

H₂S GAS ANALYZER

CONTINUOUS ON-LINE PROCESS

Series 1200



Explosion Proof - Division I & II

FEATURES

- ASTM Approved Methods
- Automatic self-zero
- Does not suffer from sensor 'drift'
- Dual Processors for 100% Analysis & Communication
- Fault Diagnostics
- Cost-Effective
- Explosion Proof Configuration
- Remote Operation and Access
- 18-Bit A/D Converter with Faster Response, Lower Detectable Limits, and Less Tape Consumption
- Automatic Calibration
- Specific to H₂S Only

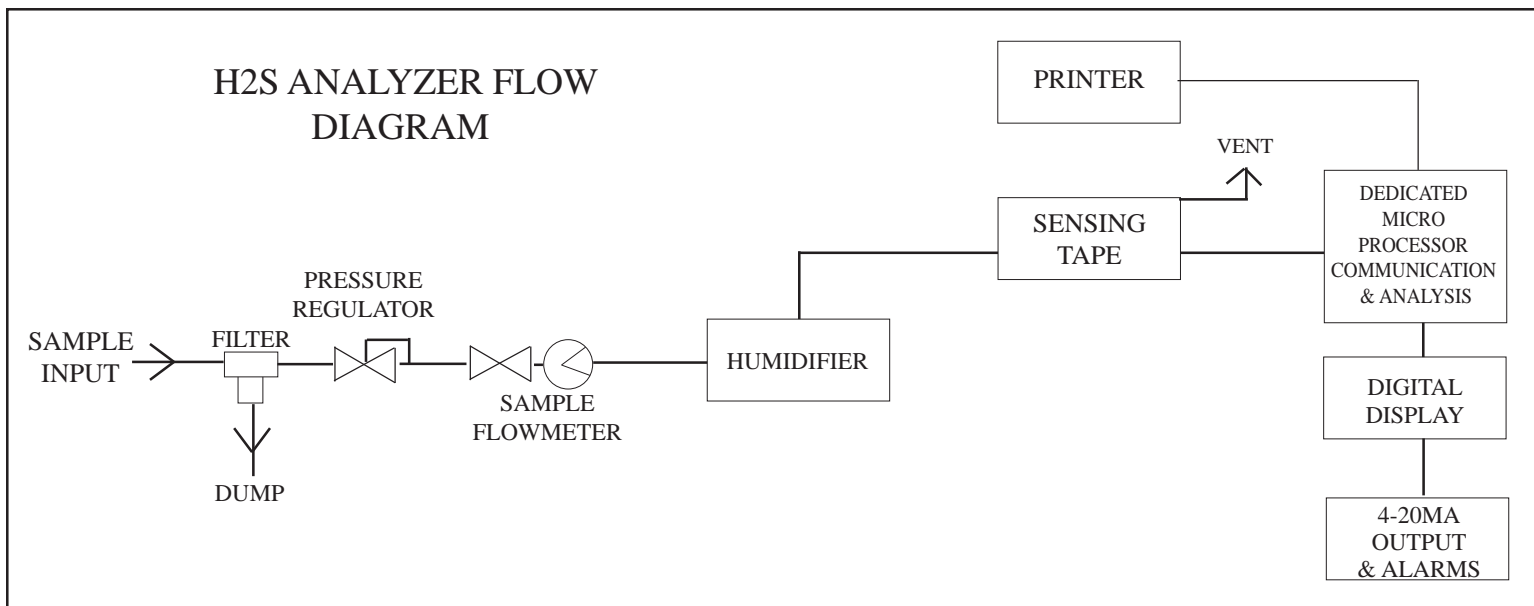
Description & Principle of Operation

The petrochemical, gas processing, and gas pipeline industry has required an accurate and dependable, low maintenance and cost-effective H₂S analyzer for quality and process control purposes. With over twenty years of experience in developing and manufacturing sulfur analyzers and associated parts and supplies, Analytical Systems International (ASI) has met these requirements with our proven microprocessor based analyzer. This ASI analyzer provides continuous on-line analysis based on the specific and interference free lead acetate principle of operation. The process stream to be analyzed for H₂S is regulated to 10 PSI. Then 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 microprocessor and related software resulting in a linear 4-20ma output. 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 the manufacturing process.

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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SERIES 1200 SPECIFICATIONS

POWER INPUT

110/240 VAC 50/60 Hz or 12/24VDC

TEMPERATURE

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

PERFORMANCE

Range: Customer Specified
ppb thru ppm & up to 100% H₂S
Resolution: 1 ppb
Accuracy: $\pm 2\%$ of Full Scale
Repeatability: $\pm 1\%$ of Full Scale
Linearity: $\pm 1\%$ of Full Scale
Drift: Nil
Temp. Coefficient: .01% / Degrees C
Analysis Time: Less Than 1 Second
Interference: None

ALARMS (optional)

Solid State 30ma 24V
Mechanical Relay 5 a 220V
Normally Opened/Normally Closed
Diagnostic & Concentration

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.ASIKECO.com

ACCESSORY OPTIONS

Automatic Calibration
Sample Probe and Regulator
Fugitive Emissions Control
Chart Recorder
Cabinet Heater & Thermostat
Cabinet Stand
Sampling Systems
RS-232/485
Modem Communications

DISPLAY

Alpha Numeric LCD
Pixel Graphics 128 x 64

ANALOG

4 - 20ma Isolated Output (optional)
4-20ma Output (standard)

AREA CLASSIFICATIONS

Class I, Div II or Class I, Div I

DIMENSIONS & WEIGHT

17"H x 19"W x 10"D or
42cmH x 47cmW x 26cmD 50 lbs or 23 kg