

S600s Reader

OVERVIEW

The S600s Card Reader is designed for use as part of the AC2000 access control systems and is used to control access to restricted areas or in special applications where card activation of machinery is required.

Using a 16-bit processor, the S600s gives full off-line validation and decision making at the point of entry, even when host communications are not available. 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 up to 4,500 card transactions in battery backed memory; ensuring that card usage information is always available.

The polycarbonate or aluminium enclosure, with a display screen and three LED indicators, houses the reader electronics. A keypad version is available when PIN validation is required.

Designed for use with all card technologies the S600s device supports two read heads or an Entry/Exit reader configuration is supported for IN/OUT control.



FEATURES

- Universal Reader - supports all card technologies, i.e. Wiegand, Watermark, Magnetic Stripe, Barcode, Proximity and Smart Card
- Cardholder records for off-line card validation
- Backlit LCD display shows useful operator and engineering information
- Optional keypad for Personal Identification Number (PIN)
- 4 analogue inputs to monitor alarm conditions and 2 relay outputs to activate door strike or other equipment
- Remote programming facility to download program
- Broadcast Facility to enable selective operational mode

PRODUCT HIGHLIGHTS

Host Communications

The S600s has an RS485 serial port allowing it to communicate directly with the host AC2000 controller.

Reader Messages

The S600s 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 etc. Messages to be displayed by the S600s can be modified by the AC2000 software or translated in local languages.

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.

Remote Programming

The S600s 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 S600s supports all head technologies; Wiegand, Magnetic Stripe ISO2, Watermark, Barcode, Proximity, Contact Smart Card, Mifare, Mifare PS21, Legic, Biometrics, S600s also supports third party Biometrics, Iriscan, Bioscript 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
Battery Backup Database	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.
Configuration	Operational parameters are downloaded from host computer. Some configuration setting can also be set using the keypad.
Standard Operating Modes	Door 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	2 part JST Connector
To System Host	RS485 multidrop cable runs using copper wire with maximum length of 1.2km without repeater
- Connection	2 part JST Connector
To Biometrics	2 x RS232/RS485

PRODUCT CODES

RDR/662/109	S600s Reader No Head
Exit Reader RDR/672/109	S600s Exit Reader No Head

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