



ISO 9001:2008
Certified

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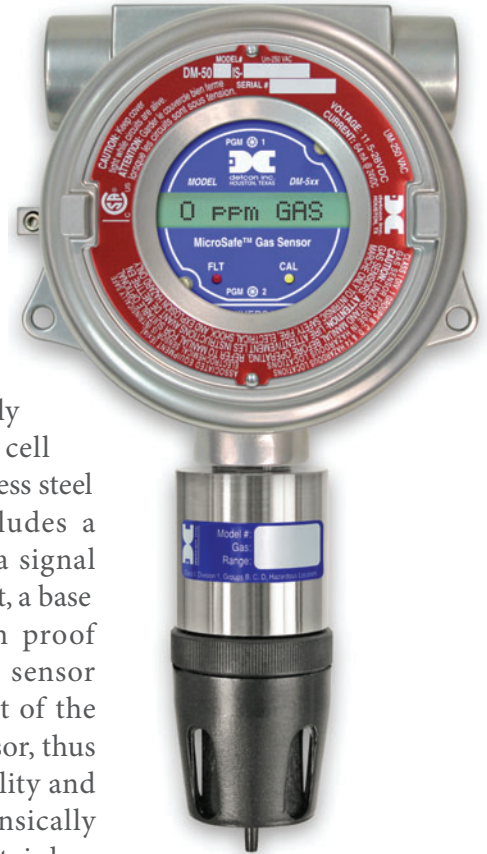
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MODEL DM-500-C2H5SH

ETHYL MERCAPTAN SENSOR ASSEMBLY

Electrochemical Fuel Cell

MicroSafe™ Intelligent Sensor



SPECIFICATIONS

Sensor Type

Electrochemical Fuel Cell

Measurement Range

0-100 ppm Ethyl Mercaptan
Other ranges available

Repeatability

±2% FS

Response/Clearing Time

T90 <45 seconds

Span Drift

<2% signal loss per month

Operating Temperature Range

-40°C to +50°C; -40°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)

DESCRIPTION

Detcon Model DM-500IS-C2H5SH sensor is designed to detect and monitor C2H5SH 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

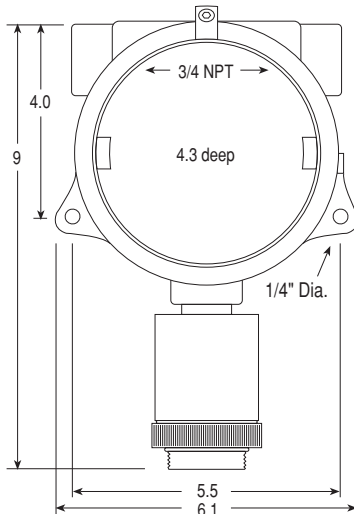
PN 965-24EZ80-100

DM-500IS-C2H5SH in Aluminum Junction Box

PN 965-24EZ8B-100

DM-500IS-C2H5SH in Stainless Steel Junction Box

DIMENSIONS



Splashguard 2"H x 2"Dia.

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R053112