



# Detcon Model TP-700

ISO 9001: 2000  
Certified

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## Specifications

### Sensor Type

Solid State Metal Oxide Semiconductor

### Measurement Range

0-20 ppm, 0-50 ppm, 0-100 ppm

### 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

5-100% RH non-condensing

### Outputs

Linear 4-20 mA DC

RS-485 MODBUS-RTU

### Input Voltage

11.5-28 VDC

### Power Consumption

<2 1/2 watts @ 24 VDC

### Electrical Classification

Explosion proof

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

Class I, Zone 1, Group IIB+H2 (ATEX)

### Safety Approvals

cCSAus, ATEX

SIL2 FMEDA Rating

### Sensor Life/Warranty

Sensor - 10 year conditional

Transmitter 2 Years

### Dimensions

7" High x 2 1/8" Diameter (sensor only)

## Hydrogen Sulfide Sensor

### Solid State MOS

(shown as PN 967-014520-100 in SS junction box)



## Description

Detcon Model TP-700 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 metal oxide semiconductor in an electropolished 316SS housing, an encapsulated Intelligent Transmitter Module, and sensor splashguard with integral cal port. Operator interface is via a small handheld magnet. One of the main features is the embedded intuitive software that guides the user through routine calibration and configuration menus using a built-in LED alpha/numeric display.

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



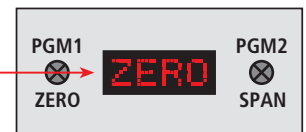
## Features

### Failsafe User-Friendly Interface

- ▶ LED Display (With Antiglare Cover)
- ▶ Full Text Display Method
- ▶ Non-intrusive Interface
- ▶ Auto Zero/Auto Span
- ▶ Pre-emptive Fault Diagnostics

(Input Voltage Range, Operating Temperature Range, Detector Signal Amplitude, Output Signal Loop Integrity)

- ▶ Scrolling Full Message/Text Display



### Environmentally Bulletproof

- ▶ Electropolished 316SS Construction
- ▶ 100% Epoxy Encapsulated Circuitry
- ▶ Bullet-Proof I/O Protection (Over-voltage, Miswiring, EMI/RFI Immunity)
- ▶ Water-Proof, Corrosion-Proof, Vibration-Proof

### Modular and Serviceable

- ▶ Modular Design
- ▶ Plug and Play Components
- ▶ Quick Thread Release (For Sensor Replacement)
- ▶ Integral Calibration Port

### Order Guide Specify junction box options (below)

- ▶ Part Number Description
- ▶ 967-015520-100 TP-700 Sensor Assembly (no junction box)
- ▶ 967-011520-100 TP-700 Sensor Assembly with Aluminum Junction Box
- ▶ 967-014520-100 TP-700 Sensor Assembly with 316 SS Junction Box

### Accessory Modules

- ▶ Remote Control/Alarm Relay Module
- ▶ Hart Integration Module
- ▶ Profibus Integration Module
- ▶ Foundation Fieldbus Integration Module
- ▶ Wireless Integration Module