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Termination

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

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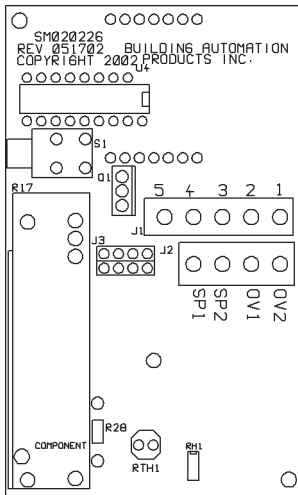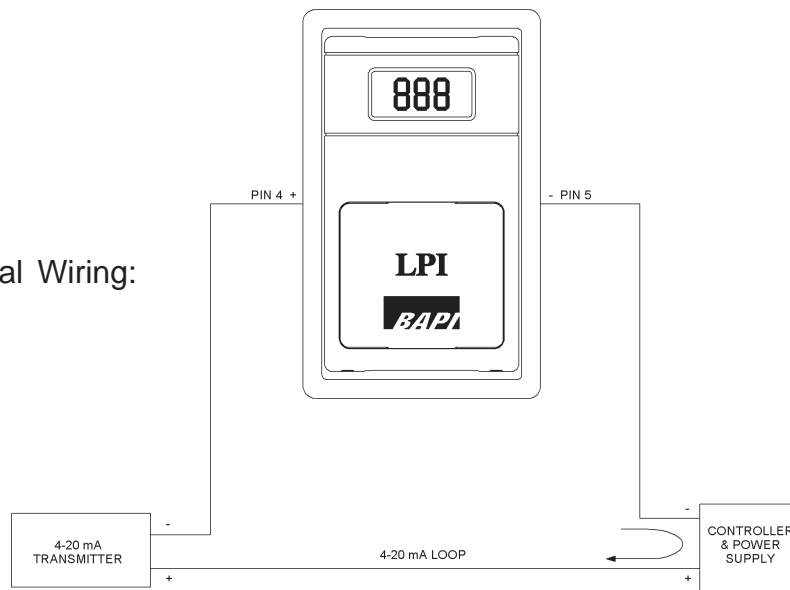damage the product and will void the warranty

Fig. 1

4 -   + connection

5 -   - connection

Fig. 2 Typical Wiring:

$$\frac{(A - 4) \times (Span)}{16} + Zero = Value$$

A = Ammeter Reading in mA
Span = The highest display value minus the lowest display value
Zero = The lowest display value
Value = Measurement

Specifications subject to change without notice.

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Troubleshooting

Possible Problems:

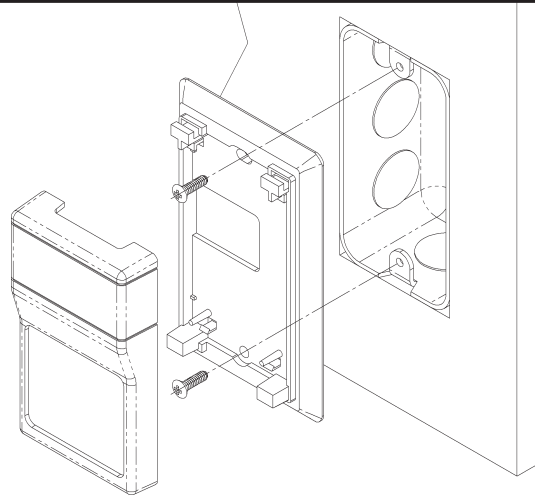No LCD

Incorrect LCD Value

Possible Problems:

- Check wiring polarity
- Check meter current using an Ammeter

-Verify that the LPI range and the transmitter range are the same
- Recalibrate the transmitter

Mounting

Fig. 3

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

Junction Box
1.   Pull the wire through the wall and out of the junction box, leaving about six inches free.
2.   Pull the wire through the hole in the base plate.
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)
4.   Terminate the unit according to the guidelines in **Termination** on page 1.
5.   Attach Cover by latching it to the top of the base, rotating the cover down and snapping it into place.
6.   Secure the cover by backing out the lock-down screws using a 1/16" allen wrench until they are flush with the bottom of the cover.

Drywall Mounting
1.   Place the base plate against the wall where you want to mount the sensor.
2.   Using a pencil mark out the two mounting holes and the area where the wires will come through the wall.
3.   Drill two 3/16" holes in the center of each marked mounting hole. Insert a drywall anchor into each hole.
4.   Drill one 1/2" hole in the middle of the marked wiring area.
5.   Pull the wire through the wall and out of the 1/2" hole, leaving about six inches free.
6.   Pull the wire through the hole in the base plate.
7.   Secure the base to the drywall anchors using the #6 x 1 inch mounting screws provided.
8.   Terminate the unit according to the guidelines in **Termination** on page 1.
9.   Attach cover by latching it to the top of the base, rotating the cover down and snapping it into place.
10. Secure the cover by backing out the lock-down screws using a 1/16" allen wrench until they are flush with the bottom of the cover.

Specifications subject to change without notice.

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