



Detcon Model DM-700-H2S

ISO 9001
Certified

888-367-4286
281-367-4100
fax 281-292-2860
www.detcon.com
sales@detcon.com

Specifications

- Sensor Type**
Electrochemical Fuel Cell
- Measurement Range**
0-100 ppm, Other ranges available
- Accuracy/Repeatability**
±2% FS
- Response/Clearing Time**
T90 ≤30 seconds
- Span Drift**
<2% signal loss per month
- Operating Temperature Range**
-40°C to +50°C; -40°F to +122°F
- Operating Humidity Range**
15-90% 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 (NRTL)
Class I, Zone 1, Group IIC (ATEX)
- Safety Approvals (Pending)**
CSA/NRTL (US OSHA Certified); ATEX
- Sensor Life/Warranty**
Sensor - 2 years; Transmitter 2 Years
- Dimensions**
7" High x 2 1/8" Diameter

Hydrogen Sulfide Sensor

Electrochemical Fuel Cell
(order by part number 967-242490-100)

Description

Detcon Model DM-700-H2S 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 is constructed of electropolished 316SS and consists of two parts – an epoxy-encapsulated universal Intelligent Transmitter Module (ITM), and a plug-in electrochemical cell with intelligent sensor interface. The plug-in intelligent sensor automatically identifies itself to the ITM and allows for seamless field interchangeability. 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

Features (Designed to IEC 61511 and 61508 Functional Safety Standards as a SIL2 Stand-alone Component)

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 with Plug and Play Components
- ▶ Limited Spare Parts (universal Intelligent Transmitter Module with Intelligent Plug-in Sensors)
- ▶ Allows for Sensor Range Change in field
- ▶ Quick Thread Release (For Sensor Replacement)
- ▶ Integral Calibration Port

Failsafe User-Friendly Interface

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



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