Model DM-634
Oxygen Sensor Assembly
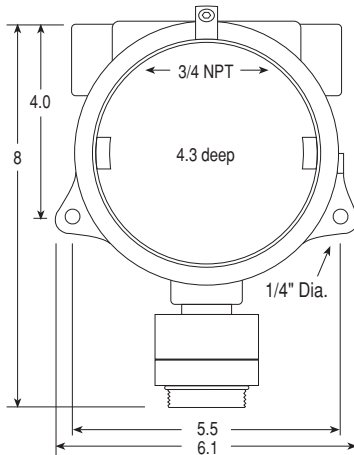
Electrochemical Fuel Cell

MicroSafe™ Intelligent Sensor

Specifications

Sensor Type
Galvanic Metal Air Battery

Measurement Range
0-25% Oxygen

Accuracy/Repeatability
±2% 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
-20°C to +50°C; -4°F to +122°F

Operating Humidity Range
0-99% RH non-condensing

Output
Linear 4-20 mA DC
RS-485 Modbus™
3 Relays (alarm 1, alarm 2, & fault)
Contacts rated 5 amps

Input Voltage
22-28 VDC

Power Consumption
<2.1 watts @ 24 VDC

Electrical Classification
Explosion proof
Class 1, Div. 1, Groups B, C, D

Ingress Protection
NEMA 4X, IP66

Safety Approvals
CSA/NRTL (US OSHA Certified)

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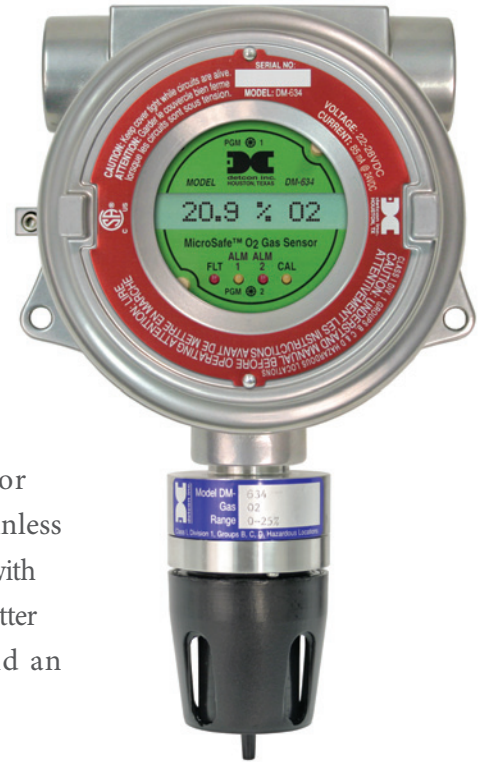Transmitter: 2 year warranty

Dimensions

3/4 NPT

4.0

8

4.3 deep

1/4" Dia.

5.5
6.1

Splashguard 2"H x 2"Dia.

Description

Detcon Model DM-634 sensors are non-intrusive "Smart" sensors designed to monitor ambient air for concentrations of Oxygen in the range 0-25% by volume. The sensor assembly consists of a sensor in a stainless steel housing that includes a splashguard with integral cal port, a plug-in control transmitter circuit, a base connector board and an explosion proof enclosure.

Features

▷ CSA-NRTL Approved: Class I, Division 1, Groups B, C, & D
▷ Compatible with PLCs, SCADA, DCS, via 4-20 mA, and/or RS-485, and/or alarm relays
▷ Sensor status and parameters accessible via RS-485 (Modbus™)
▷ Menu programmable relays standard (two alarms plus fault)
▷ Simple menu driven calibration - takes less than 3 minutes
▷ Backlit LCD, and LED indicators for Fault, and Cal status
▷ Plug-in field-replaceable 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 966-344520-025   DM-634 in Aluminum Junction Box
PN 966-34452B-025   DM-634 in Stainless Steel Junction Box

www.detcon.com

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