



ISO 9001:2008
Certified

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SPECIFICATIONS

Sensor Type
Electrochemical Fuel Cell

Measurement Range
0-100 ppm Ethylene
Other ranges available

Repeatability
±2% FS

Response/Clearing Time
T90 <140 seconds

Span Drift
<5% signal loss per year

Operating Temperature Range
-20°C to +50°C; -4°F to +122°F

Operating Humidity Range
15-90% RH non-condensing

Output
Linear 4-20 mA DC

Input Voltage
11.5-28 VDC

Power Consumption
1.6 watts @ 24 VDC

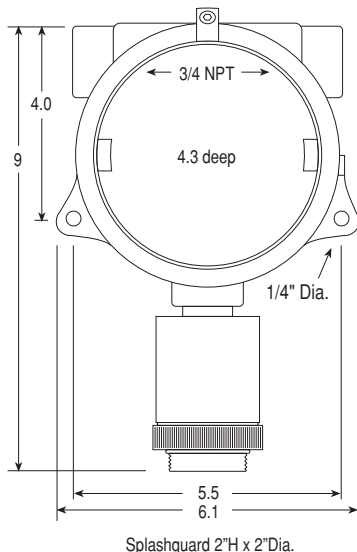
Electrical Classification
Explosion proof
Class 1, Div. 1, Groups B, C, D

Ingress Protection
NEMA 4X, IP66

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

Safety Approvals
CSA/NRTL (US OSHA Certified)

DIMENSIONS



MODEL DM-500-C2H4

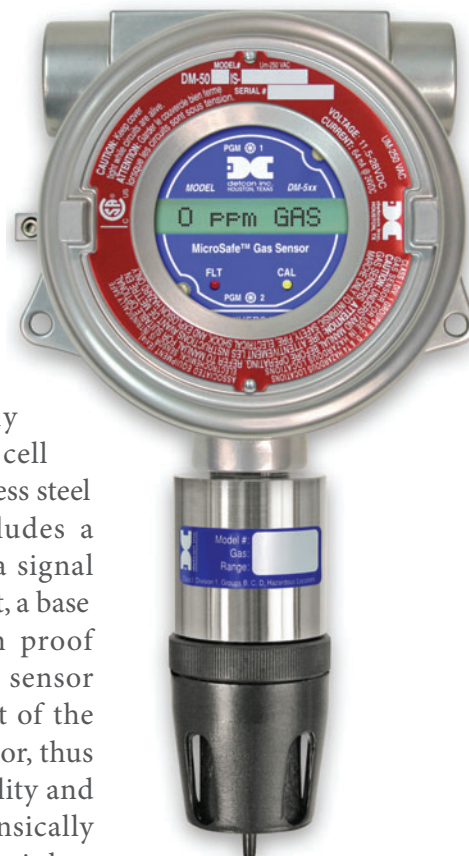
ETHYLENE SENSOR ASSEMBLY

Electrochemical Fuel Cell

MicroSafe™ Intelligent Sensor

DESCRIPTION

Detcon Model DM-500IS-C2H4 sensor is designed to detect and monitor C2H4 in air over the range 0-100 ppm. The sensor assembly consists of an electrochemical fuel cell mounted in an Intrinsically Safe stainless steel and ABS plastic 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. The Intrinsically Safe sensor housing design allows direct contact of the target gas to the electrochemical sensor, thus maximizing response time, detectability and repeatability. And because the Intrinsically Safe housing design does not use a stainless steel flame arrestor, it eliminates inaccurate readings due to target gas absorption.



FEATURES

- ▷ CSA and UL Approved: Class 1, Div. 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
- ▷ Universal plug-in transmitter
- ▷ Intrinsically Safe Sensor Housing
- ▷ Plug-in field-replaceable transmitter
- ▷ Electrochemical plug-in sensor

ORDER GUIDE*

PN 965-12ED80-100 DM-500IS-C2H4 in Aluminum Junction Box
PN 965-12ED8B-100 DM-500IS-C2H4 in Stainless Steel Junction Box

*Ethylene sensors are not suitable for fruit ripening applications and warranty is not offered for this type of application.

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