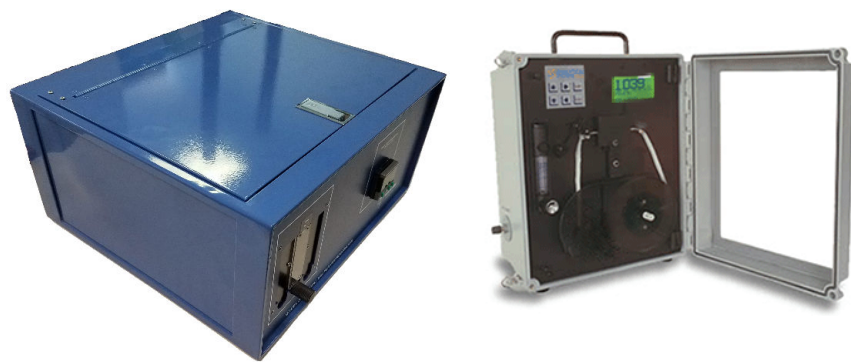


TOTAL SULFUR LABORATORY ANALYZER

Model 856-51 | For liquid and gas samples



Product Features

- ASTM method references
- Specific to sulfurs only. No false positives, ever
- No routine calibrations required
- Quantitative measurement in PPB, PPM & higher
- Direct read LCD display
- Fault Diagnostics option
- Single LED light source & detector
- Requires only 4-6 tape rolls per year

Applications

• Naphtha • Dirty/clean Water • Diesel • Fuel Oil • Drilling Fluid • Condensate • Quality control • Fuel Terminals
• Corrosion control • Transportation safety • Loading/unloading of trucks, railcars, pipelines • Laboratories

Product Description

The petrochemical, gas processing, & gas pipeline industry has for many years required an accurate, dependable, low maintenance, and cost effective sulfur analyzer for quality and laboratory purposes. With over twenty years of experience in developing and manufacturing sulfur analyzers and associated parts and supplies, Analytical Systems International has met these requirements with a unique & proven microprocessor based analyzer, which provides analysis based on the only absolutely specific lead acetate principal of operation. The Model 856-150 system measures H₂S & total sulfur by hydrogenation, similar to that as described in ASTM Method D3031, D4084-82, D4468-85, & 4045-81. The sulfur sample is precisely metered into a continuous flowing stream of hydrogen gas. The sample and hydrogen are heated in the furnace resulting in thermal cracking of the sulfur which are reduced to short chain hydrocarbons. These reactions result in the formation of H₂S. After complete humidification of the sample the H₂S comes in direct contact with the lead acetate tape which produces a darkening of lead sulfide immediately measured by the photodiode/LED optics & rate-of-reaction digital electronics to provide an accurate and reproducible total sulfur and H₂S analysis with PPB or PPM. The LCD display provides the current reading, any alarm condition, procedure prompts (such as calibration procedure), and failure indicators (is offered). Quality materials are selected for their compatibility and are utilized throughout fabrication. Special attention is given to wetted parts that come in contact with the process stream and are selected to be non-reactive with H₂S/Sulfur.



Phone (281) 516-3950 or (281) 664-2890
Sales@asikeco.com | service@asikeco.com

Typical Specifications

DISPLAY

- Alpha Numeric LCD
- 128 x 64 pixel
- Back-lit display

TEMPERATURE RANGES

- 1°C to 50°C (operating)
- 0°C to 70°C (storage)

ANALOG

- 4-20mA Isolated

ANALYTICAL PERFORMANCE

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

DETECTION RANGES

- Customer specified (contact factory)
including low ppb, ppm and percent ranges

ENCLOSURE

- Bench top
- High grade aluminum
- Industrial powder coating

WEIGHT

- ~100 lbs.

DIMENSIONS

- 20" x 22" x 10"

UTILITIES/SETTINGS

- 110VAC or 220VAC
- 50 Watts normal, 350 Watts max.
- Carrier Air/Gas: 180 ml/min (15 psig max)
or none with optional Carrier Air Pump System

AREA CLASSIFICATIONS

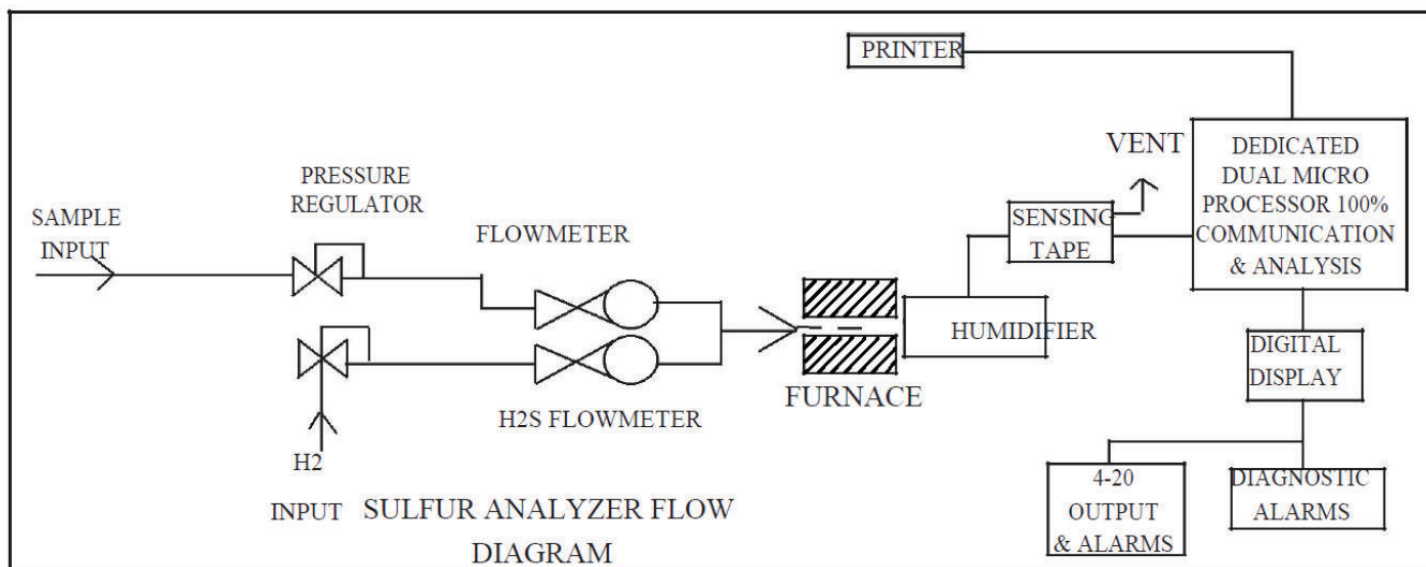
- General purpose for non-hazardous areas
- Laboratory environments

AVAILABLE OPTIONS

- Diagnostic/fault relay alarms
- RS-232/485 Modbus
- Data Logger for data download to PC
- Modem communications

TECHNOLOGIES

- Rateometric-Colorimetric Tape technology



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