

**CALIBRATION PROCEDURE FOR TOX-N02/ANA SENSOR  
FOR SENSOR RANGE OF 0-10ppm**

**TOOLS REQUIRED:**

- Calibration Gas
- Disbursing Calibration Adapter
- Digital Volt Meter (DVM)
- Small screw driver

**PROCEDURE:**

- 1 Sensor must first be powered for at least 30 min. prior to calibration
- 2 Remove the enclosure lid by turning counter clockwise.
- 3 Connect DVM to the plus (+) and minus (-) CAL SIGNAL test jacks on the top plate of the transmitter (see figure below).
- 4 Confirm that the sensor is presently exposed to clean air ( or apply a source of clean air at a flow rate of 300 mL/min and if necessary, adjust ZERO pot so that the meter reading is **0.040 VDC** +/- 0.001 VDC.
- 5 Attach the Adapter for the sensor onto the bottom of sensor.
- 6 Apply calibration gas at a flow rate of 300 mL/min.
- 7 Allow 3-5 minutes before making any adjustments.
- 8 If necessary adjust the SPAN pot so that the CAL SIGNAL voltage reading on the DMV matches the correct voltage for the known span gas. Span gas should be at least 50% of the sensor upper range limit. If the span gas is 10 ppm then the CAL SIGNAL voltage is **0.200 VDC** +/- 0.001 VDC.
- 9 Remove the span gas and verify that the meter reading returns to **0.040 VDC** within five minutes.
- 10 If the reading doesn't return to **0.040 VDC** adjust the ZERO pot until the meter reads **0.040 VDC** +/- 0.001VDC and repeat steps 5 to 9. ( This may take a few iterations)

**NO2 Correlation  
PPM / CAL SIG**

0	0.040 volts
1	0.056 volts
2	0.072 volts
3	0.088 volts
4	0.104 volts
5	0.120 volts
6	0.136 volts
7	0.152 volts
8	0.168 volts
9	0.184 volts
10	0.200 volts

