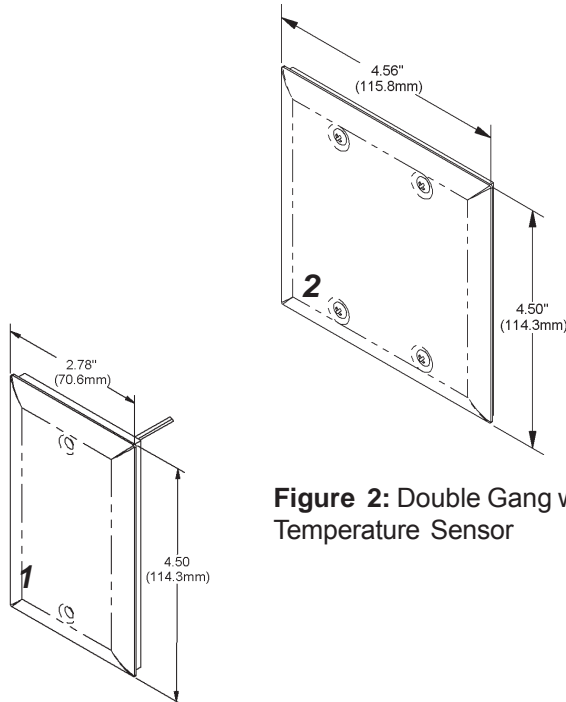


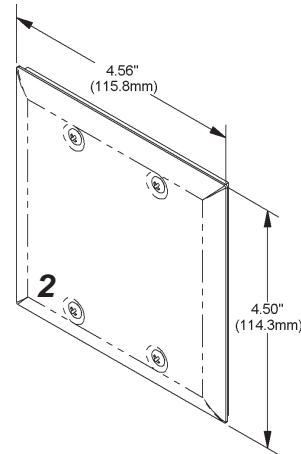
## Product Identification

BAPI recommends using twisted pair of at least 22AWG and sealant filled connectors for all wire connections. Larger gauge wire may be required for long runs. All wiring must comply with the National Electric Code (NEC) and local codes.

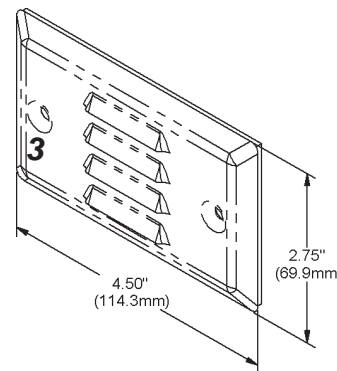
**Do NOT** run this device's wiring in the same conduit as AC power wiring of NEC class 1, NEC class 2, NEC class 3 or with wiring used to supply highly inductive loads such as motors, contactors and relays. BAPI's tests show that fluctuating and inaccurate signal levels are possible when AC power wiring is present in the same conduit as the signal lines. If you are experiencing any of these difficulties, please contact your BAPI representative



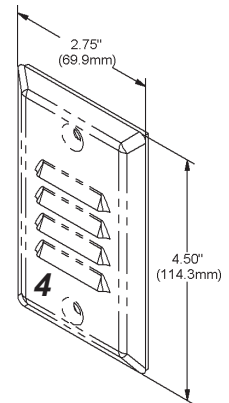
**Figure 1:** Wall Plate with Temperature Sensor



**Figure 2:** Double Gang with Temperature Sensor



**Figure 3:** Horizontal Louvered Temperature Sensor



**Figure 4:** Vertical Louvered Temperature Sensor



BAPI does not recommend wiring the sensor with power applied as accidental arcing may damage the product and will void the warranty

## Termination

Terminate the sensor wires to your controller wires using BAPI sealant filled connectors. The wallplate's foam back insulates the temperature sensor from the wall temperature and/or conduit drafts.

Temperature Sensor Lead Wire Colors			
Thermistor		Platinum RTD Single Point 2 Wire	
3K	Yellow/Black	100Ω	Red/Red
10K-2	Yellow/Yellow	1000Ω	Orange/Orange
10K-3	Yellow/Red	Platinum RTD Single Point 3 Wire	
10K-3 (11K)	Yellow/Blue	100Ω	Red/Red/Black
20K	White/White	1,00Ω	Orange/Orange/Black
100K	Yellow/White	Silicon RTD	
		2KT1	Brown/Blue

\*Some items may not be CE compliant, call BAPI for additional information.

Specifications subject to change without notice.

## Mounting

Mounting hardware is provided for both junction box and drywall installation.

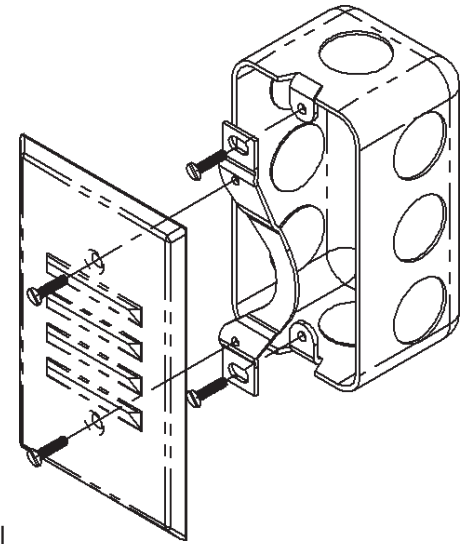
### Junction Box

1. Pull the wire through the wall and out of the junction box, leaving about six inches free.
2. Terminate the unit according to the guidelines in **Termination** on page 1.
3. Secure the plate to the box using the #6-32 x 1/2 inch mounting screw provided or with Security screws which are sold separately. (Order BA/SP632x1 — Spanner Security Screws, 6-32x1" (box 50) and BA/SPBIT — (Spanner Bit for Spanner Security Screws) - Use Yoke IF required\*.

### Drywall Mounting

1. Place the plate against the wall where you want to mount the sensor.
2. Using a pencil mark out the two mounting holes.
3. Drill two 3/16" holes in the center of each marked mounting hole. Insert a drywall anchor into each hole.
4. Cut hole between the mounting holes that clears the apparatus mounted on plate.
5. Pull the wire through the wall hole cut in step 4, leaving about six inches free.
6. Terminate the unit according to the guidelines in **Termination** on page 1.
7. Secure the plate to the drywall anchors using the #6 x 1 inch mounting screws provided.

\*Some wall plates require a mounting yoke for J-Box's as shown in the diagram.



**Figure 5:**  
Wallplate Yoke\*

## Diagnostics

### Possible Problems:

**Controller reports higher than actual temperature**

### Possible Solutions:

- Confirm that the input is set up correctly in the controller software.
- Verify that the wires are not electrically shorted (thermistor) or open (RTD)
- Check wiring for proper termination
- Disconnect the controller wires from the sensor. Measure the temperature sensor's resistance with an ohm-meter. Verify the sensor's output is correct (see note below). If the measured resistance is different from the temperature table by more than allowable, call BAPI technical support.

**Controller reports lower than actual temperature**

- Confirm that the input is set up correctly in the controller software.
- Verify that the wires are not electrically open (thermistor) or shorted (RTD)
- Check wiring for proper termination
- Disconnect the controller wires from the sensor. Measure the temperature sensor's resistance with an ohm-meter. Verify the sensor's output is correct (see note below). If the measured resistance is different from the temperature table by more than allowable, call BAPI technical support.

Compare the readings to the appropriate temperature table on the BAPI website:

<http://www.bapihvac.com>

Click on the sensor bar, then on the table needed.

Specifications subject to change without notice.