

S600e Reader

OVERVIEW

The S600e 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 10-100 Ethernet connection, communicates directly with the AC2000 host server removing the need for an intelligent control panel in the system design.

Using a powerful 32bit processor, the S600e gives full off-line validation and decision making at the point of entry, even when host communication is not available.

The polycarbonate or aluminium enclosure, with a 4x3 Keypad, display screen and three LED indicators, houses the reader electronics.

Designed for use with all card technologies the S600e device supports two read heads or an Entry/Exit reader configuration is supported for IN/OUT control.

The reader has 4 analogue inputs, which can be used to monitor door and alarm conditions for transmission to the host computer. Two outputs are also available to control the activation of locks or other equipment.



FEATURES

- Industry's most advanced card reader
- Universal Reader - supports all card technologies
- 100/10 Mbps Ethernet or RS485 host connection
- Communicates directly with the host server – no need for an intelligent control panel in system design
- Structured database allows storage of large amounts of cardholder records for off-line card validation
- Backlit Monochrome Graphics LCD display provides localised character sets and instantly recognisable icons
- Keypad for configuration and optional Personal Identification Number (PIN)
- 4 analogue inputs to monitor alarm conditions and 2 changeover relay outputs to activate door strike or other equipment
- Remote programming facility to download program
- Broadcast Facility to enable selective operational mode
- Biometric Template Management

PRODUCT HIGHLIGHTS

Host Communications

The S600e has an on-board 10-100 Mbps Ethernet allowing it to communicate directly with the AC2000 host server, removing the need for an intelligent control panel in the system design. Alternatively, it also provides an RS485 serial port for legacy installations.

Easy to Configure

The S600e is designed to be extremely easy to install. The installer simply enters the unit serial number on the server, provides it with power, connects to an Ethernet network and the reader self-configures and receives a 50,000 cardholder database in under 2 minutes.

Off-line Card Validation

The card database is initially 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 off-line mode. When operating in off-line mode the reader can hold in excess of 100,000 cards. An optional CompactFlash® card can be used to expand this for Biometric data such as fingerprint data.*

Remote Programming

The S600e reader may be remotely programmed from the host computer, eliminating the need to physically replace firmware, giving increased system flexibility and efficiency. Operational parameters, e.g. door open time, can also be downloaded to the reader.

Usable Head Technologies

The S600e supports all head technologies; Wiegand, Magnetic Stripe ISO2, Watermark, Barcode, Proximity, Contact Smart Card, Mifare, Mifare PS21, Legic. S600e also supports third party biometrics, Biometrics; Iriscan, Bioscrypt etc.

TECHNICAL SPECIFICATIONS

PHYSICAL

Size	165 x 150 x 58mm (6.5" x 5.9" x 2.3")
Weight	590g (20.8oz) with connectors
Housing	Flame retardant polycarbonate containing fully encapsulated electronics. Aluminium housing option available contact CEM for details.
Colour	Dark Grey
Power	
- Voltage	9 – 14Vdc
- Current Consumption	200mA (passive), 320mA (peak)
Backup Battery	Integral 6V Ni-CD providing 6 hours of Alarm monitoring operation in the event of power failure (Note: Lock operation during power failure can only be performed when using an external Door Interface Unit with battery back-up)
Environmental	
- Temperature	-20° to 50°C (-4° to 122°F)
- Humidity	Unlimited, also condensing
LED Indicators	Three high intensity LED indicators red, amber and green
LCD Indicators	32 x 122 dots Monochrome Graphics supertwist LCD with backlight and heater element
Keypad	12 character, standard layout, tactile or non-tactile response keypad.

FUNCTIONALITY

Inputs	Four analog inputs – voltage supplied
Outputs	Two relays fitted – Changeover volt free contacts
- Rating:	30Vdc @ 5A
- Duration:	programmable
	Suppression device (diode, MOV, etc.) required at load

Memory	2 MB battery backed memory
Compact Flash Database	32 MB Typical (optional)
Battery Backup Configuration	3.0V rechargeable Lithium-Ion (for Database) - Cardholders Storage of up to 197,000 cardholders at the door. - Transactions Up to 50,000 transactions in offline operation.
Standard Door Operating Modes	Operational parameters are downloaded from host computer. Some configuration setting can also be set using the keypad. Access, Turnstile, Verification, Manned Control Post, Equipment Enable

COMMUNICATION INTERFACE

To Exit Reader	RS485 multidrop cable runs using copper wire with maximum length of 1.2km without repeater
Connection To System Host	2 part JST Connector 10/100 Base-T TCP/IP using CAT5 Unshielded twisted pair cable
Connection To Biometrics	RJ45 2 x RS232/RS485*

PRODUCT CODES

RDR/661/109	S600e Reader No Head
Exit Reader RDR/371/109	S600s Exit Reader No Head

*S600 FW Reader required

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