

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



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 non-supervised; 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, inflammability 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

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