

## MODEL 5052RD-K-H ALERT2 Receiver/Decoder

### General Description

The Model 5052RD-K-H Receiver/Decoder receives ALERT2 HDR radio data transmissions from remote sites and provides a serial and TCP/IP data output for the base station computer. The Receiver and Decoder are combined in a single desktop enclosure. Rack mount brackets are included.

The Receiver/Decoder enclosure should be located near the antenna tower to reduce the length of the RF transmission line and the associated RF signal loss. It is recommended that a lightning arrestor with ground lug (optional) be placed between the ALERT2 receiver back panel BNC connector and the antenna to protect against lightning damage.

Two LEDs on the front panel show when radio signals are received (BIT SYNC) and decoded (FRAME SYNC).

ALERT2 decoder data output is through the back panel RJ45 network or serial connector. The ALERT2 decoder supports multiple server and client TCP/IP network connections from base station computers. It supports the ALERT2 Decoder ASCII and Binary formats.

The Receiver and Decoder are powered by a fused 12Vdc power input from a 5030-PS power supply (optional) or 5081-18 12 Vdc 18 AmpHr battery (optional) with 5030-8 battery charger (optional). It is recommended that the power supply be connected to a UPS (Uninterruptible Power Supply) to prevent loss of data during power outages. A power LED on the front panel is on when power is connected. The power input fuse is mounted on the back panel.

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### Specifications

Enclosure: .....Desktop  
 ..... 19 in. rack mount brackets included  
 Radio:.....ALERT2 RX Ritron DTX-145, VHF  
 OP1.....ALERT1 RX Ritron DTX-145, VHF  
 OP2.....ALERT2 TX Maxon SD-125V, VHF  
 Power Required:..... 12 Vdc  
 Power Connector:..... 3 pin MS male  
 Fuse: ..... 5 Amps  
 Antenna Connector:.....ALERT2 RX BNC male  
 OP1.....ALERT1 RX BNC male  
 OP2.....ALERT2 TX BNC male  
 .....ALERT2 GPS SMA female  
 Console Connector:..... DB9 male  
 Data Connector: .....ALERT2 RJ45 female, DB9 female  
 OP1.....ALERT1 RJ45 female, DB9 female  
 Data Output:.....ALERT2 IND Decoder Format  
 ..... ASCII (port 4200) or Binary (port 4201)  
 OP1.....ALERT1 ASCII and Binary (port 2101)  
 Data Input OP2:.....ALERT2 IND Encoder Format (port 4202)  
 Operating temperature: ...-40 to 60 °C  
 Size: ..... 17 in. x 13 in. x 3.5 in.  
 Weight: ..... 13 lbs.



Model 5052RD-K-H ALERT2 Receiver/Decoder with Model 5052RD-OP1 ALERT1 Receiver/Decoder Option

## MODEL 5052RD-OP1 ALERT1 Receiver/Decoder Option

### General Description

The Model 5052RD-OP1 ALERT1 Receiver/Decoder Option receives ALERT1 radio data transmissions from remote sites and provides a TCP/IP data output to the base station computer. The ALERT1 Receiver and Decoder are mounted inside the Model 5052-RD-K ALERT2 desktop enclosure.

The ALERT1 DATA LED on the front panel shows when ALERT1 radio signals are received. A front panel toggle switch controls an internal speaker connected to the ALERT1 radio.

ALERT1 decoder data output is through the back panel RJ45 network or serial connector. The ALERT1 decoder supports multiple server or a single client TCP/IP network connections from base station computers. It supports the ALERT1 ASCII and Binary formats.

## MODEL 5052RD-OP2 ALERT2 Transmit Option

### General Description

Transmit ALERT2 radio data packets to remote sites using an additional transmit radio with its own antenna connector. The ALERT2 Encoder and transmit radio are mounted inside the 5052RD-K-H Receiver/Decoder desktop enclosure. Includes GPS antenna and cable.

### Ordering Information

5052RD-K-H ..... ALERT2 HDR Receiver/Decoder  
 5052RD-OP1 ..... ALERT1 Receiver/Decoder Option  
 5052RD-OP2 ..... ALERT2 Transmit Option  
 5031-18 ..... 12 Vdc 18 AmpHr Gel Cell Battery  
 5030-8 ..... Battery Charger  
 5030-PS ..... 12 Vdc Power Supply with 3-pin MS connector  
 5071C-NET-5E ..... CAT 5e network cable for ALERT2/1 data, 7 ft.  
 5071C-TM..... DB9M-DB9F Serial cable for ALERT2/1 data, 6 ft.