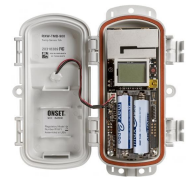




HOBOnet Wireless Repeater (Battery & Solar Powered)

Product Images



Short Description

HOBOnet Repeater for HOBOnet Wireless Networks. Use where there is an obstruction between wireless sensors & RX3000, or for extending transmission range.

Description

Overview

The HOBOnet Wireless Repeater is designed to work with the HOBOnet Wireless Sensor Network. The repeater is ideal when there is an obstruction between wireless sensors and the RX3000 station or for

extending the transmission range of wireless sensors in the network.

Highlighted Features

- 900 MHz wireless mesh self-healing technology
- 450 to 600 meter (1,500 to 2,000 feet) wireless range and up to five hops
- Up to 50 wireless sensors per RX3000
- Simple button-push to join the HOBOnet wireless network
- Onboard memory to ensure no data loss
- Powered by rechargeable AA batteries and built-in solar panel.

Note: A complete [HOBOnet](#) system requires at least one [HOBOnet RX3000](#) Remote Monitoring Station, a [HOBOnet Wireless Manager](#), and a HOBOnet Wireless Sensor. [HOBOnet Wireless Repeaters](#) can be added to extend the range.

For full specifications for this product, please see the User Manual found under the Resources tab below.

Additional Information

| | | | |
|------------------------|---|---|--|
| Country of Manufacture | United States | | |
| Brand | Onset HOBO | | |
| Typical applications | Environmental (Outdoor), Field Research, Weather Monitoring | | |
| Explanation | Operating Temperature Range | -25° to 60°C (-13° to 140°F) with rechargeable batteries -40 to 70°C (-40 to 158°F) with lithium batteries | |
| | Radio Power | 12.6 mW (+11 dBm) non-adjustable | |
| | Transmission Range | Reliable connection to 457.2 m (1,500 ft) line of sight at 1.8 m (6 ft) high Reliable connection to 609.6 m (2,000 ft) line of sight at 3 m (10 ft) high | |
| | Wireless Data Standard | IEEE 802.15.4 | |
| | Radio Operating Frequencies | RXMOD-RXW-900: 904–924 MHz RXMOD-RXW-868: 866.5 MHz RXMOD-RXW-922: 916–924 MHz | |
| | Modulation Employed | OQPSK (Offset Quadrature Phase Shift Keying) | |
| | Data Rate | Up to 250 kbps, non-adjustable | |
| | Duty Cycle | <1% | |
| | Maximum Number of Motes | 50 motes per one RX Wireless Sensor Network | |
| | Power Source | Powered by the RX3000 station | |
| | Dimensions | Mote: 16.2 x 8.59 x 4.14 cm (6.38 x 3.38 x 1.63 inches) Cable length: 2 m (6.56 ft) | |
| | Weight | Mote: 159 g (5.62 oz) | |
| | Materials | Mote: PCPBT, silicone rubber seal | |
| | Environmental Rating | Mote: IP67, NEMA 6 | |
| | Compliance Marks | <div><div><div></div></div><div><div></div></div><div><div></div></div></div> <div>RXMOD-RXW-900 RXMOD-RXW-868 RXMOD-RXW-922</div> | |
| Ideal For | Professional, Agronomy | | |