



ISO 9001: 2000
Certified

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Model 1000-H2S-CO2

Hydrogen Sulfide
Carbon Dioxide
Process Analyzer

Applications

- ☞ Natural Gas Pipelines
- ☞ Custodial Transfer Checking
- ☞ Natural Gas Production
- ☞ Amine and Caustic Treaters

Specifications

Sensor Type

Solid state MOS for H2S
Non-dispersive Infrared for CO2

Measurement Range

0-10 ppm up to 0-10,000 ppm for H2S
0-0.3/1.0/3.0/5.0%/10%/25%/50%/100% for CO2

Accuracy/Repeatability

The greater of: $\pm 10\%$ of reading
or $\pm 2.5\%$ of range

Response/Clearing Time

T50 <90 seconds, T80 <4 minutes for H2S
Max output to over-range gas: <10 seconds
T50 <30 seconds, T80 <60 seconds for CO2

Operating Temperature Range

-40°F to +167°F; -40°C to +75°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 I, Division 1, Groups C, D

Sensor Life/Warranty

Sensor: 10 year H2S
5 year CO2 conditional
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 1000-H2S/CO2 dual process analyzers provide simultaneous and continuous measurement of both H2S and CO2 concentrations. Available ranges for H2S are from 0-10 ppm up to 0-10,000 ppm. Available ranges for CO2 are from 0-0.3% up to 0-100%. CO2 detection is made using Detcon's sub-miniature NDIR optical sensor element with a five-year conditional warranty. H2S detection is made using Detcon's proprietary solid-state MOS H2S sensor element with a 10-year conditional warranty. The analyzer features a microprocessor-based signal-conditioning transmitters 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 C, and D. Line power, battery and solar powered models are available.