



# Detcon MODEL FP-524D

## COMBUSTIBLE GAS SENSOR

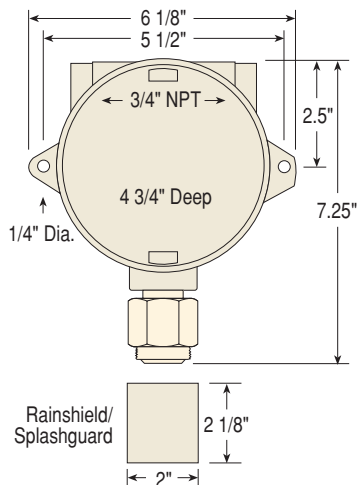
ISO 9001:2008  
Certified

888-367-4286  
713-559-9200  
fax 281-292-2860  
www.detcon.com  
sales@detcon.com

### 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  
HART
- Input Voltage**  
11.5-28 VDC
- Power Consumption**  
2.0 watts @ 24 VDC
- Electrical Classification**  
Explosion proof  
Class I, Division 1, Groups B, C, D
- Safety Approval**  
CSA (pending)
- Performance Approval**  
CSA 15.2
- Sensor Life/Warranty**  
Sensor: 2 year warranty  
Transmitter: 2 year warranty

### DIMENSIONS



### Matched Pair Catalytic Bead

### MicroSafe™ Intelligent Sensor

### DESCRIPTION

Detcon Model FP-524D 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 transmitter features an advanced universal design that fits all existing Detcon matched-pair catalytic bead sensors dating back more than 20 years. 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

- ▶ Performance Certified to CSA 15.2
- ▶ CSA (pending) for Class I, Division 1, Groups B, C, & D
- ▶ Advanced Universal Transmitter design:  
fits all existing Detcon Catalytic Bead Sensors dating back 20 years
- ▶ Simple menu driven calibration - less than 3 minutes
- ▶ LED display and LED indicators for FAULT and CAL status
- ▶ Plug-in field-replaceable transmitter
- ▶ Long sensor life expectancy:  
averaging longer than five years in harsh offshore drilling/production environments
- ▶ 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)
- ▶ Extensive Fault diagnostics

### ORDER GUIDE

- PN 965-525420-100 Model FP-524D in Aluminum Junction Box
- PN 965-52542B-100 Model FP-524D-316SS in Stainless Steel Junction Box

[www.detcon.com](http://www.detcon.com)