Model FP-524HT
Combustible Gas Sensor (High Temperature Version)

Transmitter

Sensor

Specifications

Sensor Type
Matched-pair catalytic bead

Measurement Range
0-100% LEL (lower explosive limit)
Combustible Gas

Accuracy/Repeatability
±3% 0-50% LEL
±5% 50-100% LEL

Response/Clearing Time
T50 <10 seconds
T90 <30 seconds

Zero Drift
<5% per year

Operating Temperature Range
Sensor: -40°F to +300°F; -40°C to +150°C
Transmitter: -40°F to +167°F; -40°C to +75°C

Operating Humidity Range
0-99% RH non-condensing

Outputs
Linear 4-20 mA DC

Input Voltage
11.5-28 VDC

Power Consumption
1.9 watts @ 24 VDC

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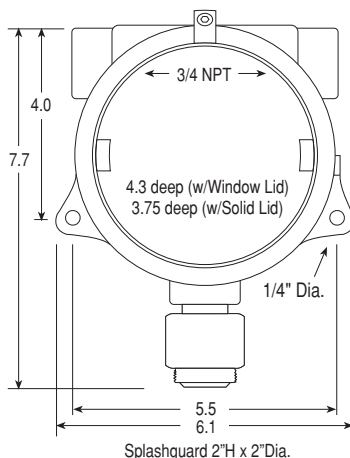Explosion proof
Class I, Division 1, Groups B, C, D

Ingress Protection
NEMA 4X, IP66

Sensor Life/Warranty
Sensor: 1 year warranty
Transmitter: 2 year warranty

Dimensions

3/4 NPT

4.0

7.7

4.3 deep (w/Window Lid)
3.75 deep (w/Solid Lid)

1/4" Dia.

5.5
6.1

Splashguard 2"H x 2"Dia.

Matched Pair Catalytic Bead
MicroSafe Intelligent Sensor

Description

Detcon Model FP-524HT sensors are non-intrusive "Smart" sensors designed to detect and monitor combustible gas in air over the range of 0-100% LEL (lower explosive limit). The sensor assembly consists of a matched-pair catalytic bead 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. This sensor assembly is specifically designed for high temperature applications wherein the sensor can be mounted in high temperature areas while the transmitter is installed outside the area using a sensor separation kit.

Features

▷ High Temperature sensor head rated for 150°C operation
▷ Simple menu driven calibration - takes less than 3 minutes
▷ LED display and LED indicators for FAULT, ALARM 1, ALARM 2 and CAL status
▷ Plug-in field-replaceable transmitter and sensor
▷ Long sensor life expectancy: averaging longer than five years in harsh offshore drilling/production environment
▷ High resistance to poisons such as sulfides, chlorides, silicon-based contaminants etc.
▷ Low power consumption (less than 3.5 watts versus 8+ watts on competitive brands)

Order Guide

PN 965-535420-100   Model FP-524HT in Aluminum Junction Box
PN 965-53542B-100   Model FP-524HT-316SS in Stainless Steel Junction Box

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