Lumity™ Wireless LR Sensor

Wireless sensors using Bluetooth Low Energy technology for temperature applications.

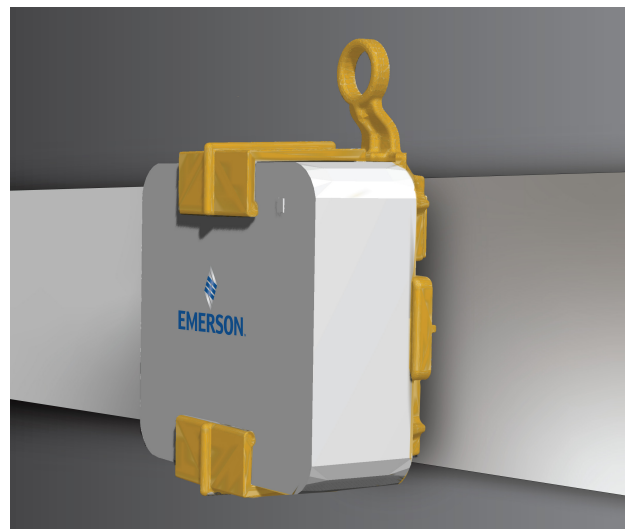**Wireless sensors for temperature monitoring in walk-in cold storage locations.**

Emerson's wireless LR (long-range) sensors are sBeacon compatible and utilize Bluetooth Low Energy technology. Designed to transmit through thicker rooms like walk-in cold storage, they provide temperature data accessible via an online portal using compatible smartphones, tablets, and computers.

Part of Emerson's Remote Temperature Sensing System, these sensors can be centrally managed remotely through the cloud service to transfer new messages and make battery status checks. Their unique design allows reliable broadcast - even in densely populate Wi-Fi environments.

Sensors make it easy and cost efficient to cover an area with Bluetooth Low Energy to internet connectivity to centralize management of temperature monitoring with a fraction of the effort required by alternative technologies.

Installing a sensor is simple

Verify contents Prep the surface Install sensor

Technology Highlights

• Bluetooth 4.2 (supports Low Energy feature)

• sBeacon (Emerson) data format

• Highly accurate temperature sensors

• Up to 3 years battery life

• Emerson central management

• Low capital investment

• Fast and easy roll-out, equipment agnostic

• Eliminates the need for wired access points

EMERSON

Technology Highlights

Battery	7200 mAh 3.6V
Operational Life Running iBeacon Mode Power Output (Range)	Up to 6 years, at 0dBm TX Power, Running 24/7, 100ms Interval Advertisements (iBeacon Spec)
Size	2.48" x 2.36" x 0.86" (63 mm x 60mm x 22mm)
Weight	3.3 oz (93.5 g)
Operational Temperature Range	-13 TO 185°F (-25 TO 85°C)
Bluetooth Type	Bluetooth Low Energy 4.2
Bluetooth Sensitivity	-97 dBm
Bluetooth Max Power Output	+20 dBm*
Bluetooth Antenna	+5 dB Directional Patch Antenna
Bluetooth Frequency	2.4 Ghz ISM
Bluetooth Data Rate	1Mbit/s
Bluetooth Security	128 bit AES
Power Consumption - RX	7.5mA RX Active Mode
Power Consumption - TX	6.5mA TX Active Mode
Beacon Protocols	sBeacon
Security	Authentication, Encryption, Rotation (Optional)
Power Consumption - Sleep	1.6 µA (SRAM retention and RTC running)
Power Output (Range)	0 dBm to +20 dBm can be configured over the air
Accuracy	Steady
State Accuracy	±1.0F from 32° to 149°F, ±2.0°F from -13 to 32°F and from 149° to 185°F

*Maximum power output may vary by region to comply with regional regulations

FC IC CE ◬

Emerson.com

EMERSON. CONSIDER IT SOLVED.™