

S9040 Controller



FEATURES

- Intelligent embedded network device for access control and alarm monitoring with the CEM AC2000 system
- Supports four multidrop networks of card readers (64 total) using CAT 5 cabling
- Full mains battery backup available in case of power failure
- 32 MB compact flash for database with expansion available
- Storage capacity for up to 150,000 card records
- Full TCP/IP based diagnostics/monitoring available via web browser or Telnet
- Database is retained even in the event of battery backup failure

OVERVIEW

The S9040 Controller provides full Ethernet connectivity, allowing users to remotely perform database administration and monitor alarms. Part of the family of S90X0 Controllers, the S9040 is a central component of the fully expandable AC2000 integrated security management system.

A major advantage with the S9040 Controller is the availability of full TCP/IP connectivity. The administrator can use both Telnet and web-based user interfaces to remotely monitor the controller at any time. Each card reader is loaded with its own database from the S9040 Controller providing an extra level of resilience for off-line use.

The S9040 Controller supports four multidrop networks of card readers with up to 16 readers off each port (64 total) using CAT 5 cabling. The readers communicate with the controller using RS485 serial communications.

PRODUCT HIGHLIGHTS

Onboard Database

The S9040 Controller supports its own database of up to 150,000 card records, depending on the record format and the memory fitted. The records can include card numbers, cardholder name, access level and time zone details.

The database allows the controller to validate card requests from readers. In the event of communications failure, card transactions and alarms are stored in memory, and will be uploaded to the host server when communications are restored.

Rack Mounted Enclosure

The S9040 Controller comes mounted in a sturdy 19-inch rack-mounted enclosure providing easy integration into existing server locations.

Reader Networks

The reader networks connect to four serial ports on the S9040 Controller, using CAT 5 cabling. The readers communicate with the S9040 Controller using RS485 serial communications.

Power Failure Capability

The S9040 Controller has its own internal UPS, giving a minimum of four hours usage in the event of mains power failure, thus keeping potential downtime to a minimum.

System Expansion

The S9040 Controller forms part of a fully scaleable access control solution for medium and large sites. It can be used to monitor access control on a small system, or it can form part of a large-scale access control system.

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TECHNICAL SPECIFICATIONS

Enclosure Dimensions (H x W x D)	279 x 483 x 51mm (11 x 19 x 2in)
LED Indicators	Status LEDs for network, battery/power supply status and disk access Ethernet LED for link OK, Ethernet running OK, Ethernet transmit and Ethernet receive RJ45 port LEDs for data active, serial type and data transmit/receive
LCD Display	4 line x 16 character display with backlight for operator information on device address, day/time, system and comms status
Mains Power Supply	50 Watt Power Supply 100-240V AC 2A 50/60Hz
Battery Backup Supply	Internal Nickel Metal Hydride batteries giving a minimum of four hours backup time. Full online battery management and monitoring

Functional Specification

Reader Capacity	4 optically isolated RS485 multidrop reader networks controlling up to 16 master readers each
Database	Compact Flash Disk, 32MB standard, with expansion available Storage of approximately 150,000 cards per controller, with four access levels and time zone definition pairs per cardholder record
Configuration/Monitoring	Custom-made Web Browser GUI available for, alarm and transaction monitoring Telnet server for remote diagnostics

Communication Interfaces

To Card Readers	Connected to S9040 controller using RJ45 connectors
To System Host	Ethernet
Others	Local RS232 serial port for controller diagnostics/configuration

Product Code

DAC/090/000	S9040 Controller
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