



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

- 868 MHz wireless mesh self-healing technology - UK & Europe Version (contact us if you will be deploying in another region)
- 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 HOBOnet	
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	 RXMOD-RXW-900  RXMOD-RXW-868  RXMOD-RXW-922	
Ideal For	Professional, Agronomy	