Lumity[™] Plenum Gateway

Gateway for sensor network management.

Wi-Fi gateways for use with LR sensors for walk-in cold storage locations.

Emerson's plenum gateways are used to relay signals between Emerson's wireless sensors and the Emerson cloud as part of the Remote Temperature Sensing System. These gateways can be centrally managed remotely through the cloud service.

Designed to transmit through thicker rooms like walk-in cold storage, their unique design allows these gateways to broadcast reliably even in densely populated Wi-Fi environments. Alerts can be retrieved via Rest API calls.

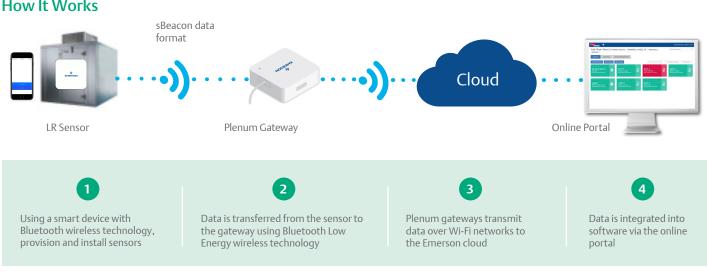
Gateway devices make it easy and cost efficient to centralize management of temperature monitoring with a fraction of the effort required by alternative technologies.

Technology Highlights

• Bluetooth 4.2 (supports Low Energy feature) and Wi-Fi compliant

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- sBeacon (Emerson) data format
- Models for any standard AC power outlet



How It Works



Technology Highlights

Battery	No battery – use BluFi DC if battery power is required
Power Plug	USB Type A
Weight	4.13 oz (117 g)
Size	3.4" X 3.2" X 1.2" (86.1mm X 82.2mm X 31.8mm)
Temperature Range	-4° to +158° F (-20° to +70° C)
Bluetooth Type	Bluetooth Low Energy 4.2
Bluetooth Sensitivity	-98 dBm
Bluetooth Max Power Output	+5 dBm
Bluetooth Antennas	-3 dBm Antenna, Omni Directional +10 dBm Directional Antenna with optional LNA with an additional +5 dBm amplification"
Frequency Supported	2.4 GHz ISM Bluetooth LE channels: 1- 40 & Adv Ch: 37; 38; 39 Non-Bluetooth Channels: SDR from 2400Mhz to 2500Mhz"
Bluetooth Data Rate	1Mbit/s
Bluetooth Security	128 bit AES
WiFi Type	802.11 b/g/n
WiFi Security	WPA2 Personal and Enterprise Security
WiFi TX Power	"20.5dBm @ 1DSSS and 11 CCK 15.0 dBm @ 54 OFDM"
WiFi RX Sensitivity	"-97.5 dBm @ 1DSSS -88.5 dBm @ 11 CCK"
WiFi Frequency	2.4 GHz with coexistence built-in with Bluetooth
WiFi Antenna	0 dBm Single Antenna, Omni Directional
Power Consumption	200 mA when TX 20 mA on sleep
Power Consumption – TX	9 mA at 0dBm
Power Consumption – Sleep	1.2 μA (SRAM retention and RTC running)
CPU	ARM Cortex M4 and ARM Cortex M3
Memory	256 KB Flash (100KB free for custom applications)
Managed services	Cloud real time managed
Data output to cloud	0.1 to 1 Mbit Up data
Certifications	FCC/CE
Flame Resistance Level	Gateway complies with UL2043 criteria; CMP rated cable UL file E348815

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REGULATORY INFORMATION Warning: To prevent possible electrical shock, fire or personal injury for safe operation of the product: Read all safety information before you use the product can be compromised. Do not use the product if to perates incorrectly. Carefully read. Read all instructions. Use product indoors only! Power failure warnings: This product should be inoperable when main power fails. Read installation instructions before connecting BluFi to power source. No user-serviceable parts inside, do no open. Ultimate disposal of this product should be handled according to national laws and regulations. Notice local regulations in Canada do not permit use of a mounting tab. Do not use the mounting tab to attached the unit to an outlet. United States Compliance: FCC id SL6 BEKKSBLUFI This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference that may cause undesired operation. IMPORTANT: changes or modifications to this product to operative any interference received. (JUFT to operate on Q) to operation is subject to the following: (1) therefore, including interference that may cause undesired operation. IMPORTANT: changes or modifications to this product not authorized by HID could void the FCC certification and negate your authority to operate this product. Canada Compliance: ISD C:248248LUFT This device complies with Industry Canada license -exempt RSS standards. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device may not cause harmful interference tate canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes; (1) "appareil ne doit pas produire de brouillage, et (2) "appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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