



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

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|-----------------------------|---|
| 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 |
| 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 |

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| Compliance Marks |  RXW-RPTR-B-900 |
| |  RXW-RPTR-B-868 |
| |  RXW-RPTR-B-922 |