
Features

- ?? Patented Galvanic Cell Design¹
- ?? Rugged Ryton[®] Body material
- ?? Refillable with Replaceable Membrane Cap
- ?? ¼ inch Process Connections
- ?? Fast Stabilization
- ?? No Zero Current Offset
- ?? No Polarization Voltage Required

Applications

- ?? Water and wastewater treatment
- ?? Aquaculture Ponds and Tanks
- ?? Process Monitoring and Control
- ?? Plant Effluent
- ?? General Industrial Service



Description

The **DO2-WW Dissolved Oxygen Sensor** is built out of rugged Ryton material for chemical resistance in the harshest of environments. This galvanic sensor offers a high current output and long-term stability. This galvanic cell is designed with a coiled silver cathode and large lead anode immersed in a proprietary electrolyte with 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 “bayonet” style replaceable membrane cap assures proper tensioning of the membrane with a simple twist, no tools required.

Specifications

Model D02-WW	Specifications
Materials of Construction	Ryton with Viton O-rings and Teflon Membrane
Output	Approximately 30 mV in air at 25°C (77°F)
Temperature Range	0 to 50°C (0 to 122°F)
Temperature Compensation	Integral NTC, covering 5C to 50C (41F to 122F)
Pressure Range	0 to 3.45 bar (0 to 50 psig) at 25°C (77°F)

¹United States Patent No. 4,620,918

? Ryton is a registered trademark of Phillips 66 Co.

? Teflon and Viton are Registered Trademarks of E.I. Du Pont de Nemours + Co.

INNOVATIVE SENSORS, INC.
REGISTERED TO ISO 9001
CERTIFICATE NO. 00-1001



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Ordering Information

DO2-WW Dissolved Oxygen Sensor is constructed of Ryton and is designed with a patented coiled silver cathode and a large lead anode with a Teflon membrane. The unique cathode design eliminates trapped gas bubbles to prevent erratic readings, while the large lead anode enables a long service life. The membrane cap is designed to facilitate easy service and proper tensioning of the membrane. No tools are required for membrane replacement. The expected service life, if serviced regularly, is up to three years depending upon application.

Ordering Code	Description
DO2-WW	Refillable dissolved oxygen sensor with 15 ft (4.5M) cable and 3/4 inch process connections. Includes (2) membrane caps and (1) bottle of electrolyte.

Accessories

Part Number	Description
Z7410	DO2-WW Refill Electrolyte, 2 oz bottle
Z7420	DO2-WW Replacement Membrane Cap



Figure 1: DO2-WW Dimensions



Figure 2: DO2-WW with bayonet twist on/off replacement membrane cap.



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