

### S610e Reader

# Proximity & MiFare Intelligent IP Reader





Features that make a difference:

- Intelligent IP card reader designed for use as part of the CEM AC2000 access control software range
- Contactless card presentation with optional Personnel Identification Number (PIN) for two stage authentication
- Integral reading support for 125kHz HID Proximity and 13.56MHz smartcard technology provides multi-technology capability to read both Proximity and Mifare
- Communicates directly with the host server

   no need for an intelligent control panel in the system design
- 10/100 Mbps Ethernet host connection
- Large reader database for off-line card verification and alarms
- Large graphical LCD which is used to display a number of predefined messages
- Four Analog inputs to monitor door or alarm conditions
- Two changeover relay outputs to activate door strike or other equipment
- Remote programming facility to download updated firmware
- Easy to install
- Weatherproof casing: IP66 rated
- Available in two colours, gray and black

The S610e Card Reader is designed for use as part of an integrated on-line access control system and is used to control access to restricted areas or in special applications where card activation of machinery is required.

The reader, which has an on-board 10/100Mbps Ethernet connection, communicates directly with the CEM AC2000 host server removing the need for an intelligent control panel in the system design.

Using a powerful 32bit processor, the S610e gives full off-line card verification and decision making at the point of entry, even when host communication is not available.

Exit reader options include a twinned S610 Exit reader, Push button or a third party Wiegand Exit read head for IN/OUT control.

The IP66 rated polycarbonate enclosure houses the reader electronics and comes with a large 4x3" keypad, graphical display screen and three LED indicators.

The S610e reader has four analog inputs, which can be used to monitor door and alarm conditions for transmission to the host server. All four inputs are four state (tamper detect) capable. Two outputs are also fitted to control the activation of door locks or other equipment.

#### **Host Communications**

The S610e has an on-board 10/100 Mbps Ethernet host connection allowing it to communicate directly with the AC2000 host server, removing the need for an intelligent control panel in the system design.

## Onboard Card Reading Technologies

Designed for use with multiple card technologies the S610e device is available with integral reading support for 125kHz HIDProximity as well as 13.56MHz Mifare smartcard technology. Two additional Wiegand interfaces are available for connecting to other third party readers.

#### Proximity to Mifare Smartcard Migration

The S610e multi tech version supports the simultaneous reading of both traditional Proximity and Mifare smart cards. This enables existing sites using proximity cards to migrate to Mifare smartcards with zero system downtime and with no affect on security. The Mifare card can be used for other applications such as cashless vending, biometric storage, logical access and more.

#### Off-line Card Validation

The card reader's off-line database is downloaded to the reader's memory from the host computer with subsequent changes to card data automatically sent as updates. This ensures that the reader has up-to-date card information when operating in offline mode. Alarms and transactions recorded in off-line mode are passed automatically to the host system when the reader communications are re-established; reader updates made while off-line are also made good.

#### **Reader Messages**

The S610e has a large graphical LCD which is used to display a number of predefined messages to cardholders depending on their privileges e.g. Wrong Zone, Lost/Stolen Card, Card About to Expire, Access Granted and many more. Messages to be displayed by the S610e can be modified via the AC2000 software or translated into local languages.

#### Easy to Install

The S610e is designed to be extremely easy to install. The installer simply enters the unit IP address on the server, provides it with power, connects to an



Ethernet network and the reader self-configures by means of downloading data from the host. A 50,000 off-line cardholder database can be downloaded in less than 2 minutes. Some configuration setting can also be set using the keypad.

**Remote Programming** 

The S610e reader can be remotely programmed from the host computer, eliminating the need to physically replace firmware, giving increased system flexibility and efficiency.

Some configuration setting can be set using the keypad and operational parameters, e.g. door open time, can also be downloaded to the reader. Standard Operating Modes include, but are not limited to, Door Access, Passenger, Turnstile, Verification, Control Post, and Equipment Enable.

#### **Specifications**

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Size..... 142 x 115 x 44mm (5.6 x 4.5 x 1.7") 

Housing..... Flame retardant polycarbonate containing

fully encapsulated electronics Color options..... Dark and Light Gray or Black

Power

Voltage . . . . . . . . . . . . . . 9 – 14Vdc

Current Consumption . . . . 125 kHz Prox - 200mA (passive), 320mA (peak)

MiFare - 220mA (passive, 290mA (peak)

Environmental

IP Rating . . . . . IP66

Temperature . . . . . -20°C to 60°C (-4°F to 140°F)

LED Indicators...... Three high intensity LED indicators red,

amber and green

LCD Indicators . . . . . . . . . 32 x 122 dots Monochrome Graphics

supertwist LCD with backlight 

tactile response keypad

Functionality

Inputs . . . . . . Four analog inputs – voltage supplied,

4 state (tamper detect)

Outputs..... Two relays fitted - Changeover volt

free contacts Rating . . . . . . . . . . . . . . . . 30Vdc @ 5A

Duration . . . . . . . . Programmable suppression device

(diode, MOV) required at load Memory..... 2 MB battery backed memory

Compact Flash . . . . . . . . . 32 MB Typical (Optional)

Database Battery Backup . . . 3.0V rechargeable Lithium-Ion

Dynamic Database Sizes

in Offline Operation . . . . . 8 Byte Mode (card number/Time Zone/

PIN/Card Status)

Card holders Transactions 210,000 10.000 150,000 50.000 80.000 100.000

3 Byte mode (Card number only) Card holders **Transactions** 430,000 10,000 310,000 50.000 160,000 100.000

Communication Interface

To Exit Reader..... RS485 multi-drop cable runs using copper wire

with maximum length of 1.2km without repeater 2 Wiegand interfaces with maximum length

of 150m

Connection . . . . . . . . . . 2 part JST Connector

To System Host........... 10/100 Base-T TCP/IP using CAT5 Unshielded

twisted pair cable

#### Minimum Requirements

- AC2000 access control system
- AC2000 Lite access control system
- AC2000 Airport access control system • RTC Ethernet reader controller licence

#### **Ordering Information**

Product Codes	Description		
Gray version			
RDR/610/104	S610e 125khz HID Prox		
Black version			
RDR/610/114	S610e 125khz HID Prox		

#### **Related Products**



AC2000 AC2000 Lite AC2000 Airport

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