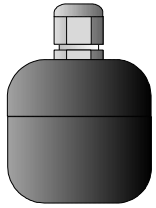
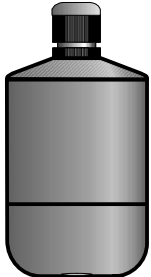


# OxyGuard Oxygen Probes

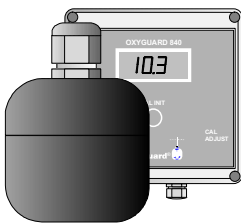
An Overview



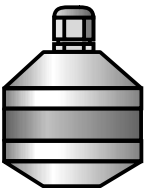
Standard Probe



Model 420



Model 840



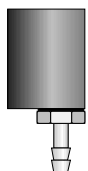
EX Probe



DO Profile



Ocean



Handy Gas Measurement Chamber

Handy Probe



## General Purpose:

### Standard Probe:

- Millivolt output.
- Integral temperature compensation.
- Used with appropriate transmitter.
- For mg/l dissolved oxygen.
- For % saturation dissolved oxygen.
- For naturally occurring oxygen levels.
- For high oxygen levels.
- For low oxygen levels.
- For measuring oxygen in gas.
- For the measurement of oxygen purity.
- Also available with built-in temperature sensor.

### Model 420:

- Built-in 2-wire 4-20 mA transmitter.
- Variations as Standard Probe.
- Ideal for PLC and computer systems or similar.

### Model 840

- 2-wire 4-20 mA oxygen meter.
- For both low and high levels of dissolved oxygen.
- Measures both mg/l and % sat. values.
- Very nearly maintenance-free!**
- Always calibrated to 100% sat.
- For waste water treatment plants.
- For other solitary measurements.
- Ideal for PLC and computer systems that need local display and very easy calibration.
- Toughest membrane on the market!

## EX Area Measurements

The **EX Probe** is used in gases or liquids in EX classified areas. It is essentially a metal capped version of the Standard Probe.

## Profile Measurements

The **DO Profile Probe** is designed specially for profiling measurements. Millivolt output.

## Deep-Sea Measurements

The **Ocean Probe** is designed for static measurements at depths of over 2000 m. Millivolt output.

## Gas Measurements

**OxyGuard Probes** are found for measuring ambient air, oxygen purity, contamination of other gas with oxygen as well as for checking modified atmosphere packaging gas.

## The Handy Probe

This is fitted to OxyGuard Handy hand-held meters.

## Special Designs

OxyGuard probes can be made with fittings or in designs to suit your use. A temperature sensor can be incorporated.

# Technical Advantages

**OxyGuard** oxygen probes are galvanic cells that generate an electrical signal proportional to the oxygen pressure they sense, no matter whether the probe is in water, air or another medium. They are very robust and easy to use. They do not need an external supply - they make their own electricity. OxyGuard probes are connected using ordinary cable, and can be placed as required - there is no restriction on cable length. The membrane can be wiped with a cloth, a tissue or even with your thumb!

Cleaning the membrane is, apart from an occasional calibration, the only routine maintenance necessary. Probe types for use on the lower oxygen levels found in waste water treatment plants or similar never need to be taken apart for service unless the membrane should be damaged, e.g. due to accident when cleaning - and the membrane is very tough! After some years' use probe types for use on higher oxygen levels will need renovation, which entails fitting a new membrane, anode and electrolyte. This process is very easy, and can be carried out by anyone in just a few minutes. The cost of spares is negligible, and parts for the first renovation come with the probe! Note that OxyGuard oxygen probes "last forever" - they can be repeatedly renovated.

## Typical Features:

- \* **True zero - no zero adjustment.**
- \* **Self-temperature compensating.**
- \* **Self-exciting galvanic cell.**
- \* **Connect with ordinary cable - of any length!**
- \* **Excellent long-term stability, long calibration and cleaning intervals.**
- \* **No regular service needed, probe renovation intervals up to 2 years or more.**
- \* **Strong membrane, practically unbreakable - other materials available.**
- \* **Range of membranes available to give ideal performance in different uses.**
- \* **Negligible service costs - renovation kit included with probe.**
- \* **Probe renovation can be performed by anyone without special training.**
- \* **Wide range of versions and fixtures - special fixtures made on request.**
- \* **Probes shipped ready for use with junction box, cable glands etc.**

## Probe Types:

Most probes can be ordered as one of three types, type 0, 1 or 2, according to measuring range. The anodes and electrolyte differ. The Model 840 is, however, always a type 2.

Type 0: For oxygen gas purity or high level DO. Detection limit 0.1 mg/l. Max full scale 200 mg/l, 2000% sat or 100% volume.

Type 1: For aquaculture and other uses. Detection limit 0.1 mg/l. Max full scale 50 mg/l, 500% sat or 50% volume.

Type 2: For waste water treatment (sludge basins), air measurement, trace oxygen in gas and Model 840. Detection limit approximately 0.03 mg/l. Max full scale 25 mg/l, 250% sat or 25% volume.