CEM SYSTEMS
From Tyco Security Products

S610e Reader

iClass SE 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 the option to enable Personnel Identification Number (PIN) for two stage authentication
- Integral reading support for 13.56 MHz iClass SE smartcard technology
- 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
- Weather-proof casing: IP66 rated
- Available in 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.

On-board Card Reading Technology

Designed for use with 13.56 MHz iClass SE smartcard technology. Two additional Wiegand interfaces are available for connecting third party readers.

Off-line Operation

A full off-line database is downloaded to the reader from the host server with subsequent changes to card data automatically sent as updates. This ensures 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 AC2000 system when reader communications are re-established.

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 displayed by the S610e can be modified via the AC2000 software.

Easy to Install

The S610e is designed to be extremely easy to install. The installer simply enters the unit IP address on the AC2000 workstation, provides it with power, connects to an Ethernet network and the reader self-configures by means of downloading data from the host.

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 (extended opening time), Turnstile, Verification, Control Post, and Equipment Enable mode.

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Specifications

Physical

Size . . . . . 142 x 115 x 44mm (5.6 x 4.5 x 1.7inch)
Weight . . . . . 370g (13oz) with connectors
Housing . . . . . Flame retardant polycarbonate containing fully encapsulated electronics
Color options . . . . . Dark and Light Gray or Black

Power Requirements
Voltage . . . . . 9 – 14Vdc
Current Consumption . . . . . 290mA (Passive), 330mA (Active)

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 LCD with backlight
Keypad . . . . . 12 character, standard layout, 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
Database Battery Backup . . . 3.0V rechargeable Lithium-Ion

Dynamic Database Sizes

In Offline Operation . . . . . 8 Byte Mode (Card number, Timezone, 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
Interfaces . . . . . Two Wiegand interfaces with a maximum cable length of 150M
Connection . . . . . 2 part JST Connector
To System Host . . . . . 10/100 Base-T TCP/IP using CAT5 Unshielded Twisted pair Cable
Connection RJ45

Regulatory

Agency Certifications . . . . . FCC Part 15
CE

Requirements

- AC2000
- AC2000 Airport
- AC2000 Lite
- RTC Ethernet Reader Controller

Ordering Information

Product Codes	Description
Gray Version	
RDR/610/608	S610e 13.56MHz HID iClass SE
Black Version	
RDR/610/618	S610e 13.56MHz HID iClass SE

Related Products

AC2000
AC2000 Airport
AC2000 Lite

Approvals

FC CE

www.cemsys.com