

H₂S PORTABLE ANALYZER

Continuous Atmospheric or Process Control

SERIES 150



FEATURES

- Completely Portable
- ASTM Approved Methods
- Dual Processors for 100% Analysis and Communication
- Fault Diagnostics
- Cost-Effective
- Battery Pack
- Direct Read LCD
- 18-Bit A/D Converter for Faster Response, Lower Detectable Limits, and Less Tape Consumption
- PPB thru PPM H₂S Level Analysis
- Specific for H₂S Only

Description & Principle of Operation

The Series 150 is a completely portable H₂S analyzer featuring a cost-effective analysis method for process control, air quality and product quality purposes. In addition, this analyzer is accurate, dependable, and low maintenance. The microprocessor-based technology provides continuous on-line analysis based on the specific and interference free lead acetate principle of operation. Maximum versatility is offered with its compact, lightweight (10 lbs), and wide range ability (ppb to 500 ppm) without dilution. The atmospheric or process stream is analyzed for H₂S and a precision flow meter regulates the sample flow. Next, the sample is introduced to the specific lead acetate sensing tape that provides an output proportional to the concentration of H₂S through the photodiode detector and LED light source optical system. This signal is digitized and analyzed by the advanced 18-Bit A/D microprocessor converter and related software resulting in a linear 4-20ma output (optional). The LCD display provides the current reading, any alarm condition, procedure prompts (i.e. calibration procedure), and failure indicators. Quality materials are selected for compatibility and are utilized throughout calibration.

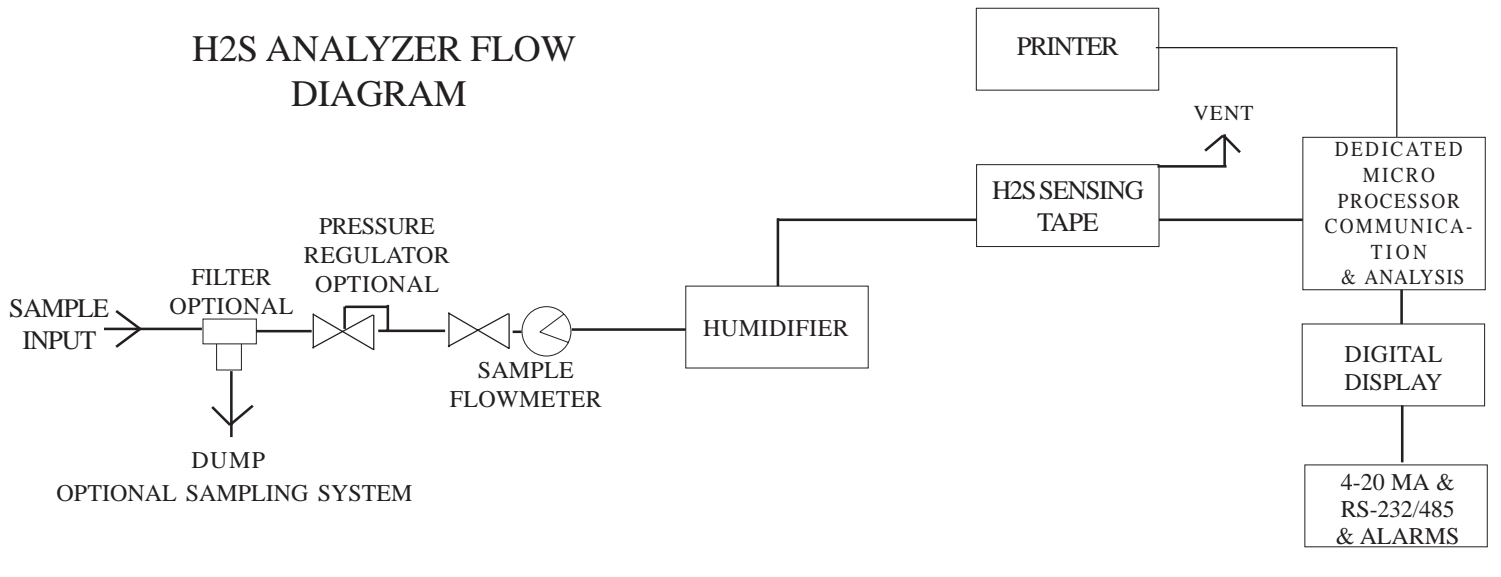
This reliable field proven analyzer system continuously and specifically quantifies the H₂S level in the sample with minimal maintenance. The principle of operation is described in various ASTM methods include D4084-82, D4468-85, and D4045-81.



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H2S ANALYZER FLOW DIAGRAM



SERIES 150 SPECIFICATIONS

POWER INPUT

110/240 VAC 50/60 Hz Battery Pack (optional)

TEMPERATURE

5C to 50C (operating)

0C to 70C (storage)

PERFORMANCE

Range: Customer Specified from ppb thru ppm up to 500 ppm for H₂S

Resolution: 1 ppb

Accuracy: +2% of Full Scale

Repeatability: +1% of Full Scale

Linearity: +1% of Full Scale

Drift: Nil

Temp. Coefficient: .01% / 1/2C

Analysis Time: Less than 1 Second

Interference: None

ANALOG

4 - 20ma Isolate Output (optional)

4 - 20ma Output (optional)

ACCESSORY OPTIONS

Internal Pump

Sample Probe and Regulator

Fugitive Emissions Control

Battery Pack

Carrying Case

RS-232/485

Modem Communications

DISPLAY

Alpha Numeric LCD

Pixel Graphics 128x64

ALARMS (optional)

Solid State 30 ma 24V

Mechanical Relay 5a 220V

Normally Opened / Normally Closed

Diagnostic & Concentration

AREA CLASSIFICATIONS, SIZE, & WEIGHT:

General Purpose Apprx. 10lbs./ 4.5kg

10"H x 12"W x 6"D or

25.4cmH x 30.5cmW x 15.2cmD

Quotation Information:

Analytical Systems International provides design and application engineering assistance for the User's analyzer requirements. For a quotation, please complete ASI Analyzer Quote Request Form at www.ASIWebPage.com

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