



## Model DM-534

Oxygen sensor assembly



### Description

Model DM-534 sensor is designed to detect and monitor O<sub>2</sub> 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

- cSAUs 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

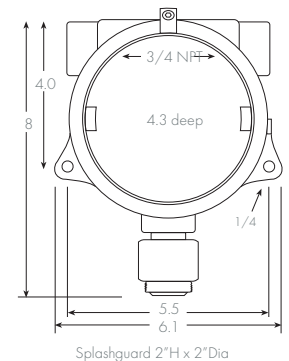
PN 965-345420-025  
PN 965-34542B-025

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

### Specifications

<b>Sensor Type</b> Galvanic Metal Air Battery	<b>Response/Clearing Time</b> T90 <20 seconds	<b>Operating Temperature Range</b> -25°C to +40°C (US); -40°C to +40°C (Can)	<b>Input Voltage</b> 11.5-28 VDC
<b>Measurement Range</b> 0-25% Oxygen	<b>Span Drift</b> <5% signal loss per year in first two years	<b>Operating Humidity Range</b> 0-99% RH non-condensing	<b>Power Consumption</b> <0.75 watts @ 24 VDC
<b>Accuracy/Repeatability</b> ±1% FS	<b>Linearity</b> ± 0.5% FS	<b>Outputs</b> Linear 4-20 mA DC	<b>Electrical Classification</b> Explosion proof Class I, Division 1, Groups B, C, D

<b>Safety Approvals</b> cCSAus	<b>Ingress Protection</b> NEMA 4X, IP66
<b>Sensor Life/Warranty</b> Sensor: 2 year warranty expected life Sensor: 2 year warranty Transmitter: 2 year warranty	



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