Model DM-700-O$_2$

Oxygen Sensor

Scrolling Full Message/Text Display

Electrochemical Fuel Cell
(shown as PN 967-343494-25P_ in SS junction box)

Description

Model DM-700-O$_2$ is a non-intrusive "Smart" sensor designed to detect and monitor Oxygen in air over the range of 0-25% by volume using electrochemical sensor technology. The plug-in, field replaceable sensor cell is temperature compensated and features over-sized gold-plated connections that help prevent corrosion. The Model 700's rugged framework includes an intrinsically safe electro-polished 316 stainless steel housing with fully encapsulated electronics and dual layer surge protection. This innovative design virtually eliminates sensor failure due to water ingress, corrosion, vibration, and transient spikes. A primary feature of the Model 700 is embedded intuitive software that simplifies operator interface by guiding the user through routine calibration, configuration, and fault diagnostic functions using a built-in alpha/numeric display. The Model 700 is equipped with standard analog 4-20mA, and Modbus™ RS-485 outputs. Among its unique features is a wireless option that can be used with Detcon's SmartWireless® product line. Additional integration options include a Remote Alarm Module (RAM), and HART. Detcon's oxygen sensors have a long shelf life and are supported by an industry-leading warranty.

Applications

- Petrochemical
- Refineries
- Chemical plants
- Confined Space Monitoring
- Analyzer Shelters
- Wastewater treatment plants
- Wet wells-dry wells
- Pulp and paper
- Food and beverage
- Utilities

Features

Failsafe User-Friendly Interface
- LED Display (With Antiglare Cover)
- Full Text Display Method
- Non-intrusive Interface
- Auto Zero/Auto Span
- Pre-emptive Fault Diagnostics

Environmentally Bulletproof
- Electropolished 316SS Construction
- 100% Epoxy Encapsulated Circuitry
- Bulletproof I/O Protection
- Water-Proof, Corrosion-Proof, Vibration-Proof

Modular and Serviceable
- Modular Design
- Plug and Play Components
- Quick Thread Release (For Sensor Replacement)
- Integral Calibration Port