CEM SYSTEMS
From Tyco Security Products

S9032 Lift Controller
Floor access control for up to two elevators

Features that make a difference:

- Intelligent embedded network device for control of lift cabs with the CEM AC2000 system

- Utilises Lift Interface Units for physical control of floor selection panels and buttons

- Supports two lift cabs with up to 128 floors per lift

- 128MB compact flash for database with expansion available

- Storage capacity for up to 250,000 card records

- Full TCP/IP based diagnostics/monitoring available via web browser or Telnet

- Cabinet Tamper, AC Power Fail, Low battery (when fitted)

The S9032 Lift Controller is designed to be an integral component of the AC2000 integrated security management system. It is designed to offer the ability to control the floor access of either one or two lift cabs, each of which can support access to up to 128 floors.

Using the S9032 Lift Controller and constituent devices the AC2000 system can provide access control to specific lift floors within a building. From a cardholders perspective it is as simple as them entering a lift cab, presenting their card to a CEM access control reader, which in conjunction with the S9032 Lift Controller carries out access checks on the AC2000 database to determine which floors the cardholder is allowed access to. This information is then presented to the lift via a Lift Control Interface series of relays, used to enable the floor selection buttons in the cab.

The cardholder can then select an enabled floor and the lift cab will proceed as normal. Depending on the lift specification the S9032 Lift Controller can also record which floor selection the cardholder requested, allowing reports to be generated at a later date.

The S9032 Lift Controller provides full 10/100 Base-T Ethernet connectivity, allowing the administrators to use both Telnet and web-based user interfaces to remotely monitor the controller at any time.

Onboard Database
The S9032 Lift Controller supports its own database of up to 200,000 card records, depending on the record format and the memory fitted. The records include card numbers, access level and time zone details. The database allows the controller to validate card requests from the lift cab readers even when communications with the AC2000 system have been lost. Card transactions, floor selections and alarms are stored until communications are restored at which point they are uploaded to AC2000 ensuring no access control event is ever lost.

Offline operation
Lift Control Interface
Connection between the S9032 Lift Controller and a lift is accomplished via a Lift Control Interface (LCI) containing one or more sets of input/output modules. Various LCI options are available to support up to 128 floors. Output modules are used to signal to the lift which floor selection buttons to enable. Each output module provides 16 dry contacts, with one being used per available lift floor. Input modules provide 16 analog inputs. Inputs are included to provide a mechanism for the lift to signal back when floor selection has been made and which floor was selected. Again one input is used per monitored lift floor.

It is recommended to contact a CEM sales representative to discuss your specific requirements before ordering any Lift Control Modules.

The interface between the system and the lift hardware depends considerably upon the lift manufacturer, model, and the specific requirements on site. It is important that the integrator communicates closely with CEM Systems prior to placing an order to determine the precise installation requirements, which may vary greatly between installations.

Specifications

Physical

Size . . . . 42 x 483 x 233mm (1U x 19″ x 9.2′)
Weight 2.6Kg
Housing . . . . 19″ rackmounted steel enclosure
Colour . . . . Beige

Power

Voltage . . . . Mains power adapter 100-240Vac (supplied). Output voltage 12Vdc @ 2.0A
Current Consumption 300mA
Backup Battery . . . . Internal Lithium Ion battery giving a minimum of three hours backup time. Power fail reported to system internally.

Environmental

Temperature . . . . -10º to 50ºC (14º to 122ºF)
Humidity . . . . 95% non condensing
LED Indicators . . . . Online/Offline, Ethernet connection, Activity/ Status, Power and Heartbeat

Functionality

Inputs . . . . Dedicated Tamper Input
Dedicated Power Fail Input

Reader capacity . . . . Two Optically isolated RS485 multidropped reader networks, each supporting up to 16 doors (32 readers IN/OUT per port)
Memory . . . . 10MB of RAM
28kB Boot Loader ROM
128MB Compact Flash Disk
Database Cardholders . . . . . . Storage of up to 200,000 cards per controller, with four access levels and time zone definition pairs per cardholder record.
Transactions . . . . Up to 200,000 transactions in offline operation, depending on amount of cardholders stored.
Configuration . . . . Custom-made Web Browser GUI available for displaying controller status and configuration as well as alarm and transaction displaying. A Telnet client can also be used for remote diagnostics.

Communication Interface

To Card Reader Connection . RS485 multidrop cable runs using copper wire with maximum length of 1.2km without repeater RJ45
To System Connection . . . . . Host Ethernet 10/100 BaseTHost Connection RJ45

Requirements

- AC2000
- AC2000 Airport
- AC2000 Lite Server bundle*

* Not supported in AC2000 Lite Software-only Virtual Kit

Ordering Information

Product Code	Description
DAC/390/L32	S9032 Lift Controller

Additional Equipment Required (One of the following must be purchased for use with S9032 Lift Controller)

Product Code	Description
IOC/000/008	Lift Control Interface Type 2 (up to 16 floors)
IOC/000/009	Lift Control Interface Type 3 (up to 32 floors)

For more than 32 floors to be controlled contact CEM Systems for details. Card reading device required for each lift cab.

Related Products

AC2000
AC2000 Lite
AC2000 Airport