



Detcon Model FP-624C

ISO 9001
Certified

Combustible Gas Sensor

Matched Pair Catalytic Bead

(order by part number 966-524510-100)

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

-40°F to +167°F; -40°C to +75°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

3.1 watts max @ 24 VDC

Electrical Classification

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

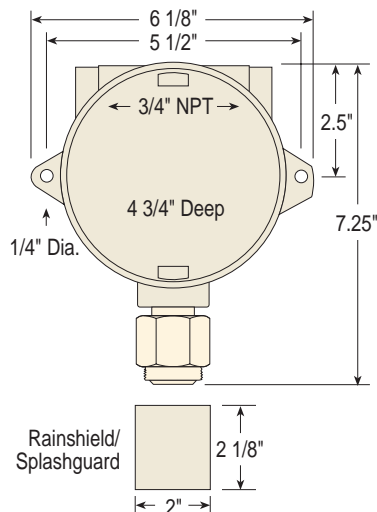
Safety Approvals

CSA/NRTL (US OSHA Certified)

Sensor Life/Warranty

Sensor: 2 year warranty
Transmitter: 2 year warranty

Dimensions



MicroSafe™ Intelligent Sensor

“RS-485 Addressable”

Description

Detcon Model FP-624C 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, 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 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)