

MODEL 50386R/D-RP Receiver/Decoder and Repeater

General Description

The HydroLynx Model 50386R/D-RP Receiver/Decoder and Repeater combines the features of an ALERT Receiver/Decoder with a repeater. The Alert Receiver/Decoder receives ALERT data transmissions from the remote site and provides an RS232 output to the central site computer. The ALERT repeater re-transmits received ALERT reports and can also transmit control commands from the central site computer. The 50386 multiple communication pathway feature provides the ability to process and re-format data. This enables data sharing across various data collection systems.

As an intelligent decoder, the 50386D-RP validates the data, in the formats that are enabled, before processing the data for output or repeating. These formats include standard ALERT, Enhanced IFLWS, ASCII text, ScadaLynx and Modbus. As part of the processing, the 50386D-RP has a programmable list of ID numbers to compare received reports ID numbers and decide whether to output the data.

The two way communication feature of the 50386D-RP Repeater allows it to send control commands and to poll remote stations over SCADA networks.

The Receiver/Decoder and Repeater are housed in separate enclosures which allows the Receiver/Repeater to be located near the antenna tower and the Decoder to be placed at the central site location. Locating the Receiver/Repeater at the Antenna tower reduces the length of the RF transmission line and the associated RF signal loss, and eliminates the potential damage due to lightning entering the central site on the RF transmission line.

HydroLynx recommends the use of a high gain omni antenna at the central site receive tower to increase radio path fade margins. Antenna and RF transmission line cables are ordered separately (refer to the Antenna and Antenna Cable Sections).

Specifications

Model 50386R-RP Receiver/Repeater

Enclosure:..... Desktop
 Radio specifications:..... See RTR specifications
 Power Required: 12 Vdc
 Standby Current:..... 65 mA
 Transmit Current Drain: 2 Amps
 Battery:..... 12 Vdc, 12 AH
 Charger:..... 120 Vac, 0.2 A
 Antenna Input Connector(s):... N-type female lightning arrester
 Audio output:..... 800 mVpp, Typical
 Operating temperature: -40 to 60 °C
 Humidity: 0 to 95 %, non-condensing
 Size:..... 7.25 in. x 2.75 in. x 9 in.
 Weight: 3 lbs.

Model 50386D-RP Decoder

Enclosure: Desktop
 Decoder processor: See 50386 specifications
 Power required: 10 to 16 Vdc
 Current drain:..... < 150 mA
 Input: 6 pin MS male Rotated
 Output:..... Two, Four or Six DB25 RS232 female
 Operating temperature:..... -40 to 85 °C
 Humidity:..... 0 to 95 %, non-condensing
 Size:..... 7.25 in. x 2.75 in. x 9 in.
 Weight: 3 lbs.

Ordering Information

50386R/D-RP..... Receiver/Decoder and Repeater in two desktops with AC Battery charger for Receiver/Repeater, AC/DC Power Supply for Decoder and 25 ft. Interconnecting Cable
 50386-R/D-RP-2 Same as 50386R/D-RP with 2 RTRs and 2 Antenna Connectors

Specify receive and transmit radio frequencies.

Options

5073TBX 50386 Toolbox Software



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