



**ISO 9001: 2000**  
Certified

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# Detcon Model FP-624C

## Combustible Gas Sensor

Matched Pair Catalytic Bead

(order by part number 966-524520-100)



## 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

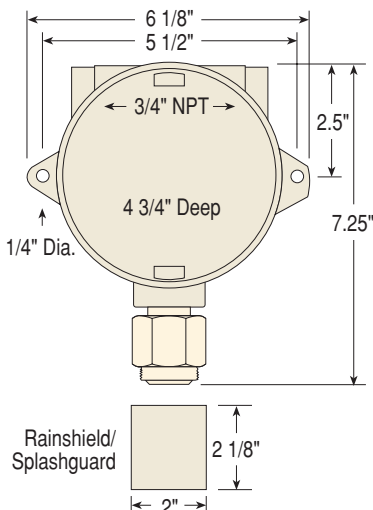
### Safety Approvals

CSA and UL Approved

### 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 and UL 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)

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