Clairair Ltd

Sensor People

CD-O2

Disposable Galvanic Dissolved Oxygen Sensor

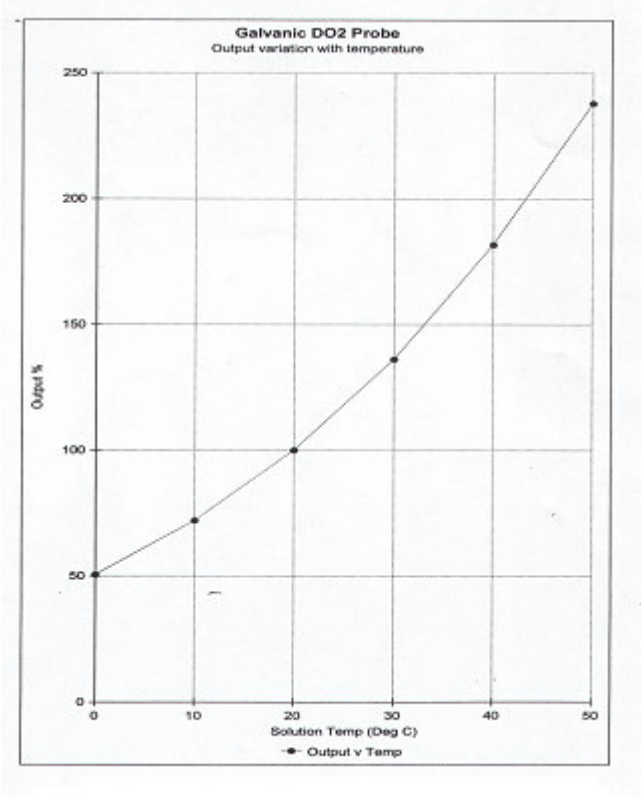
Features

- Maintenance free
- Linear voltage output
- Works directly with a pH mV or ion meter.
- 35mV – 55mV output in air saturated water
- <0.3mV output in zero oxygen solutions
- Sensing range: 0 - 200% air saturated reading
- Operating temperature range: 0 - 40ºC
- Standard 12mm body diameter
- 120mm probe length
- Lead length can be made to suit requirement, standard length = 1 metre.
- A.T.C. sensor (Thermistor or Pt100/1000) can be fitted to suit requirement
- Connector type can be fitted to suit requirement, standard connector = BNC
- Maximum operating pressure: 1 Bar
- Lifetime: 2 years under normal usage

Description and Operation

The CD-O2 is a disposable galvanic dissolved oxygen sensor. It has a unique sealed membrane that allows ease of use without the need for spare membranes and refilling solutions. This also guarantees accurate results and long life, typically 2 years under normal usage. The output voltage is a linear function of dissolved oxygen. The zero level output voltage in zero oxygen solution is less than 1% of the air saturated water (20.9% oxygen) level output voltage. The typical output variation with temperature is shown in the accompanying graph and this can be compensated by use of a fitted A.T.C. sensor or an external temperature sensor.

The sensor can be directly connected to a standard pH mV meter or an ion meter, .



Handling Precautions

Connections should be made via the supplied connector only.

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