



**ISO 9001: 2000**  
Certified

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# Detcon Model DM-634

## Oxygen Sensor

Galvanic Metal Air Battery

(order by part number 966-344510-025)

## Specifications

### Sensor Type

Galvanic metal air battery

### Measurement Range

0-25% Oxygen

### Accuracy/Repeatability

±2% full scale

### Response/Clearing Time

T90 <20 seconds

### Span Drift

<5% of signal per year (in first two years)

### Linearity

± 0.5% FS

### Operating Temperature Range

-4°F to +122°F; -20°C to +50°C

### Operating Humidity Range

0-99% RH non-condensing

### Outputs

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

### Input Voltage

22.5-28 VDC

### Power Consumption

<2.1 watts @ 24 VDC

### Electrical Classification

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

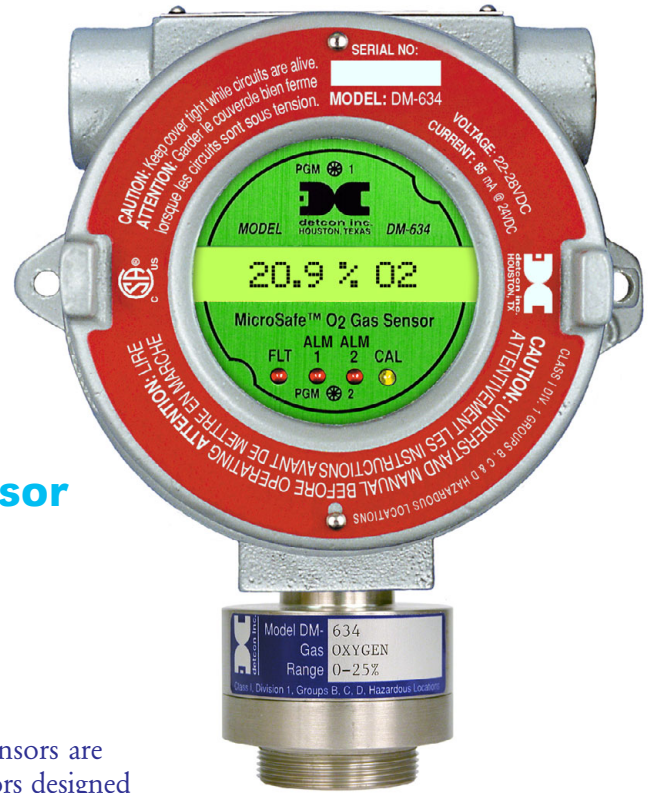
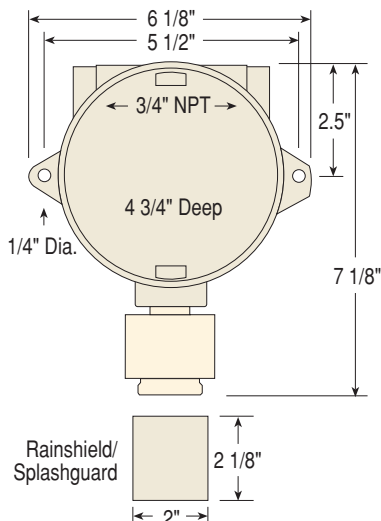
### Safety Approvals

CSA/NRTL (US OSHA Certified)

### Sensor Life/Warranty

Sensor: 2 year expected life  
Sensor: 2 year warranty  
Transmitter: 2 year warranty

## Dimensions



## MicroSafe™ Intelligent Sensor

“RS-485 Addressable”

## 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, 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, or a variety of host controllers 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 sensor
- ☞ Plug-in field-replaceable transmitter
- ☞ Embedded temperature compensation provides direct correction to changes in ambient temperature
- ☞ 2-year expected sensor life in air with 20.9% Oxygen

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