

OxyGuard Mini Probe

Small Size Dissolved Oxygen Probe



The OxyGuard Mini Probe is a membrane covered galvanic cell that generates an electrical signal proportional to the oxygen pressure it senses, whether it is placed in water, air, oil, wine etc..

Just 15mm in diameter and 101 mm in length it can, for example, be lowered into a wine bottle. The probe acts as a battery with output voltage that is proportional to the oxygen concentration. It does not need an applied voltage or microprocessor controlled electronics in order to function.

The Mini probe has a true zero and a low output impedance, and can be connected to most types of transmitter or metering equipment with input impedance 1 megohm or greater and galvanic isolation if the equipment is connected to other equipment. Calibration is carried out by placing the probe in air and adjusting the transmitter or metering equipment connected to it.

Technical Advantages

- Galvanic type.
- No warm up time.
- Remarkably short response time.
- Excellent long-term stability.
- Probe renovation easy and fast when needed.
- Self-polarizing.
- Fully temperature compensated.
- Very small size, very light weight.
- Tough membrane.

Specifications

Dimensions:	Diameter = 15 mm, length = 101 mm. Weight approx. 30 g plus leads. Standard lead length 3 m.
Principle:	Galvanic cell, self polarizing, self temperature-compensating.
Output signal:	Typically between 10 and 40 mV in air.
Measuring range:	Typical 0 to 200% saturation DO.
Accuracy:	1% of measured value, repeatability typically +/- 0.5% of value.
Flow Requirements, water:	Dependent on DO and temperature, typically minimum 1 cm/sec.
Operating Conditions:	-5 to 45°C.
Spares:	Membranes, 50 ml electrolyte, cleaning pad, membrane protector.

Ordering Information

D161SV:	Mini probe in transport chamber with with spares and spare cap.
D16TOOL:	Membrane replacement tool.

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Data subject to change without notice



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