

# H<sub>2</sub>S GENERAL PURPOSE ANALYZER

Continuous Tape Method

SERIES 1100



General Purpose

## FEATURES

- **ASTM Approved Methods**
- **Direct Read LCD**
- **Dual Processors for 100% Analysis & Communication**
- **Fault Diagnostics**
- **18-Bit A/D Converter Allows Faster Response, Lower Detectable Limits, and Less Tape Consumption**
- **Cost-Effective**
- **Automatic Calibration**
- **General Purpose Configuration**
- **Specific for H<sub>2</sub>S Only**

## Description & Principle of Operation

The petrochemical, gas processing, and gas pipeline industry has required an accurate and dependable, low maintenance and cost-effective H<sub>2</sub>S 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 their 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 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 H<sub>2</sub>S 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.

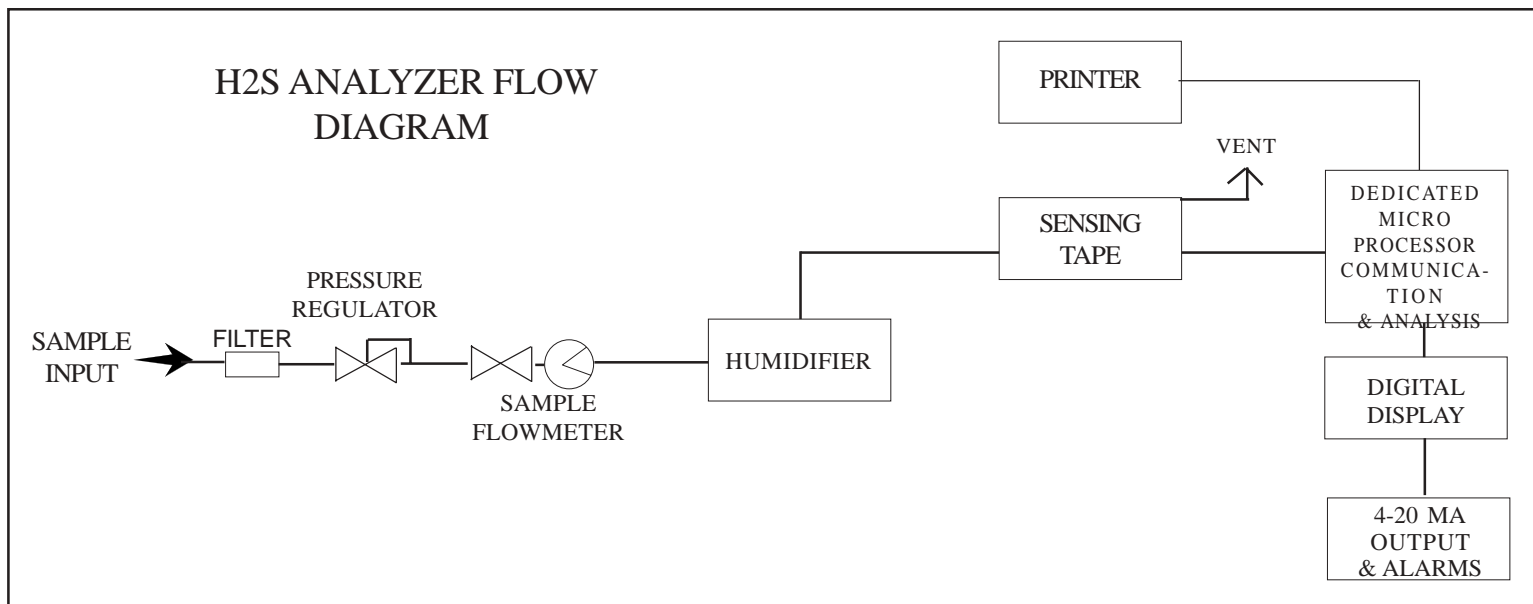
This reliable field proven analyzer system continuously and specifically quantifies the H<sub>2</sub>S level in the sample with minimal maintenance. The principle of operation is described in various ASTM methods include D4084-82, D4468-85, and D4045-81.



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## SERIES 1100 SPECIFICATIONS

### *POWER INPUT-CUSTOMER SPECIFIED*

110/240 VAC, 50/60 Hz or 12/24 DC

### *TEMPERATURE*

-10C to 50C (operating)

-40C to 70C (storage)

### *PERFORMANCE*

Range: Customer Specified

ppb thru ppm & up to 100% H<sub>2</sub>S

Resolution: 1 ppb

Accuracy: +2% of Full Scale

Repeatability: +1% of Full Scale

Linearity: +1% of Full Scale

Drift: Nil

Temp. Coefficient: .01% / deg. C

Analysis Time: Less Than 1 Second

Interference: None

### *DISPLAY*

Alpha Numeric LCD

### *ALARMS*

Diagnostic & Concentration

### *ANALOG*

4-20ma Isolated (optional)

4-20ma (standard)

### *AREA CLASSIFICATIONS*

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Non Explosion Proof

### *DIMENSIONS & WEIGHT*

14"H x 16"W x 8"D or

35.5cmH x 41.9cmW x 20.3 cmD

20 lbs or 9kg appx.

### *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

### **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](http://www.ASIWebPage.com)

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