CEM SYSTEMS

InfoProx™ IP0200/IP0210

Intelligent Proximity/Smartcard Reader

OVERVIEW

The compact and discreet InfoProx™ card reader is designed for use as part of an integrated on-line access control system giving off-line card 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 (IP0200) and MiFare smart card (IP0210) options, the reader, LCD display, LEDs and keypad are housed in a single polycarbonate enclosure. Despite its small size, the reader has a 32 character backlit LCD to display messages, providing system administrators and users with immediate plain 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.

The InfoProx card reader has four analogue inputs and two outputs allowing it to control local door strikes or other equipment without the need for a separate door controller. The keypad also offers additional security when PIN validation is required. An InfoProx Exit reader is also supported for IN/OUT control.

InfoProx™ IP0200/IP0210

FEATURES

- Available in both 125 kHz proximity (IP0200) and MiFare smart card (IP0210) technology options
- In-built database for off-line card validation
- 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
- Supports Entry/Exit configuration for IN/OUT control
- 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. InfoProx readers can even be remotely upgraded, eliminating the need to physically replace firmware, giving increased system flexibility and efficiency.

Card Technology
The InfoProx reader (IP0200) uses 125 kHz proximity technology under license from HID Corporation.
A 13.5 MHz technology (IP0210) option of the reader is available enabling the InfoProx to read the unique ID of MiFare smart cards (ISO14443A). The following cards are supported:

Type of Card Read Range (IP0200)

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 (IP0210)

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 InfoProx 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.

System Compatibility
The reader can be used with AC2000 or webEntry access control systems.

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	Rechargable 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	RS485 multidrop cable runs using copper wire with maximum length of 1.2km without repeater
- Connection	2 part screw terminals

PRODUCT CODES

InfoProx IP0200 (125 kHz Proximity)

SPASS-IP0-200-B	InfoProx Reader
SPASS-IP0-200-A	InfoProx Reader (US Backplate)

InfoProx IP0210 (MiFare CSN)

SPASS-IP0-210-B	InfoProx Reader
SPASS-IP0-210-A	InfoProx Reader (US Backplate)

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