

Figure 45. mV personality board terminal blocks and jumper switches.

TB-1	Desc.	Wire Color from Sensor					
		mV Catalytic Bead Sensor			Sensept PPM*	mv MPD w/IR Sensor	
		MPD	705 705HT	Sensept Sensept HT		IR 5%	
					CO ₂	CH ₄	IR Flam
Pins 1-6		See subsections in Section 2.2.4 for pin identification					
7	Sense		Brown		Red		Brown
8	0v		White		Green		White
9	Ref		Blue		Blue		Blue

*Internal earth ground; approximately one inch of the black sheath that contains the Sensepoint PPM's four wires (red, blue, green, silver) must be split to allow the silver grounding wire to reach the internal grounding lugs.

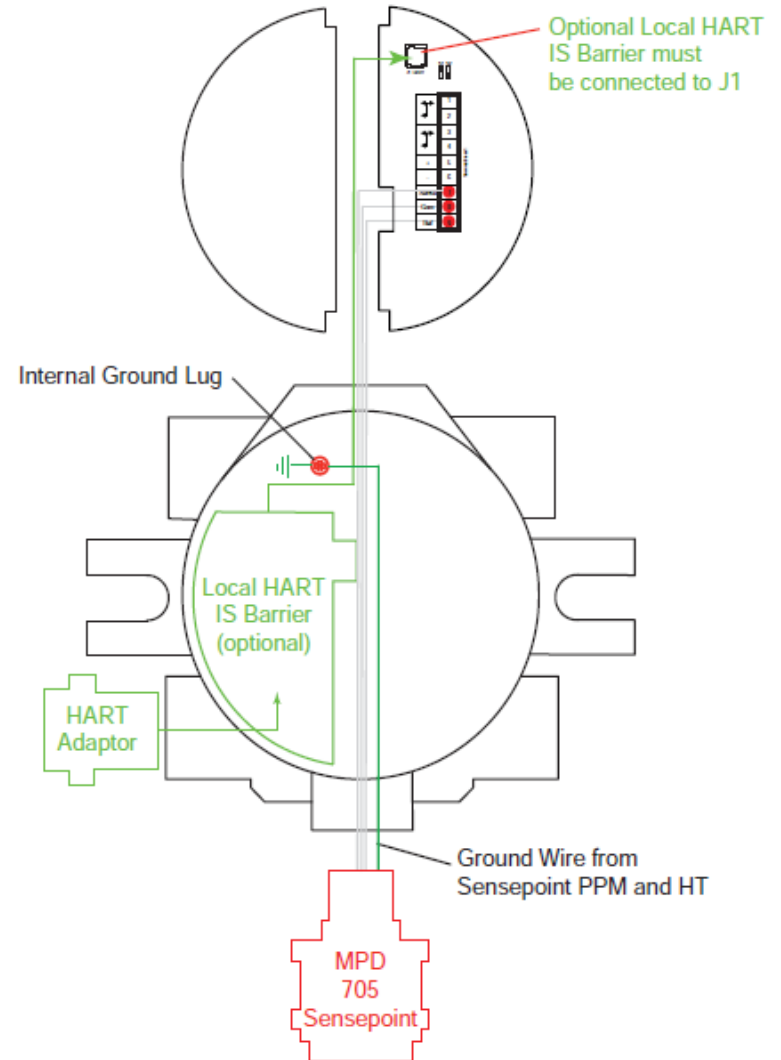


Figure 46. mV Personality Wiring

mV Remote Sensor Mounting

The sensor can be mounted remotely from the transmitter; the installation will vary by installed location, sensor and thread type used. To remotely mount the sensor, follow this procedure:

1. Unscrew the transmitter's weatherproof cover and loosen the retainer locking screw with the supplied hex key.
2. Run conduit from one of the transmitter's available conduit ports to the location of the remote terminal housing.

A terminal housing provides a mounting base for the sensor. The installation wiring enters the terminal housing via conduit.

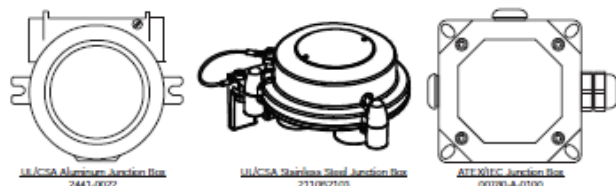


Figure 47. Remote Terminal Housings

The distance between the XNX Transmitter and remote installation must comply with these parameters to insure proper operation. Distances are dependent on sensor types and the wire gauge used.

AWG	Metric Wire Gauge	MPD CB1, 705 Series. Sensepoint Series Sensors	MPD IC1, IV1 & IF1 Sensors
24	0.25 mm ²	12m (47 ft.)	30m (97 ft.)
22		20m (66 ft.)	50m (162 ft.)
20	0.5 mm ²	30m (97 ft.)	80m (260 ft.)
18		50m (162 ft.)	120m (390 ft.)*
16	1.0 mm ²	80m (260 ft.)*	200m (650 ft.)*

* Frequency of Zero calibration may increase due to the changes in wire resistance from changing temperature.

3. Wire the pluggable terminal block as shown in Figure 45 then plug the connector into the back of the mV personality board. In remote mount MPD configurations, the 3 wires connecting the pluggable terminal block and the remote MPD must be routed through the supplied ferrite bead (Honeywell Analytics part no. 0060-1051, supplied in the accessory kit) as shown in Figure 48.

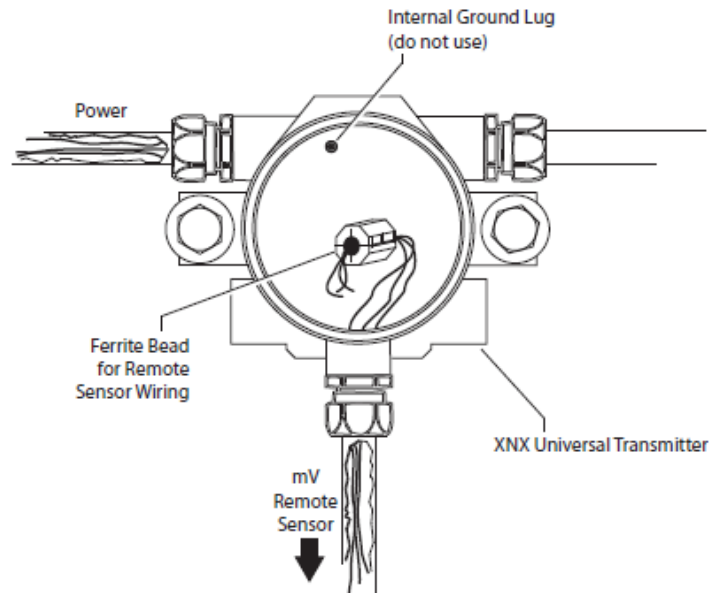


Figure 48. Ferrite bead wiring

4. Mount the remote sensor junction box with sufficient room below to fit the sensor and weatherproof cover.



Warning: Install the junction box according to local codes and manufacturer's requirements.

5. Attach the conduit to the remote terminal box.
6. In the remote junction box, connect the wires from the transmitter to the 3-way terminal block in the terminal box.



Note: The black and red wires from the MPD are not used with the XNX mV personality board. Ensure that they are properly isolated from live connections. Do NOT cut the wires.



Warning: The enclosures of remotely mounted 705HT sensors contain aluminum. Be careful to avoid ignition hazards due to impact or friction when installed in Zone 1 locations.

All cable port devices and blanking elements shall be certified in type of explosion protection flameproof enclosure “Ex d” or “Ex e”, suitable for the conditions of use and correctly installed.

7. Attach and wire the sensor in the terminal box.
8. Fit the terminal box lid.
9. Fit the sensor.
10. Calibrate the sensor following the procedure in [Section 3.2 - Calibration](#).