

# Laboratory H<sub>2</sub>S Analyzer

Gas Analyzer | Series 150-Lab



## Product Features

- Specific to H<sub>2</sub>S 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 H<sub>2</sub>S 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 H<sub>2</sub>S detection method that is practically free from cross-interference. The analyzer will not suffer from "false positives" like other H<sub>2</sub>S analyzer methods. Users demand Analytical System Keco's H<sub>2</sub>S analyzer due to its precision, simplicity and reliability proven by thousands of worldwide installations around the globe.



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## 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 $\geq 5$ 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

Analytical Systems Keco provides design and application engineering assistance for the User's analyzer requirements. For a quotation, please complete Analyzer Quote Request Form at [www.LiquidGasAnalyzers.com/quote](http://www.LiquidGasAnalyzers.com/quote)