



EA102A-304 Receiver



- ▶ **Buddy Check self-testing**
- ▶ **Indoor enclosure available**
- ▶ **Outdoor enclosure available**
- ▶ **Tamper switch**

Use the EA102A-304 Receiver throughout a protected area, including building interiors. It relays transmitter alarm and test information to the transponder.

The EA102A-304 Receiver contains a radio receiver to detect the transmissions from transmitters and a microcomputer to decode and interpret test and alarm messages. The microcomputer monitors tampering and reports problems to the transponder.

System Overview

During an alarm, the EA102A-304 Receiver detects an alarm signal from a transmitter (signal strength measured in 255 steps), and sends the signal to the transponder. The transponder forwards this information from all the receivers that detected the signal to the central console software. The central console software shows the location of the transmission on the alarm map.

Functions

Indoor Enclosure

EA102A-304 Receivers with AE100 Indoor Enclosures have one red and one green light emitting diode (LED). Green light indicates a successful transmitter test. Red light indicates alarms or specific system tests are in progress. The AE100 Indoor Enclosures are vandal resistant and sound locally during alarms.

Outdoor Enclosure

EA102A-304 Receivers with AE101 Outdoor Enclosures indicate a successful transmitter test through the strobe lights connected to the alert unit's flash. The AE101 Outdoor Enclosures are weather-resistant.

Buddy Check

Each EA102A-304 Receiver contains a transmitter functionally similar to the hand-held transmitters. The central console software can command this transmitter to send a test message to other nearby receivers.

The central console software issues this command, called buddy check, at regular intervals to verify that the receivers function correctly. The central console software compares the results of the buddy check with previous buddy checks, and stores information about sensitivity changes in the system database.

Sounder

Each receiver contains an internal self-contained 85 dB sounder. The receiver closest to the alarm sounds.

Environmental

Operating Temperature Range: -40°C to +65°C
(-40°F to +149°F)

Certifications and Approvals

Region	Certification
Canada	IC

Installation/Configuration Notes

Installation Information

When estimating the number of receivers for an installation, apply the following criteria:

- **Indoor Receivers:** Assume a spacing of no more than 24 m (80 ft) between receivers for standard construction. In multi-floor applications, the receivers on each floor must be placed directly above the receivers on the floor below them.
- **Outdoor Receivers:** Assume a receiver spacing of no more than 91 m (300 ft) between receivers.

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

Alert Units:	EA120B
Central Console Software:	SE2000 Series
Transmitters:	SE2 Series, SE3 Series, SE3401, and SE88 Series
Transponder:	EA500B

Technical Specifications

Transmission

Frequency:	304 MHz
Trouble Output:	Signal sent through the central console
Antenna Type	Internal
Sensitivity Adjustments	-100 dB minimum
Tamper	Normally-closed (NC)

Electrical

Battery Backup:	Provided by EA500B Transponder
Primary Power Source:	12 VDC, 30 mA typical, 60 mA with horn sounding

Ordering Information

EA102A-304 Receiver	EA102A-304
Detects the radio transmissions from transmitters. Receives alarm information and relays it to the transponder. Indoor or outdoor enclosures available.	

Accessories

AE100 Indoor Enclosure	AE100
The AE100 Indoor Enclosure is for indoor installations and is vandal resistant.	

AE101 Outdoor Enclosure	AE101
The AE101 Outdoor Enclosure is for outdoor installations and is weather resistant.	

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