

Dissolved oxygen

Dissolved oxygen is present in practically all liquids. The liquid dissolves oxygen until the partial pressure of the oxygen in the liquid is in equilibrium with the air or gas in which it is in contact. The actual concentration of dissolved oxygen depends on a number of factors, such as temperature, air pressure, the consumption of oxygen by micro-organisms in a biodegradation process or the production of oxygen by algae.

Measurement

1. Check or calibrate the meter with the sensor.
2. Clean the sensor with distilled water.
3. Immerse the D.O. sensor in the sample.
4. You can switch between the following displays with **<M>**:
 - D.O. concentration [mg/L]
 - D.O. saturation [%]
 - D.O. partial pressure [mbar]
5. Start the measurement using **<ENTER>**. The [AR] status indicator is displayed.
6. Wait for the AutoRead measurement to be completed (indicator [HOLD] [AR]).

Calibration

1. Connect the D.O. sensor to the meter.
2. Place the D.O. sensor in the check and storage beaker (the sponge in the check and storage beaker must be moist and not wet).
3. Leave the sensor in the check and storage beaker long enough so it can adapt to the ambient temperature.
4. Start the calibration with **<CAL>**. The last calibration data is displayed.
7. Start the measurement using **<ENTER>**. The [AR] status indicator is displayed.
8. Wait for the AutoRead measurement to be completed (indicator [HOLD] [AR]).
9. Switch to the measured value display with **<ENTER>**.

FDO check procedure

1. Connect the D.O. sensor to the meter.
2. Place the D.O. sensor in the check and storage beaker (the sponge in the check and storage beaker must be moist and not wet).
3. Leave the sensor in the check and storage beaker long enough so it can adapt to the ambient temperature.
4. Press **<ENTER>** to access the FDO check measurement menu.
5. Select with **▼ ▲** *measure FDO check*, press **<ENTER>**
6. Start the measurement using **<ENTER>**. The [AR] status indicator is displayed and the measured parameter flashes.
7. Wait for the AutoRead measurement to be completed (indicator [HOLD] [AR]).
- 8.** Switch to the measured value display with **<M>**.