

Kit Includes:

25 mL Sensor Cap
1.5 m (5') Tygon Tubing
Tank Regulator (0.5 LPM)
Sponge
Carry Case

User Supplied:

Digital Multi-meter
Gas Requirements (103 liter tanks):
Zero Gas - Nitrogen
Span Gas – 10 PPM NO2

Calibration

The device may also be calibrated or verified with NO2 gas if required. This requires a field calibration kit consisting of Zero and Span of gases, Calibration adapter, Tubing with a calibration cap to cover to the sensor, a miniature screwdriver and a digital multi-meter.

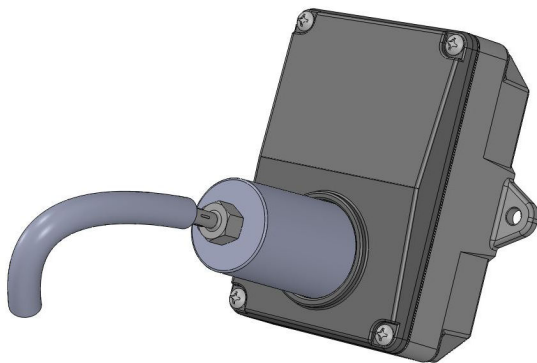
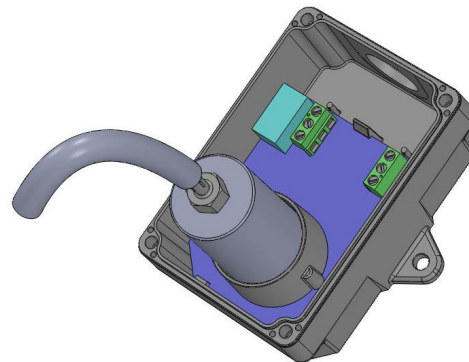
Moisten the included sponge and squeeze out any excess water. Place the sponge in the cap so that it will not come in contact with the sensor and does not plug the hole inside of the cap.

Verification can be done without removing the device cover. Simply apply Span gas using the calibration cap attached directly to the port on the cover and monitor the output signal.

The device cover must be removed to perform an actual calibration. In this case, the gas calibration cap attaches to the sensor fixture inside the enclosure. The sensor must be continuously powered for at least 1/2 hour prior to calibration. Calibrate the sensor either in clean air or by applying Zero gas with a flow rate of 0.5 to 1 liters per minute. Wait 2 minutes and adjust the ZERO pot on the sensor board until a 4 mA output is obtained.

Then attach the Span gas supply. Attach the cap to the fixture over the sensor. Slowly turn the valve knob on the regulator to let the gas begin flowing. Calibrate the sensor either by applying Span gas with a flow rate of 0.5 to 1 liters per minute. Wait 2 minutes and adjust the Span pot on the sensor board until a 20 mA output is obtained. The Span gas need not be the full scale concentration, but could be a fraction of this. A half scaled concentration, accordingly, should provide a 12 mA signal.

If the gas cap is too loose on the fixtures, simply place a wrap of electrical tape around the cap to tighten it up.

**Verify With Cover In Place****Calibrate With Cover Removed**