



# Hydrogen Sulfide Sensor

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## Solid State MOS

# Model TP-524C

(order by part number 965-015420-100)



## SPECIFICATIONS

### Sensor Type

Solid State Metal Oxide Semiconductor

### Measurement Range

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

### Accuracy/Repeatability

±5% full scale

### Response/Clearing Time

T50 <45 seconds  
T80 <90 seconds

### Operating Temperature Range

-40°F to +167°F; -40°C to +75°C

### Operating Humidity Range

15-95% RH non-condensing

### Outputs

Linear 4-20 mA DC

### Input Voltage

11.5-28 VDC

### Power Consumption

<2 watts @ 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: 10 year conditional warranty  
Transmitter: 2 year warranty

### Shipping Weight

6 lbs.

### Packing Dimensions

12" x 12" x 9"

## MicroSafe™ Intelligent Sensor

## DESCRIPTION

Detcon Model TP-524C, Hydrogen Sulfide sensors are non-intrusive "Smart" sensors 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 semiconductor sensor in a stainless steel housing, a plug-in control transmitter circuit, a base connector board and an explosion proof enclosure.

- ☞ CSA-NRTL Approved: Class I, Division 1, Groups B, C, & D
- ☞ Simple menu driven calibration - takes less than 3 minutes to perform
- ☞ Backlit LCD and LED indicators for FAULT and CAL status
- ☞ Plug-in field-replaceable transmitter and sensor
- ☞ Response Characteristics equal to that of electrochemical sensors  
T-50 <45 sec., T-80 < 90 sec.
- ☞ VERY wide operating temperature range: -40°F to +175°F
- ☞ 10 year conditional sensor warranty
- ☞ 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

