



ISO 9001: 2008
Certified

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MODEL 1000-H2S High Range HYDROGEN SULFIDE ANALYZER

DESCRIPTION

Detcon High Range Model 1000-H2S Analyzer is designed to provide continuous, accurate, real-time measurement of hydrogen sulfide gas concentrations in a wide variety of process gas streams. With new technology and design, the High Range Process Analyzer has a measurement range of 0-1,000 ppm with up to 2% standard and up to 5% with additional high range applications packaging. All H2S analyzers in the Model 1000 Series employ Detcon's 3-Electrode Electrochemical sensor element and feature a microprocessor-based signal-conditioning transmitter with local digital display, fault supervision, calibration mode indicator, 4-20mA, alarm relays and an RS-485 serial port. The instrument package is rated (explosion proof) Class 1, Division 1, Groups B, C, D.



FEATURES

- ▶ Continuous Measurement with Superior Uptime
- ▶ Ranges from 0-1,000 ppm to 5% by Volume
- ▶ Readily Field Replaceable Sensors
- ▶ Simple Operation and Field Calibration
- ▶ Standard Outputs: 4-20 mA, RS-485, 3 Relays
- ▶ Class I, Div. 1 Groups B, C, D rated

APPLICATIONS

- ▶ Gas Well Testing & Analysis
- ▶ Gas Well Production Sites
- ▶ Gas Treatment Plants
- ▶ Gas Transmission Custody Transfer Compliance

SPECIFICATIONS

Sensor Type

3-Electrode Electrochemical

Measurement Range - High Range

0-1,000 ppm
0-2%
0-5%
Other ranges available on request

Accuracy/Repeatability

±10% of reading
or ±2.5% of range
whichever is greater

Response/Clearing Time

T50 <30 seconds
T90 <1 minute
Max output to over-range gas: <10 seconds

Operating Temperature Range

-40°F to +122°F; -40°C to +50°C

Operating Pressure Requirements

Inlet: 10 ±2 psig
Vent: Atmospheric ±1 psig

Outputs

Linear 4-20 mA DC
RS-485 Modbus™
3 Relays (alarm 1, alarm 2, & fault)
Contacts rated 5 amps

Power Input

117/220 VAC
18-36 VDC

Electrical Classification

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

Warranty

Sensor: 2 year
Transmitter: 2 year

Analyzer Weight

80 lbs.

Shipping Weight

140 lbs

Dimensions

29" x 29" x 8"

ORDERING INFORMATION

Detcon requires that an application data sheet be completed and submitted to the engineering department prior to quotation and or order confirmation. This process assures that each customer's use of Detcon Model Series 1000 analyzers is reviewed and approached with confidence that the product will perform as specified.

The analyzer application data sheet can be accessed on line at www.detcon.com or you may request a copy by contacting sales@detcon.com via email.

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