3M Gas & Flame Detection

3M[™] Detcon[™] MODEL DM-534

Oxygen sensor assembly

Specifications

Sensor Type Galvanic Metal Air Battery

> Measurement Range 0-25% Oxygen

Accuracy/Repeatability ±1% FS

Response/Clearing Time T90 <20 seconds

Span Drift <5% signal loss per year in first two years

> Linearity ± 0.5% FS

Operating Temperature Range -25°C to +40°C (US); -40°C to +40°C (Can)

> Operating Humidity Range 0-99% RH non-condensing

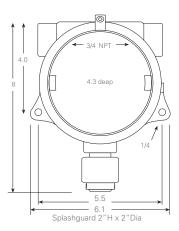
> > Outputs Linear 4-20 mA DC Input Voltage 11.5-28 VDC

Power Consumption <0.75 watts @ 24 VDC

Electrical Classification Explosion proof Class I, Division 1, Groups B, C, D

> Safety Approvals cCSAus Ingress Protection NEMA 4X, IP66

Sensor Life/Warranty Sensor: 2 year warranty expected life Sensor: 2 year warranty Transmitter: 2 year warranty





Description

Detcon Model DM-534 sensor is designed to detect and monitor O2 in air over the range 0-25% by volume. The sensor assembly consists of an electrochemical fuel cell mounted in a stainless steel housing that includes a splashguard with integral cal port, a signal conditioning control transmitter circuit, a base connector board and an explosion proof junction box. Operator interface is via a small handheld magnet. One of the main features is the embedded intuitive software that guides the user through routine calibration and configuration menus using a built-in LED alpha/numeric display.

Features

- cCSAus Approved: Class I, Division 1, Groups B, C, & D
- 4-20 mA output
- Simple menu driven calibration takes less than 3 minutes
- Backlit LCD and LED indicators for FAULT and CAL status
- Plug-in field-replacable transmitter
- Electrochemical plug-in sensor
- Embedded temperature compensation provides direct correction to changes in ambient temperature
- 2-year expected sensor life in air with 20.9% Oxygen

Order guide

PN 965-345420-025 PN 965-34542B-025

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Model IR-534 in Aluminum Junction Box Model IR-534 in Stainless Steel Junction Box