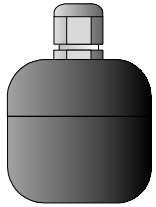
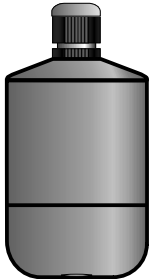


OxyGuard Oxygen Probes

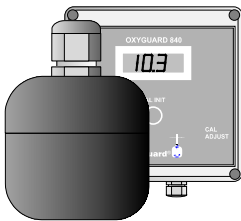
An Overview



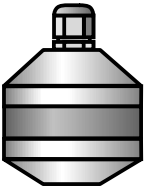
Standard Probe



Model 420



Model 840



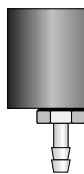
EX Probe



DO Profile



Ocean



Handy Gas
Measurement
Chamber

Handy Probe



General Purpose:

Standard Probe:

- Millivolt output.
- Integral temperature compensation.
- Used with appropriate transmitter.
- For dissolved oxygen - mg/l (ppm) and % saturation.
from 0.5 mg/l to super-saturation.
- For measuring oxygen in gas.
- For the measurement of oxygen purity.
- Also available with built-in temperature sensor.

Very nearly maintenance-free!

Model 420:

- As above, but with built-in 2-wire 4-20 mA transmitter.
- Ideal for PLC and computer systems or similar.

Model 840

- 2-wire loop-powered 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!

Model 810

- Mains-powered version of the Model 840
- Has 4-20 mA and one contact (limit switch or alarm) output.

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. Temperature compensation is built into the probe. 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!

OxyGuard's continued research into oxygen probes has permitted the introduction of improvements, so that the probes delivered today have extremely high long term stability and extremely low maintenance demands - even better than the original OxyGuard probe.

The OxyGuard probe, unlike some others, has an unlimited life time even at high oxygen levels. Only damage to the tough membrane or the accumulation of deposits that cannot be cleaned off will make it necessary to open the probe to change the membrane - it does NOT "wear out". AN OXYGUARD PROBE SHOULD NOT BE OPENED FOR SERVICE UNLESS THE MEMBRANE IS DAMAGED OR THERE IS DIFFICULTY IN CALIBRATING IT.

If it should be necessary to change the membrane the process is very easy, and can be carried out by anyone in just a few minutes. The process renovates the probe completely. 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:

Today the larger probes are available in three types - type "M" for mg/l dissolved oxygen, type "SV" for % saturation dissolved oxygen as well as % volume oxygen in gas, and type "V" for use on pure oxygen.

"M" and "SV" probes use the new Type III anode and electrolyte, whilst "V" probes use the "old" type 2 anode and electrolyte.

Handy probes still use type 1 anodes and electrolyte for all uses except for use on pure oxygen, when type 2 anodes and electrolyte are used.

For other probes please see the appropriate brochures.