

Laboratory H₂S Analyzer

Gas Analyzer | Series 150-Lab



Product Features

- Specific to H₂S only. No 'false positives', ever
- Conformity to ASTM methods
- Accurate to single digit PPB, up to PPM levels
- Automatic zero without zero gas
- Bench top packaging
- Compact (10" x 12" x 6") and lightweight (10 lbs)
- Rugged built analyzer system
- Data Logger for data download to PC (optional)
- Internal sample pump (optional)
- Calibrations rarely required
- Fault Diagnostics
- Remote monitoring/control of analyzer (optional)

Applications

- Rapid hydrogen sulfide specific analysis
- Testing laboratories
- Ambient air measurements (optional internal pump)
- Oil field operations
- Unbeatable accuracy
- Rugged built analyzer system
- Remote & Web based control of analyzer

Product Description

The Series 150-Lab analyzer is a bench-top laboratory gas analyzer capable of high precision measurements in the low ppb to high ppm ranges. The gas analyzer features a cost-effective analysis method for process control, air quality, laboratory, and product quality purposes. The analyzer is accurate, dependable, and low maintenance.

The analyzer features the only detection technology capable of measuring hydrogen sulfide without interference or 'false positives' from other components. The microprocessor-based technology provides analysis based on the specific and interference free ASTM approved tape detection of operation.

Analysis is a quick procedure requiring only one push button for analysis. The user first connects the prepared sample to the analyzer through an 1/8th" tube fitting. An optional Sample Cylinder with regulator is available for high pressure applications. Next, the user presses START on the analyzer's keypad. The rest of the analysis is automatic: The sample is quickly analyzed by the H₂S specific detector (no cross-interference) for quantitative analysis in ppb or ppm. The analysis time is quick (typically 5 to 10 minutes) without compromising precision. Tape rolls will last several months with continuous operation. The detector principle of operation is described in various ASTM methods include D4084-82, D4468-85, and D4045-81.

The principle of operation is described in various ASTM methods include D4084-82, D4468-85, and D4045-81. The rateometric-colorimetric tape detector offered by ASI is the only H₂S detection method that is practically free from cross-interference. The analyzer will not suffer from "false positives" like other H₂S analyzer methods. Users demand Analytical System Keco's H₂S analyzer due to its precision, simplicity and reliability proven by thousands of worldwide installations around the globe.





Typical Specifications

DISPLAY

- Alpha Numeric LCD
- 128 x 64 pixel

TEMPERATURE RANGES

- 5°C to 50°C (operating)
- 0°C to 70°C (storage)

ANALOG

- Isolated 4-20mA

ANALYTICAL PERFORMANCE

- Resolution: 1 ppb
- Accuracy: $\pm 2\%$
- Repeatability: $\pm 1\%$
- Linearity: $\pm 1\%$
- Drift: Nil
- Temp. Coefficient: 0.01% / °C
- Analysis Time: 0.75 Second

DETECTION RANGES

- 0-1 ppm
- 0-50 ppm
- 0-500 ppm
- Other ranges available (contact factory)

BATTERY PACK (OPTIONAL)

- Operate ~8 to 16 hours, fully charged

WEIGHT

- Approx. 10 lbs; 4.5 kg

DIMENSIONS

- 10" X 12" X 6"

POWER OPTIONS ≥ 5 Watts

- 110VAC, 60 Hz
- 220VAC, 50 Hz
- 12VDC
- 24VDC

MAXIMUM PRESSURE

- 100 psig
- Greater with pressure regulator installed

AVAILABLE OPTIONS

- RS-232/485 Modbus protocol
- Internal Sample Pump
- Data Logger for data download to PC
- Remote monitoring/control with PC
- Sample Cylinder for high pressure samples



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