



3M™ Detcon™ Model 1000 H₂S

Hydrogen Sulfide Analyzer

Description

Detcon 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 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 for Non-Hazardous areas.

Features

- Continuous Measurement with Superior Uptime
- Ranges from 0-1,000 ppm up to 5% by Volume
- Readily Field Replaceable Sensors
- Simple Operation and Field Calibration
- Standard Outputs: 4-20 mA, RS-485, 3 Relays
- Non-Hazardous Areas rated

Applications

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

3M™ Detcon™ Model 1000 H₂S

Hydrogen Sulfide Analyzer

Description

Sensor Type

3-Electrode Electrochemical

Measurement Range

Low Range

0-1,000 ppm

0-2%

High Range

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

Non-Hazardous Areas

Warranty

Sensor: 6 months

Transmitter: 2 year

Analyzer Weight

80 lbs.

Shipping Weight

140 lbs

Dimensions

29" x 29" x 8"

Ordering Information

Gas cylinder and gas cylinder regulator sold separately

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 by contacting sales@detcon.com via email.



Americas Texas (USA)

4055 Technology Forest
Blvd. The Woodlands,
TX 77381
Tel.: +1-800-247-7257
Fax: +1-281-292-2860

EMEA

ZI Est, Rue Orfila,
CS 20417
62027 ARRAS CEDEX, France
Tel.: +33-3-21-60-80-80
Fax: +33-3-21-60-80-00

Asia Pacific

290 Guiqiao Road
Pudong, Shanghai 201206
People's Republic of China
Tel.: +86-21-3127-6373
Fax: +86-21-3127-6365