Getting started with
NITRIC OXIDE (NO) 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

- On a UniAmp series amplifier the polarization is automatically set to +1250 mV.
- For other amplifiers, set the polarization manually to +1250 mV.

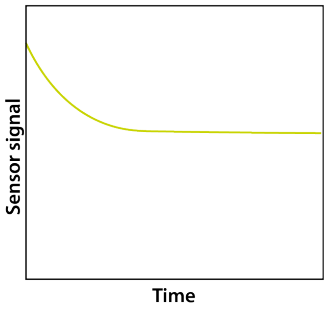
NOTE! Incorrect polarization may destroy the sensor

3. Grounding

- Connect a grounding to the ground connector on the amplifier and dip the other end into the liquid where the sensor will be immersed. This MUST be done BEFORE the sensor is immersed.

4. Wait for the sensor to stabilize

- The signal will be very high right after the sensor is connected and will decrease over time.
- The period of decreasing signal will normally be at least 2 hours.
- 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.

5. Calibrate the sensor

- Obtain the low calibration point in air saturated water. This is easily done by placing the sensor in the CAL300 calibration chamber with continuous bubbling.
- The high calibration point is obtained by placing the sensor in liquid with a known concentration of NO. Wait for the sensor to respond.
- NOTE: NO reacts spontaneously with O_2 and NO calibration solution should be prepared in anoxic water (see sensor manual for details).

CAL300 with microsensors and bubbling with air.

6. Approve the sensor

- Compare the calibration points to Unisense Standard specifications (incl. in sensor box). If necessary, see Troubleshooting in the NO Microsensor manual or contact support (see below).

7. 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/.

NO Microsensor Manual

SensorTrace Suite Manual

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