



HOBO[®] RXW-RPTR-B-xxx

HOBOnet Repeater (incl. lithium batteries)

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 RX Stations or for extending the transmission range of wireless sensors in the network.






Key Advantages:

- 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 RX Station
- Simple button-push to join the HOBOnet wireless network
- Onboard memory to ensure no data loss
- Powered by 2 user-replaceable lithium AA batteries

HOBO RXW-RPTR-B-xxx Specifications

Operating Temperature Range	-40 to 70°C (-40 to 158°F)
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	RXW-RPTR-B-900: 904–924 MHz RXW-RPTR-B-868: 866.5 MHz RXW-RPTR-B-922: 916–924 MHz RXW-RPTR-B-921: 921 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 HOBOnet Wireless Sensor Network
Battery Type	Two AA 1.5 V lithium batteries
Battery Life	1 year, typical use
Dimensions	16.2 x 8.59 x 4.14 cm (6.38 x 3.38 x 1.63 inches)
Weight	219 g (7.74 oz)
Materials	PCPBT, silicone rubber seal
Environmental Rating	IP67, NEMA 6

Compliance Marks

	RXW-RPTR-B-900
	RXW-RPTR-B-868
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