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Data Sheet

S610f Fingerprint Reader
Fully Integrated Biometric Solution

Key Features

- Fast card and fingerprint verification, uses 1:1 fingerprint match at the door
- Secure storage of fingerprints on the central AC2000 server and on the S610f internal database
- Fingerprint module gives a high resolution scan and detects conductivity of the living tissue beneath the skin
- Integral reading support for 13.56 MHz iClass SE smartcard technology
- Fast fingerprint enrollment and connection over 10/100 Mbps Ethernet, no need for an intelligent controller in the system design
- Structured database allows storage of large amounts of cardholder records for off-line card validation

The S610f Card and Fingerprint Reader is a fully integrated biometric and access control Reader. Used as part of the AC2000 access control system, the S610f controls access to restricted areas where an additional biometric layer of security is required.

The reader, has on-board 10/100Mbps Ethernet and communicates directly with the AC2000 host server removing the need for an intelligent control panel in the system design. Featuring a controller, advanced IP card reader and single biometric solution all in one, the S610f fingerprint reader meets requirements for three stage identity authentication (card, PIN, and biometric verification) using one device.

Using a powerful 32bit processor and a large internal database, the S610f gives full off-line card validation and biometric verification decision at the door, even when host communication is not available.

Designed for use with all card technologies the S610f device is available with integral reading support for 125 kHz HID Proximity or 13.56 MHz MiFare and iClass, DESFire and dual technology (Prox/Mifare).

The IP30 rated (indoor use) polycarbonate enclosure houses the reader electronics and comes with a large 4x3 Keypad, graphical display screen and three LED indicators.

The reader has 4 analog 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 door locks or other equipment.

Fully integrated biometrics & access control solution
The S610f features a controller, advanced IP card reader and industry leading Suprema fingerprint module all in one device.

Single process & network solution
Fingerprint enrollment is captured and stored via the AC2000 access control system at the same time as cardholder enrollment.

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Key Features Continues

- Keypad for configuration and optional Personnel Identification Number (PIN)
- 4 analog inputs to monitor alarm conditions and 2 changeover relay outputs to activate door strike or other equipment

This offers clients a single solution and eradicates the requirement to purchase a separate biometric reader and software application to link to the access control system.

Host Communications

The S610f has an on-board 10/100 Mbps Ethernet allowing for fast fingerprint enrollment over the TCP/ IP network using RC4 encryption. The S610f communicates directly with the AC2000 host server, removing the need for an intelligent control panel in the system design.

Onboard Card Reading Technologies

The S610f supports onboard card reading technologies for 125 KHz Proximity and 13.56 MHz Mifare, iClass, DESFire and dual technology (Prox/ Mifare). Other technologies can be externally supported using the two available onboard Wiegand connections.

Off-line Card Validation

The card details and biometric templates are 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. Operating in off line mode the reader can hold in excess of 123,000 fingerprint templates.

Reader Messages

The S610f has a large graphical LCD which is used to display a number of predefined messages to cardholders to inform them when using the reader e.g. Place Finger, Retry Finger, Bad Biometric, Wrong TimeZone, Lost/Stolen Card, Card About to Expire, Access Granted etc. Messages to be displayed by the S610f can be modified via the AC2000 software or translated into local languages.

Enrollment options

Contact your supplier for biometric fingerprint enrollment options.

Ordering Information

Product Code	Description
RDR/615/101	S610f 125khz HID Prox
RDR/615/608	S610f 13.56MHz HID iClass SE
RDR/615/107	S610f DESFire

Note: A third party read head must be used as an Exit reader. A full Exit reader is not supported.

Specifications

Physical	
Size	190 x 120 x 44mm
Weight	590g (13oz) with connectors
Housing	Flame retardant polycarbonate containing fully encapsulated electronics.
Color	Dark and Light Gray

Power Requirements	
Voltage	9 – 14Vdc
Current Consumption	400mA (passive), 480ma (active)

Environmental	
IP Rating	IP30
Temperature	0°C to 55°C (32°F to 131°F)
LED Indicators	Three high intensity LED indicators, Red, Amber and Green
LCD Indicators	32 x 122 dots Monochrome Graphics supertwist LCD with backlight
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) required at load
Memory	2MB battery backed memory
Compact Flash	128 MB Typical

Database	
Battery Backup	3.0V rechargeable Lithium-Ion
Database Cardholders	Storage of up to 123,000 cardholders. (Two fingerprint templates per cardholder)
Transactions	Up to 8,000 transactions in offline operation
Configuration	Operational parameters are downloaded from host computer. Some configuration setting can also be set using the keypad

Communication Interface	
To system Host	10/100 Base-T TCP/IP using CAT5 Unshielded twisted pair cable
Connection	RJ45

Requirements

- AC2000
- AC2000 Lite
- AC2000 Airport

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Related Products

- AC2000
- AC2000 Lite
- AC2000 Airport

About Johnson Controls

Johnson Controls is a global diversified technology and multi-industrial leader serving a wide range of customers in more than 150 countries. Our 120,000 employees create intelligent buildings, efficient energy solutions, integrated infrastructure and next generation transportation systems that work seamlessly together to deliver on the promise of smart cities and communities. Our commitment to sustainability dates back to our roots in 1885, with the invention of the first electric room thermostat.

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