



**ISO 9001: 2000**  
Certified

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# Detcon Model TP-424C

## Hydrogen Sulfide Sensor

Solid State MOS

(order by part number 964-015420-100)



## Specifications

### Sensor Type

Solid State Metal Oxide Semiconductor

### Measurement Range

0-20 ppm, 0-50 ppm, 0-100 ppm  
Hydrogen Sulfide

### Accuracy/Repeatability

±10% of reading or ±2 ppm (greater of)

### Response/Clearing Time

T50 <30 seconds  
T80 <60 seconds

### Operating Temperature Range

-40°F to +167°F; -40°C to +75°C

### Operating Humidity Range

15-100% RH non-condensing

### Outputs

Linear 4-20 mA DC

### Input Voltage

11.5-28 VDC

### Power Consumption

<2.5 watts @ 24 VDC

### Electrical Classification

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

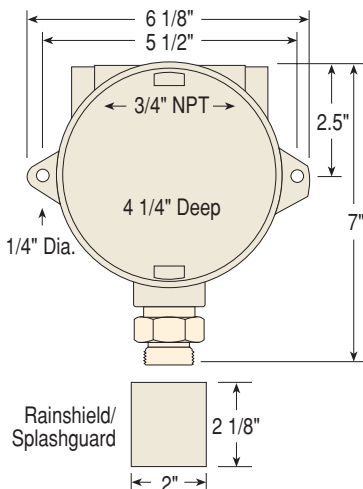
### Safety Approvals

CSA and UL Approved

### Sensor Life/Warranty

Sensor: 10 year conditional warranty  
Transmitter: 2 year warranty

## Dimensions



## Standard 4-20 mA Output

## Description

Detcon Model TP-424C Hydrogen Sulfide sensors are designed to detect and monitor H<sub>2</sub>S in air over the range of 0-100 ppm. The sensor assembly consists of a proprietary solid state metal oxide semiconductor 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
- ☑ Plug-in field-replaceable transmitter
- ☑ Response Characteristics similar to that of electrochemical sensors  
T-50 <30 sec., T-80 <60 sec.
- ☑ VERY wide operating temperature range: -40°F to +175°F
- ☑ 10 year conditional sensor warranty
- ☑ Integral sensor fault diagnostics
- ☑ Direct response constant temperature control
- ☑ Withstands exposure to high range concentrations of H<sub>2</sub>S and other acid gases
- ☑ Impervious to high moisture environments in both powered and non-powered mode

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