



## P2259/60 Quick Installation & Start-Up Guide

### 1. Cable Connections

Check that all cable connections between Remote Gas Transmitters and Multi-Channel Controller are correct. Toxic and Oxygen Gas Transmitters require a 4-conductor (18-22AWG), Combustibles, Carbon Dioxide, and Infrared Sensors require a 5-conductor (18-22AWG) cable.

**Note: The 5-conductor sensors has a wiring crossover listed below:**

1---1  
2---2  
3---4  
4---5  
5---3

After wiring has been checked apply power to the Multi-Channel Controller.

### 2. Loop Calibration for Remote Gas Transmitters

- Set the Dip Switch #1 (SW1 lower right-hand side of P2275 card) to the "On" position for a cold start-up. Then press and release the CPU reset switch (middle left hand side on P2275).
- The card cage contains 4 or 8 P2273 Remote Cell Interface Cards. The card cage is located on the left side of the back enclosure. Remove the first card from the card cage and move switch W1 to the right side. (Note: If there is a jumper instead of a switch, move jumper to the 2 pins closer to the edge of the card)
- Turn Trimpot P1 on the P2273 card counter clockwise until the Red LED on the card turns on. Turn Trimpot P1 slowly clockwise until the Red LED just shuts off, once the LED is off; turn Trimpot P1 one complete turn clockwise.
- Move switch back to the left side. (Note: If there is a jumper instead of a switch, move jumper to the 2 pins farther from the edge of the card)
- Repeat the above-mentioned steps for each active channel.
- When all cards are correctly adjusted set Dip Switch #1 (SW1 lower right-hand side of P2275 card) to the "Off" position. Press and release CPU reset switch.

### 3. Auto-Gas Calibration of Remote Transmitters

- Use a "pointy" device to push the calibration button in the remote sensor head and keep the push-button down for 2 seconds or longer. If the transmitter is an "XP" version use the supplied calibration magnet and hold it over the white calibration switch for 2 second, then remove.
- The bi-color LED will be turned ON (after the push-button has been pressed and released or the magnet has been removed) and show "Green" color. The calibration duration is typically 3 minutes and is preprogrammed. If the LED did not turn "Green" after the push-button has been released, press the push-button again and hold down for a longer period of time.
- While the LED is showing "Green" color, inject the ZERO GAS into the sensor head through the correct calibration fitting at the appropriate flow rate (Typically 0.5LPM or 1.0LPM).
- Maintain the flow of the ZERO GAS into the sensor head for as long as the LED is showing "Green" color.
- The bi-color LED will automatically show "Red" color, disconnect ZERO GAS and inject SPAN GAS.
- Maintain the flow of SPAN GAS into the sensor head for as long as the LED is showing "Red".
- After the preset calibration duration, the auto calibration procedure is completed. The bi-color LED will show a quick flashing "Green" color.
- Calibrate the remaining sensors and return to the Multi-Channel Controller. Select for the Main Menu "Save to EPPROM function".