APC–300
EAC

Access Point Controller
Elevator Access Control

OVERVIEW

The open systems facility automation market needs economical access control that provides a high level of interoperability with other multivendor building automation DDC controllers and subsystems, such as HVAC and lighting.

The Circon APC–300–EAC Access Point Controller for Elevator Access Control comes complete with all the features you expect for access control combined with a flexible, low–cost hardware platform to control multiple floors from one elevator cab.

ACCESS CONTROL

The APC–300–EAC interfaces with a standard Wiegand proximity identification device, up to 128 bits with or without PIN verification.

The APC–300–EAC makes intelligent decisions, independently of the host PC, for up to 10,000 access users. Access user information is stored in nonvolatile memory; batteries are not used. Because all decisions are made by the APC–300–EAC, access is granted or denied instantaneously to restricted floors even during the busiest times of the day.

The APC–300–EAC provides complete access control, in one elevator cab, for 32 floors. A dry contact interface to the elevator control system allows call buttons to be enabled and disabled. Optional call button feedback allows the APC–300–EAC to detect and log the selected floor. And all of this is configurable with industry–standard LNS®–based software plug–ins.

DESIGNED FOR INTEROPERABILITY

To meet and exceed the market's need for a high level of LonWorks interoperability, the APC–300–EAC includes a powerful actions and tests capability coupled with freely assignable and type changeable input and output network variables, all configurable with LNS plug–ins.

INTRUSION SYSTEMS INTEGRATION

Otherwise unused APC–300–EAC input points can be used to integrate with a variety of intrusion detection alarm systems and output points with alarm annunciation devices.

ORDERING INFORMATION

Part number 10–0430–EAC

ADVANTAGES

- **Integrates seamlessly into multivendor interoperable LonWorks® networks**
- **Integrates with intrusion detection alarm systems**
- **Supports 32 floors and one elevator cab**
- **Includes an industry–standard Wiegand proximity reader/keypad interface**
- **Supports multiple card formats up to 128 bits**
- **Stores 10,000 access users, 64 access groups and 64 schedules in powerfail protected database**
- **Includes a 1,500–entry event and alarm log**
- **Supports configurable events and alarms for logging, monitoring and alarm notification; sent to Access Integrator for annunciation and archiving**
- **Includes a powerfail protected realtime clock**
- **Includes supervised or nonsupervised–capable enclosure tamper input and form C relay outputs**
- **LonMark certified**

LONMARK 3.4

LONMARK PARTNER

ECHELON OPEN SYSTEMS ALLIANCE

CIRCON

APC–300
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SPECIFICATIONS

I/O CAPABILITY

1 Industry standard Wiegand proximity reader/keypad interface with data0, data1, beep, LED, 12 VDC and ground.

6 Digital inputs	Digital dry contact
1 Tamper input	Digital dry contact, supervised or nonsupervised; can be used as a digital input
4 Digital outputs	Dry contact form C relay: 2.0 A maximum at 24 VAC or 24 VDC. Termination for normally open, normally closed and common; individual amber LED illuminates when relay energized.

APPLICATION SUPPORT

Application processor	ARM7 microprocessor, 70 MHz, with 32K RAM
Memory	512K nonvolatile memory, 256K RAM with supercap power fail protection

COMMUNICATIONS

Transceiver	Echelon Free Topology Transceiver (FTT 10A) at 78 kbps
Wire type	AWG22 to AWG16 stranded. Use only twisted pair wiring and copper conductors for network.
Neuron®	3150, 10 MHz. Used for communications only.
Network jack	Audio jack provides quick network access

POWER SUPPLY

Controller	2.0 A, 24 VAC 50 60 Hz or 24 VDC
External loads	Aux. 12 VDC output terminal provides 1250 mA maximum
Fuse	2.5 A slow blow (Bussman GMD 2.5A or Littlefuse 23902.5A)
Power fail protection	Supercap retains data in RAM and clock for up to 10 days
Rectifier	Half wave

MECHANICAL

Operating temperature	32°F to 122°F (0°C to 50°C)
Relative humidity	5% to 95% RH (non condensing)
Weight	1 lb. 1 oz. (485 grams)
Dimensions	1.9" x 5" x 9" (48 mm x 127 mm x 229 mm)
Enclosure material	PVC, inflammablility class V0 (UL94) and metal
Mounting	DIN rail

AGENCY LISTINGS AND REGULATORY COMPLIANCE

Class II device (when powered by class II supply)
CSA 22.2 #205–M1983, #950–M89
UL 916 certification for Energy Management Equipment
FCC Part 15, Class A of the FCC rules for Radio Frequency Devices
LonMark 3.4, LonMark device class: 5070 Elevator Access Controller

NRTL/C
LR102822

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