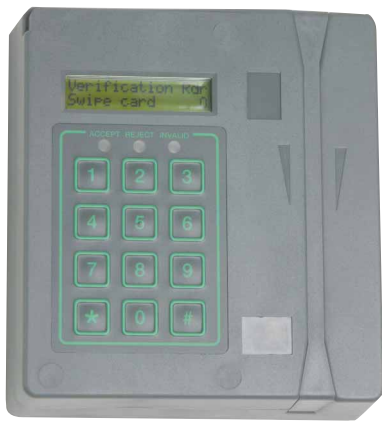


S600 Reader



FEATURES

- Part of the CEM range of intelligent card readers – an industry first!
- Universal reader - supports all card technologies, i.e. Wiegand, Watermark, Magnetic Stripe, Barcode, Proximity and Smart Card
- Structured database allows storage of large amounts of cardholder records for off-line card validation
- Backlit LCD display shows useful operator and engineering information
- Optional keypad for Personal Identification Number (PIN)
- 4 analog 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

OVERVIEW

The S600 Card Reader is designed for use as part of the AC2000 or webEntry 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 S600 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 S600 device supports two read heads or an Entry/Exit reader configuration is supported for IN/OUT control.

PRODUCT HIGHLIGHTS

Remote Programming

The S600 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.

Operational I/O Interfaces

Inputs	4 Analog - voltage supplied OR 4 optically isolated digital (6V to 12V activation voltage) 8 bit resolution
Outputs	Two relays fitted - volt free contacts Duration: programmable Suppression device (diode, MOV, etc.) required

Usable Head Technologies

Wiegand, Magnetic Stripe ISO2, Watermark, Barcode, Proximity, Smart Card

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TECHNICAL SPECIFICATIONS

Installation Requirements

12V @ 1 Amp Door Power Supply
2 pair cable for comms and power
Cables for inputs and outputs, as required
JST hand tool and adaptor

Communication Interfaces

To Host	RS485 over copper wire (balanced line drivers) Single line/Multidrop 19200 baud Software handshaking Parity checking OR RS232 using modems or line drivers
To Full Slave	RS485 multidrop over copper wire 19200 Baud Software handshaking Parity Checking 1200 metres without repeater
RS485 transmission	

Electrical

Supply Voltage	7-14V dc
Current consumption	120mA (passive) 220mA (peak)
Volt Free Outputs	Relay 1 30V dc @ 5A Relay 2 30V dc @ 5A

Mechanical

Enclosure Dimensions (H x W x D)	165 x 150 x 58mm 160 x 145 x 45mm 160 x 95 x 45mm
Polycarbonate (Plastic)	
Aluminium	
Smart Card Aluminium	
Liquid Crystal Display	Two line by 16 character supertwist LCD with backlight
Optional Keypad Version	12 character, standard layout tactile or non tactile response keypad 3 high intensity LEDs - red, green and amber
LED Indicators	Read head and electronics sealed to IP65 in polycarbonate or aluminium enclosure
Security Features	Protected by tamper sensor

Functional Specification

Processor	M37702S1BFP - 16 bit
Programming Language	Forth
Memory	RAM 128K, 512K or 1M (Specified on Order)
Battery Backup	3.5V RAM battery to retain database
In built Diagnostics	To test LEDs, readheads, database size, keypad functionality, inputs, network and supply voltage
communications	To configure mode of operation, relay (fail safe or fail secure) operation, keypad selection and site code
Local Set-Up Facility	
Standard Modes of Operation	Door Access, Turnstile, Verification, Manned Control Post

Environmental

Operational Temperature Range	-20 to +50 °C
Humidity	Unlimited, also condensing

Product Codes

RDR/361/109	S600 Reader No Head
RDR/371/109	S600 Exit Reader No Head