

GETTING STARTED WITH NITROUS OXIDE SENSORS



1. UNPACKING

- Remove the grey shock-absorbing plastic net and inspect the sensor visually. Leave the sensor in the protection tube for testing.

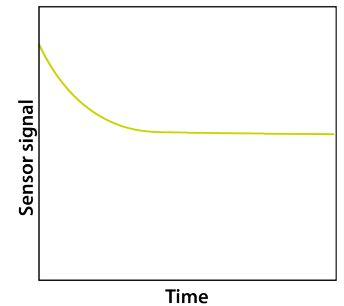
2. CONNECT THE SENSOR TO THE AMPLIFIER

- Set the polarization voltage to -1.3 V for pre-activation of the sensor.
- For UniAmp series instruments, adjust the polarization in the calibration window or in the Unisense Service in the Windows Notification Area.
- For Multimeter, Monometer, and Field Multimeter adjust the polarization on the instrument.
- For other amplifiers, set the polarization manually to -1.3 V.

NOTE! Incorrect polarization may destroy the sensor

3. WAIT FOR THE SENSOR TO STABILIZE

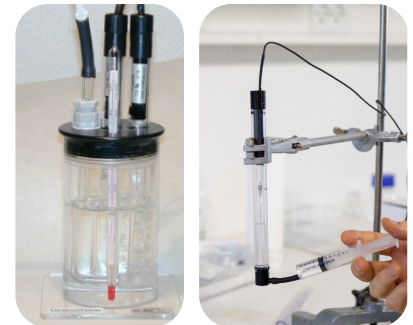
- Wait for 10-15 minutes and adjust the polarization to -0.8 V.
- The signal will first fluctuate and then decrease over time for at least 2 hours. If possible, leave the sensor to stabilize overnight.
- Once the signal is stable, calibration can be performed.



A typical decrease in sensor signal over time for a sensor that has just been plugged in.

4. CALIBRATE THE SENSOR

- Use air saturated water as one calibration point. This is easily done using the CAL300 calibration chamber. The sensor may be dipped directly into the calibration chamber or the air saturated water may be injected into the protection tube using the calibration cap.
- Use the Unisense N₂O solution as the second calibration point. Inject the N₂O solution into the calibration cap (incl. in calibration kit) and wait for the sensor to respond.
- For alternative calibration method, see the N₂O Microsensor manual.



CAL300 with microensors and bubbling with air. Injecting calibration liquid into protection tube using the calibration cap.

5. APPROVE THE SENSOR

- Compare the sensor signals to Unisense Standard specifications (incl. in sensor box).
If necessary, see Troubleshooting in the N₂O Microsensor manual or contact support (see below).

6. STORAGE

- When not in use, store the sensor with the protection tube mounted at 10 - 30°C. If the sensor is used regularly, keep it polarized and connected to the amplifier.

USEFUL TOOLS



For support go to
www.unisense.com/support/ or
contact sales@unisense.com



Get the full manuals for all
sensors, equipment & software at
www.unisense.com/manuals/.



N₂O Microsensor
Manual



Calkit-N₂O
Manual



SensorTrace Suite
Manual



Find SDS for
Calibration Kit here