



Model 1000-H2S

Hydrogen Sulfide
Process Analyzer

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Electrochemical Sensor Technology

APPLICATIONS

- Natural Gas Pipelines
- Tail Gas Lines
- SRU Overhead Gas Lines

SPECIFICATIONS

Sensor Type

3-Electrode Electrochemical

Measurement Range

0-10 ppm up to 0-100ppm

Higher 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

22-24 VDC

Electrical Classification

Explosion proof

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

Sensor Life/Warranty

Sensor: 2 year

Transmitter: 2 year warranty

Analyzer Weight

80 lbs.

Shipping Weight

140 lbs

Dimensions

29" x 29" x 8"

NOTE: Sample conditioning requirements are handled separately.



DESCRIPTION

Detcon Model series 1000-H2S process analyzers provide continuous, real-time measurement of H2S concentrations in natural gas pipelines, tail gas lines, SRU overhead gas lines, as well as other applications. Available ranges are from 0-10 ppm up to 0-100 ppm. Higher ranges are available on request. The system can be provided with manual calibration or with microprocessor-controlled automatic calibration. This design employs Detcon's 3-Electrode Electrochemical sensor element with a 2-year conditional warranty. The analyzer features a microprocessor-based signal-conditioning transmitter with local digital display, fault supervision, calibration mode indicator, alarm relays and an RS-485 serial port. The instrument package is rated for use in electrically classified areas: Class I; Division 1; Groups B, C, and D. Line power, battery and solar powered models are available.