



Features & Options

- Reduces Temperature "Spikes" Caused By Opening the Cooler or Freezer Door
- Wirelessly Transmits the Temperature
- 100 Foot In-Building Range, Extendable to 1,000 Feet with a Repeater*
- Receiver & Output Modules Convert the Wireless Data to Voltage, Current or Thermistor Resistive
- Buffer Chamber is 304 Stainless or Aluminum
- 8 Year Battery Life
- 2 Year Warranty



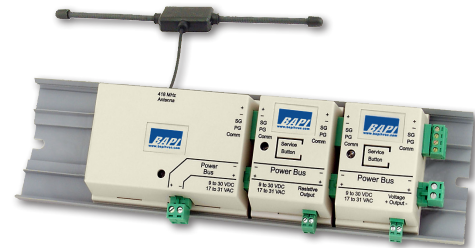
**Thermobuffer
temperature sensor
(2 inch probe shown)**

The BAPI Wireless 418 MHz Thermobuffer transmits the temperature of walk-in freezers or coolers to a receiver within 100 feet*. The Thermobuffer slows the temperature reaction of a freezer door opening to prevent false alarms or short cycling the compressor.

The Thermobuffer features a watertight BAPI-Box enclosure and is designed to be mounted to the wall of the cooler or freezer saving valuable shelf space. It is available with a two-inch or four-inch stainless steel buffer chamber (optional aluminum) which is sealed with customer provided oil, or a 50/50 glycol solution to approximate the temperature reaction of the refrigerated contents in the freezer or cooler.

Associated Products

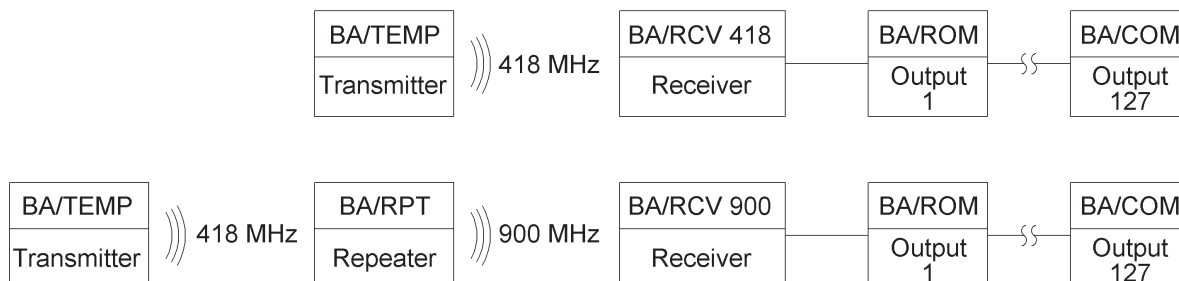
- **418 Receiver**
Receives the RF signal from the transmitter or repeater and outputs the values to up to 127 different Analog Output Modules.
- **Repeater:**
Extends the range of the Transmitter up to 1,000 feet.
- **Analog Output Modules:** Converts the signal from the Receiver into a Resistance, Voltage or Current for the DDC controller.



**418 MHz Receiver with two
Analog Output Modules**

Wireless Operation

The Wireless Thermobuffer measures the temperature through the buffer chamber and transmits the temperature approximately once every 20 seconds to a receiver which in-turn sends the signal to an analog output module. These output modules come in all the standard BAS analog inputs including Voltage, Current or Thermistor Resistance.





Rev. 04/16/15

Thermobuffer Freezer Transmitter

418 MHz Wireless System

F11

Ordering Information

PART NUMBERS:

BA/WT-TB-M304-2-BB

Wireless Thermobuffer, 304 Stainless Steel Chamber, 2 inch probe, BAPI-Box Enclosure

BA/WT-TB-M304-4-BB

Wireless Thermobuffer, 304 Stainless Steel Chamber, 4 inch probe, BAPI-Box Enclosure

BA/WT-TB-MAL-2-BB

Wireless Thermobuffer, Machined Aluminum Chamber, 2 inch probe, BAPI-Box Enclosure

BA/WT-TB-MAL-4-BB

Wireless Thermobuffer, Machined Aluminum Chamber, 4 inch probe, BAPI-Box Enclosure

BA/LI3620

Lithium Ion AA Battery, 3.6V, for all Transmitters except the BAPI-Slim and Wireless Food Probe

See end of Section F for list pricing.

Specifications

Supply Power: Two 3.6V Lithium batteries

Battery Life: 8 years at 20 second transmit rate

Battery capacity: 2.25 AH

Sensor: Built in thermistor

Accuracy: $\pm 0.36^{\circ}\text{F}$ ($\pm 0.2^{\circ}\text{C}$)

Temperature Range: -40°F to 185°F
(-40°C to 85°C)

Radio Frequency: 418 MHz

Transmit Power: 1.5mW

Transmit Time: 20ms

Modulation: Amplitude Modulation (AM)

A/D Resolution: 12 Bit

Transmitter Interval: ~20 seconds

Antenna: Built inside the enclosure

Error checking:

CRC 16, Cyclic Redundancy
Check 16 bit

Agency: FCC ID#T4F060811TEMP

Weight: 2 lb (0.9kg)

Environmental Operation Range:

Temp: -22°F to 158°F (-30°C to 70°C)
Humidity: 0% to 100% RH, Non-condensing

Enclosure Rating: NEMA 4, IP66

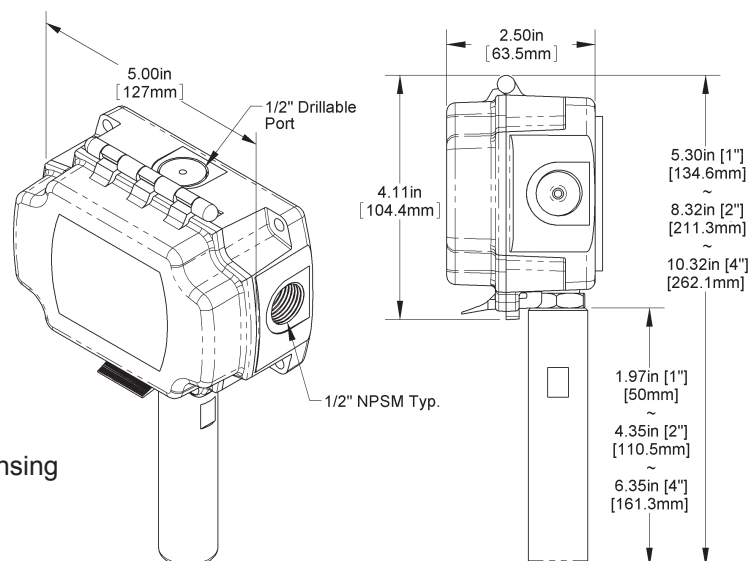
Enclosure Material: UV-Resistant Polycarbonate

Material Rating: UL94 V-0

Probe: 2 or 4 inch, $\frac{1}{4}$ " 304 Stainless Steel

Buffer chamber: 2 or 4" 304 Stainless Steel
(Optional machined aluminum)

Warranty: 2 Years



Note: Unit requires food grade glycol antifreeze for proper operation.

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



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