

12mm DO₂ Steam Sterilizable Dissolved Oxygen Sensor

Features

- Steam Sterilizable up to 135°C
- Patented Galvanic Cell Design¹
- Fast Stabilization
- No Zero Current Offset
- No Polarization Voltage Required
- **New** TOP68 Quick Disconnect Cable Connector.

Applications

- Bioreactors
- Fermentation Vessels

Description

The 12mm DO₂ Galvanic Dissolved Oxygen Sensors have been used in the fermentation industry for years due to their ruggedness, high current output and long term stability. These galvanic cells are designed with a coiled silver cathode and large lead anode immersed in a high boiling point propionic acid electrolyte and a Teflon[®] (PFA) membrane. The unique cathode design eliminates trapped gas bubbles that may lead to erratic readings, while the large lead anode enables a long service life.

The optional TOP68 quick disconnect cable system provides ease of use and the reliability of fixed cable. The TOP68 has an IP68 environmental rating, which means it's water tight, corrosion resistant and suitable for wet areas high in humidity or where hose down cleaning operations are standard operating procedure. The TOP68 should be selected where autoclaving is required.

Specifications

Material of Construction	316 Stainless Steel, Glass and Teflon [®] membrane
Output	15.5 microamps in Air @ 25°C (77°F)
Temperature Range	-5 to 135°C (23 to 275° F)
Pressure Range	0 to 3.45 bar (0 to 50 psig) @ 25°C (77°F)
Theoretical Slope	1.88 microamps/ppm @ 25°C (77°F)
2000 Ohm Resistor across Anode/Cathode	3.845 millivolts/ppm @ 25°C (77°F)



INGENIEROS ASOCIADOS DE CONTROL S.L.

Telf.: 913831390
comercial@iac-sl.es



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Ordering Information

The DO₂-12mm is a sealed, disposable, galvanic dissolved oxygen sensor that is designed for continuous service in steam sterilizable fermentation applications. The lifetime for the 12 mm DO₂ sensor is typically 30 sterilization cycles.

Model	Description
DO2 - 12MM	Galvanic Dissolved Oxygen Sensor 316 Stainless Steel Cap 3m (10 ft) Coax Cable with BNC Connector
Code	Description
T68	TOP68 Quick Disconnect
DO2 - 12MM - T68	Order Number Example

DO₂ Mounting Glands for Stainless Steel Cap

Part Number	Description
Z7500	½" MNPT, 316 SS
Z7501	¾" MNPT, 316 SS
Z7510	25 mm Port Gland, 316 SS
Z7520	1.5" Sanitary Flange, 316 SS
Z7521	2" Sanitary Flange, 316 SS

DO₂ Mounting Glands for Pg 13.5 Connector including TOP68

Part Number	Description
Z7512	25 mm Housing for Pg 13.5, 316 SS

TOP68 Cable

Part Number	Description
Z7062	Coax Cable, 4.5M (15 ft.)
Z7063	Coax Cable, 9.1M (30 ft.)



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