

# Multi-Zone CO<sub>2</sub> Leak Detector Panel

## Startup Procedure for the Multi-Zone Leak Detector Panel P/N 851-4074

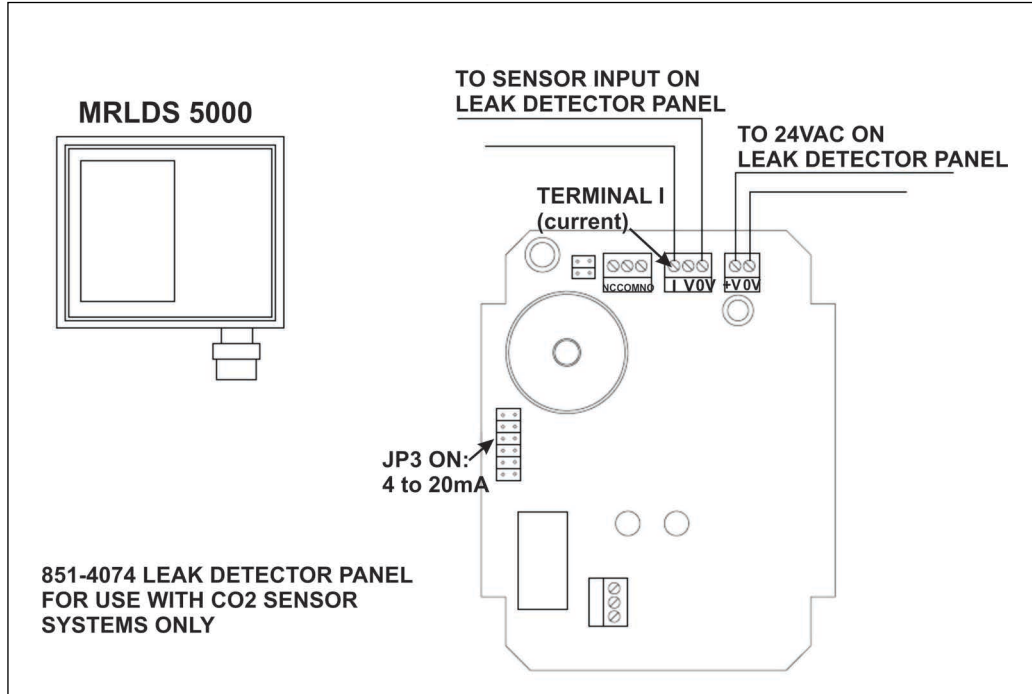
During the startup procedure for the Multi-Zone CO<sub>2</sub> Leak Detector Panel (P/N 851-4074 for use with CO<sub>2</sub> systems only), you may notice that the spill threshold setpoint is 4900 PPM instead of 5000 PPM. This is due to the installed sensor not outputting a full 20mA signal (5000 PPM). **This is correct. 4900 PPM is the correct setting for the spill alarm.** The CO<sub>2</sub> sensor is +/- 2% accuracy. 2% of 5000 PPM is 100 PPM.

At full range, a sensor within 2% tolerance will read between 4900 PPM and 5100 PPM.

For example, if you are testing the sensor and the highest reading achieved is 4920 PPM, that reading is within 2% tolerance and the sensor is operating correctly. For reliable spill detection, the spill alarm threshold setpoint must be set at the bottom of the tolerance range (4900 PPM). Changing the spill alarm threshold above 4900 PPM may result in spills going undetected by the Multi-Zone CO<sub>2</sub> Leak Detector Panel.

### Verifying An Effective Spill Level Value

1. Disconnect the wire from **Terminal I** (current).
2. Set your volt meter to read DC mA.
3. On the MRLDS or CO<sub>2</sub> sensor, place one lead of the meter onto **Terminal I** (current).
4. Then place the second lead of the volt meter onto the wire that was just removed from
5. **Terminal I** (current) to complete the circuit.
6. When the sensor is saturated with CO<sub>2</sub> from a test source, the attached volt meter should read between 19mA and 20mA.



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