



ISO 9001: 2000
Certified

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Detcon Model TP-624C

Hydrogen Sulfide Sensor

Solid State MOS

(order by part number 966-014520-100)

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
RS-485 Modbus™
3 Relays (alarm 1, alarm 2, & fault)
Contacts rated 5 amps

Input Voltage

22.5-28 VDC

Power Consumption

<3 watts @ 24 VDC

Electrical Classification

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

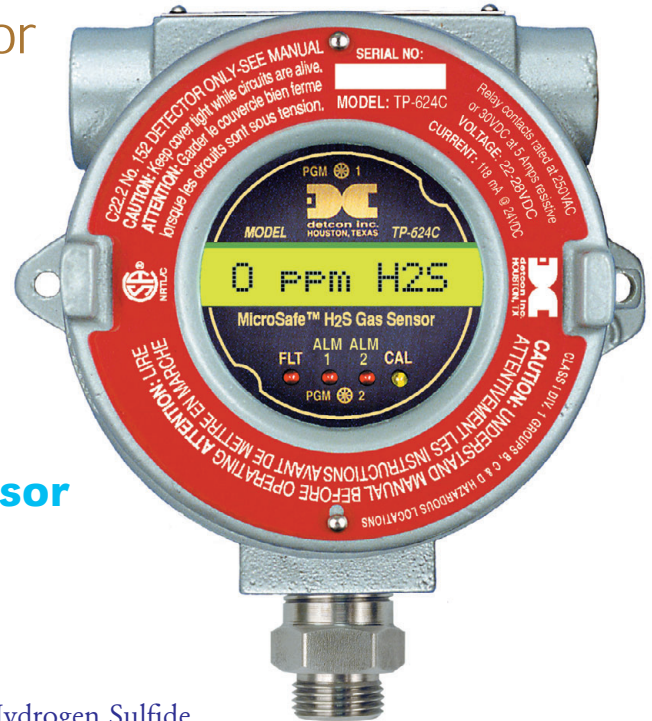
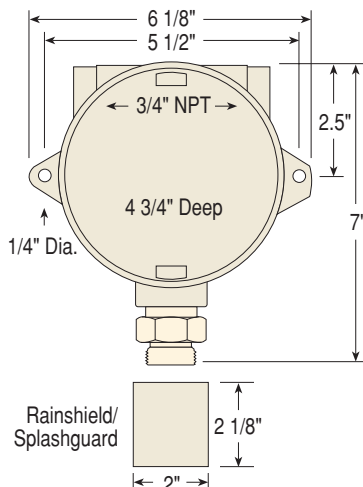
Safety Approvals

CSA and UL Approved

Sensor Life/Warranty

Sensor: 10 year conditional warranty
Transmitter: 2 year warranty

Dimensions



MicroSafe™ Intelligent Sensor

“RS-485 Addressable”

Description

Detcon Model TP-624C Hydrogen Sulfide sensors are non-intrusive “Smart” sensors designed to detect and monitor H₂S 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
- ☑ 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
- ☑ 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
- ☑ Direct response constant temperature control
- ☑ Withstands exposure to high range concentrations of H₂S and other acid gases
- ☑ Impervious to high moisture environments in both powered and non-powered mode

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