card (EPO210) technology options
- In-built database for off-line card validation
- Direct connection to Ethernet LAN
- 128bit encryption of TCP/IP network data
- Three LED indicators to visually confirm or deny entry
- Suitable for indoor or outdoor installation
- Backlit LCD display shows easy to understand messages for the user
- Keypad for added PIN security
- Interfaces directly with door furniture and lock power supply – no need for additional controllers or I/O units
- 4 inputs to monitor alarms such as door held/forced conditions and secure side exit push button operation

PRODUCT HIGHLIGHTS

Door Control Unit Installation

The enclosure is designed to mount directly onto a standard UK or European (French) electrical containment box (American versions are provided with a compact adapter plate), meaning that standard conduit and fittings may be used.

Remote Programming

Operational parameters, e.g. door open time, are downloaded to the reader from the host computer. Additionally some parameters can also be configured via the keypad. EtherProx readers can even be remotely upgraded, eliminating the need to physically replace firmware, giving increased system flexibility and efficiency.

Card Technology

The EtherProx reader (EPO200) uses 125 kHz proximity technology under license from HID Corporation. A 13.5 MHz technology option (EPO210) of the reader is available enabling the EtherProx to read the unique ID of MiFare smart cards (ISO14443A). The following cards are supported:

Type of Card Read Range (EPO200)	
ISOProx® II Card	76mm (3.0in)
ProxCard™ Plus Card	38mm (1.5in)

ProxCard® II Card	76mm (3.0in)
ProxKey™ II Fob	25mm (1.0in)
Kantech 31bit Card	38mm (1.5in)

Type of Card Read Range (EPO210)	
Mifare Card	30mm (1.18in)

Local Database

Provides storage of up to 197,000 cardholders at the door and is retained in excess of three months without external power. The EtherProx can also store up to 50,000 transactions in offline operation.

Built-in Diagnostics

Allows testing of LED indicators, LCD display, read head, inputs, relay, network communications, keypad and database size.

Ethernet Connectivity

The EtherProx has an integral 10 base-T Ethernet interface enabling the EtherProx to be connected directly to the LAN at 10Mbits/sec.

TECHNICAL SPECIFICATIONS

PHYSICAL

Size	86 x 86 x 22mm (3.4" x 3.4" x 0.87")
Weight	222.7g (7.9oz) with connectors
Housing	Flame retardant polycarbonate containing fully encapsulated electronics.
Colour	Dark Grey
Power	
- Voltage	9 – 15Vdc
- Current Consumption	140mA (passive), 250mA (peak)
- Backup Battery	Rechargeable Lithium battery giving database backup for over 3 months.
Environmental	
- Temperature	-10° to 50°C (14° to 122°F)
- Humidity	95% non condensing
LED Indicators	Three high intensity LED indicators red, amber and green
LCD Indicators	Two line by 16 character supertwist LCD with backlight
Keypad	12 character, standard layout, tactile response keypad.

FUNCTIONALITY

Inputs	Four analog inputs (Transguard protected) (Door Position, Lock Position, REX Button, Spare)
Outputs	Two current limited open collector outputs (Door Lock, Unused – for future use)

Memory	1 MB battery backed SRAM
Database	
- Cardholders	Storage of up to 197,000 cardholders at the door.
- Transactions	Up to 50,000 transactions in offline operation.
Configuration	Operational parameters are downloaded from host computer. Some configuration setting can also be set using the keypad.

COMMUNICATION INTERFACE

To Exit Reader	RS485 multidrop cable runs using copper wire with maximum length of 1.2km without repeater
- Connection	2 part screw terminals
To System Host	10 Base-T TCP/IP using CAT5 Unshielded twisted pair Cable
- Connection	RJ45

PRODUCT CODES

EtherProx EPO200 (125 kHz Proximity)	
SPASS-EPO-200-B	EtherProx Reader
SPASS-EPO-200-A	EtherProx Reader (US Backplate)
EtherProx EPO210 (MiFare CSN)	
SPASS-EPO-210-B	EtherProx Reader
SPASS-EPO-210-A	EtherProx Reader (US Backplate)

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