



Features & Options

- Multiple communication options including BACnet IP and MQTT
- Each gateway supports up to 50 sensors** that can be configured remotely via the gateway
- The system uses “smart logic” to find and secure a clean frequency channel rather than “frequency hopping”.
- Shows sensor readings, battery and signal levels via WAM Link Configuration Tool and WAM Design Commissioning Software
- Easily configure wireless sensors to be presented to BACnet network via a flat mode for a single gateway with sensors as subpoints



The 900 MHz Gateway receives the data from one or more sensors up to 275 feet* away, and provides the data to the BAS or cloud via BACnet IP or MQTT. Sensors can be configured remotely via WAM design configuration software and the WAM link configuration tool.

The gateway sends a confirmation signal to each sensor upon a successful reception. If the sensor doesn't receive this confirmation, it will retry it's transmission to the Gateway, which increases system reliability. The system uses “smart logic” to secure a clean frequency channel rather than “frequency hopping”.

Ordering Information

BA/GTW900-X 900 MHz Gateway for BAPI 900 MHz Wireless System

BA/USB900D-X... USB Dongle (WAM Link) for Configuring the Wireless System



USB Dongle

See end of Section F for list pricing.

Specifications

Supply Power:

POE (Power of Ethernet) 48V @ 3W,
or via optional wall power supply, 12 to 42VDC @ 500 mA, 20 to 30 VAC

Cable: 5' Ethernet cable with standard RJ45 connectors at each end (included)

Communication Ports:

RJ45 Ethernet:..... DHCP or static IP addressing

Capacity/Unit: Up to 50 sensors

Antenna: Thread-on Whip Antenna, 900 MHz, 1.2 dBi, 5.5" Long

Ambient: 32 to 150°F (0 to 70°C), 0 to 95% RH non-condensing

Typical Indoor Sensor to Receiver Reception Distance: Up to 275 feet*

Frequency: 900 MHz (4 Channels, 7 MHz Spacing)

Receiver Sensitivity: -101 dBm

Security: 128 bit AES encryption of wireless data. Configuration settings and device readings are user/password protected.

Mounting: Wall or surface mount

*Actual in-building transmission distances will vary depending upon building construction, transmission power setting and other factors.

**Gateway supports up to 50 Sensors at 5 minute transmission interval. BAPI recommends a maximum of 25 sensors at a 30 second transmission interval.

