



## RXMOD-RXW-xxx

### HOBOnet Manager

The HOBOnet Wireless Manager module is installed in an RX3000 station. Data is transmitted wirelessly from sensors across the network to the RX3000 station and then uploaded to HOBOLink, Onset's innovative cloud-based software platform.



#### 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 RX3000
- Plugs into RX3000 Flex Port

### Wireless Mote

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

## Contact Us

Sales (8am to 5pm ET, Monday through Friday)

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