

FA421 Receiver, Intended Use

The FA series Transmitters and FA421 Single channel receiver operates as an asynchronous, one-way, frequency hopping signaling and control link. The FA series transmitters monitor sensor devices and send sensor alarm status, case tamper status, and battery level, transmitting this information together with point identification, to the FA421 receiver. In addition to redundant transmissions upon the change of state of the monitored inputs, the transmitter sends supervisory packets to verify battery level and link function on a programmable periodic basis.

In operation, the receiver searches the band or frequencies from 906 to 920Mhz for transmissions with the proper characteristics. Upon recognizing a valid preamble, the receiver remains on the channel to complete reception of the digital packet. At the completion of the packet and error check, the receiver activates one or more of the four switch outputs depending on the programmed configuration. The receiver also sends the data packet to the data port and then resumes the search process.

Description of Photographs

The following photographs have been taken of the receiver board assembly and of the final assembly:

- A. Top view of board with shield removed.
- B. Top view of board with shield in place.
- C. Back view of board.
- D. Outside view of completed product.