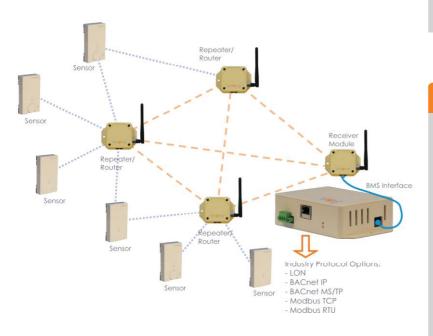
Product Data Sheet BMS Protocol Interface - SWRF



Spinwave Systems' BMS interface easily connects Spinwave's wireless sensors to open-protocol building automation systems.

The wireless BMS interface consists of an RF receiver module and an open protocol interface. Up to 31 separate wireless devices (sensors and/or repeaters) are supported per BMS interface.

Sensor data points are mapped to BMS network variables and are presented to the Building Management System as native BACnet objects, LON SNVTs or Modbus registers.



Real-World Ready

Ultra-high reliability means that the wireless sensor network (based on IEEE 802.15.4) outsmarts changing RF interferences with self-adapting frequency agility (patent pending).

Sophisticated sensor power management results in long battery life; 3 to 8 years, depending on transmission intervals.

Easy to engineer and interface.

Flexibility Included

Multiple interface options - easily integrates with virtually any building automation system.

Self-forming - deployment is quick and simple as nodes automatically join network when powered up

Self-healing - reliability is ensured as the network automatically reconfigures itself if a communication path is obstructed, using alternate communication paths for optimal network availability.

Flexible mounting options to accommodate a broad range of installation requirements.

Order Information

SWRF-LON: RF Receiver Module and LON Interface.

SWRF-BACNET-MSTP: RF Receiver Module and BACnet MS/TP Interface.

SWRF-BACNET-IP: RF Receiver Module and BACnet IP Interface.

SWRF-MODBUS-TCP: RF Receiver Module and Modbus TCP Interface.

SWRF-MODBUS-RTU: RF Receiver Module and Modbus RTU Interface.

Note: All part numbers include 3ft receiver cable



Specifications

Enclosure

- RF Receiver: ABS plastic, UL94-5VA, color: hone
- BMS Interface: ABS plastic, UL94V-0, color: bone

Installation

Surface mount

Operating Conditions

- 32°F to 104°F (0°C to 40°C)
- 5% to 95% R.H. non-condensing

Storage Conditions

- -40°F to 176°F (-20°C to 80°C)
- 5% to 95% R.H. non-condensing

Radio Characteristics

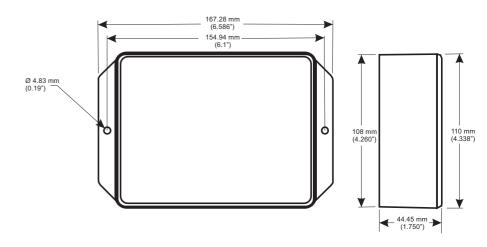
- · 2.4GHz, IEEE 802.15.4
- Receiver Sensitivity
 -95dBm
- Receiver Adjacent Channel Rejection +/-5MHz, 46/39 dB
- Receiver Alternate Channel Rejection +/-10MHz, 58/55 dB
- Open field Range
 - Receiver/Router: up to 3500 ft. (1 km) Receiver/Sensor: up to 700 ft. (230 m)
- In-building Range per hop (Sensor to Repeater or Repeater to Repeater)
 120 ft. (40 m) in typical commercial office building; range heavily dependent on building material and layout

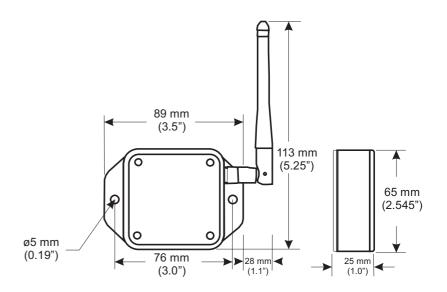
Power

24VAC (+/- 20%), 30VA

Agency Approvals

- FCC part 15
- · CE





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