



Gas & Flame Detection

3M™ Detcon™ MODEL DM-634 Oxygen sensor assembly



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 - 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 966-344520- 025
PN 966-34542B- 025

Model IR-634 in Aluminum Junction Box
Model IR-634 in Stainless Steel Junction Box

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ASIA PACIFIC
290 Guiqiao Road
Pudong, Shanghai 201206
People's Republic of China
Tel.: +86-21-3127-6373
Fax: +86-21-3127-6365

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 I, Division 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

