ALLPLEX track Coordinator

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Invented for life

- Device controller for up to 15 receivers
- Powered using Power over Ethernet (PoE)
- Wired TCP/IP to the host central console
- Wired (RS-485) or wireless communication to receiver
- Selectable frequencies of 303.825 / 304 / 433.42 MHz
- Remote firmware upgradable via wired TCP/IP
- Built-in 2 inputs and 2 relay outputs

The ALLPLEX track coordinator is a device controller for up to 15 ALLPLEX track receivers. Its primary function is to monitor the receivers, and report conditions and events to the central console over wired Ethernet (TCP/IP). The coordinator can be powered using Power over Ethernet (PoE).

Functions

Function during alarm

- When a receiver detects an alarm, it goes into an Off-Normal state. To quickly locate any devices which might be in the Off-Normal State, the coordinator issues global commands that are interpreted simultaneously by all of its devices approximately ten times per second.
- The coordinator sends commands to specific devices to determine the nature of the Off-Normal condition. During an alarm or test, the coordinator sends commands to obtain the transmitter identification number, transmitter battery condition, and received signal strength.
- The alarm information is sent by the receiver to the coordinator either by wired RS-485 or through wireless radio frequency.
- The alarm information is then relayed by the coordinator to the central console by wired Ethernet (TCP/IP), where it graphically shows the identity and location of the subscriber (user) sending the alarm.

Configuration

The coordinator identifies each receiver by its address. The address is set during system installation using a DIP switch on the receiver circuit board. Coordinators communicate on the data bus with individual devices by issuing commands, which contain the receiver's address.

Setup and testing

Upon setting up each coordinator and connected devices, they can be tested remotely from the central console. Also, each coordinator reports any problems, such as low battery, immediately upon detecting them.

Alarm input and relay output control

The coordinator has two analog inputs and two relay outputs. The analog inputs are monitored and support 4 state supervised modes. The coordinator can detect short/open wiring conditions, and initiate an alarm if the appropriate input devices are connected. Each relay output provisions for normally open (NO), normally closed (NC) and common (C) terminals.

Certifications and approvals

The product is classified in accordance with the following standards:

- FCC part 15.231
- ETSI EN300 (433.42 Mhz)
- RCM

Installation/configuration notes

Installation

The coordinator is for indoor and outdoor use. The coordinator mounts in one of two different sized enclosures. Connect the receivers to the coordinator using one 3-wire multiplex buses: two wires for data (A and B) and one wire for GND. Each bus supports 1 built-in receiver of the coordinator and up to 15 external receivers. A Security Escort System supports up to 1024 coordinators and a total of 16384 devices.

Mounting Considerations

You will need a Security Hex Driver to mount the receiver.

- **Indoor Enclosure:** Mount on inside walls.
- **Outdoor Enclosure:** Mount on the sides of buildings and on light posts.

Compatibility Information

Central Console Software	SE3000 Series
AT receiver	ATX-RCV-MT01
AT transmitter	ATX-TRM-304T01, ATX-TRM-433T01
Transmitter	SE2 Series, SE3 Series, SE3401 and SE88 Series

Parts included

Quantity	Component
1	ALLPLEX track Coordinator
1	ALLPLEX track Coordinator & Receiver Installation Manual
4	2.2 kΩ Axial Lead Resistors

Technical specifications

Transmission

Frequency	303.825 / 304 (default) / 433.42 MHz selectable by Dip Switch
Trouble Output	Signal sent through the central console
Antenna Type	Internal
Sensitivity Adjustments	-100 dB minimum

Electrical

Power Consumption	200mA @ +12VDC (max)
Operating Input Voltage	10.8 – 13.2V
Primary Power Source	Power over Ethernet (PoE) (PoE standard: IEEE 802.3af-2003 and IEEE 802.3at-2009 Type 1)
Secondary Power Source	12V DC in

Environmental

Operating Temperature	-30°C to +65°C (-22°F to +149°F)

Hardware

Input	2 analog inputs (4 state supervised monitoring)
Output	2 relay outputs (Relay dry contact, 1A @ 30V DC)
Communication Interface	Ethernet 10/100 BaseT (central console) RS-485 / Wireless radio frequency (receivers)
Housing Tamper	Normally closed (NC)

Reliability

Mean Time Between Failures (MTBF)	10 years

Ordering information

ALLPLEX track Coordinator

Controls ALLPLEX track receivers. Relays alarm and test signals from the receivers to the central console. Selectable frequencies of 303.825 / 304 / 433.42 MHz by dip switch.
Order number **ATX-COR-MT01**

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