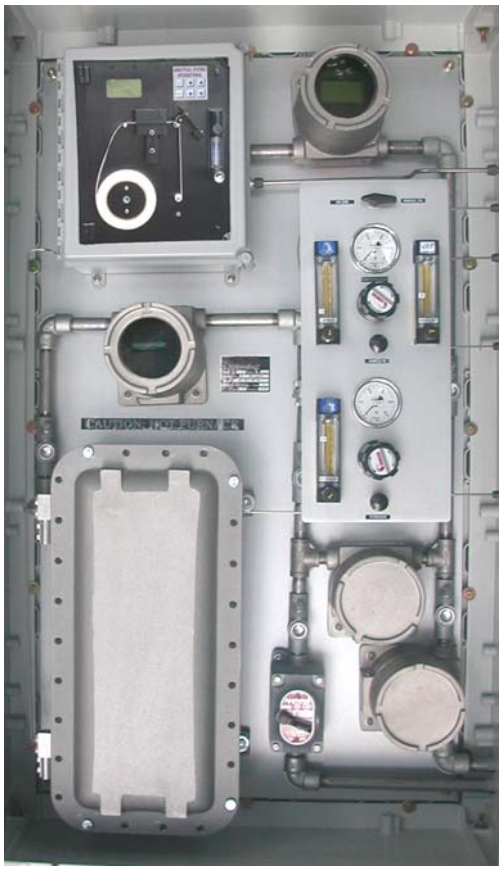
TOTAL SULFUR GAS ANALYZER

CONTINUOUS ON-LINE PROCESS

Series 1700



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 Sulfur Only

Description & Principle of Operation

The petrochemical, gas processing, and gas pipeline industry has required an accurate, dependable, low maintenance, and cost-effective sulfur analyzer for quality and process control purposes. With over twenty-five years of experience in developing and manufacturing sulfur analyzers and associated parts and supplies, Analytical Systems International Keco (ASI KECO) has met these requirements with their proven microprocessor based analyzer. The Model 1700 System measures total sulfur by hydrogenation similar to that as described in ASTM Method D3031, D4084-82, D4468-85 and 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 up to 1,315° C resulting in thermal cracking of the sulfur that are reduced to short chain hydrocarbons. These reactions result in the formation of H_2S. After complete humidification of the sample, the H_2S comes in direct contact with the lead acetate tape and produces a darkening of lead sulfide that is immediately measured by the photodiode/LED optics and rate-of-reaction digital electronics to provide an accurate and reproducible total sulfur analysis with PPB or PPM sensitivity up to 100%. The LCD display provides the current reading, any alarm condition, procedure prompts (i.e., calibration procedure), and failure indicators (local and remote capability). Quality materials are selected for their compatibility and utilized through fabrication. Special attention is given to wetted parts that come in contact with the process stream and are selected to be non-reactive with H_2S/sulfur.

ANALYTICAL SYSTEMS INT'L. KECO

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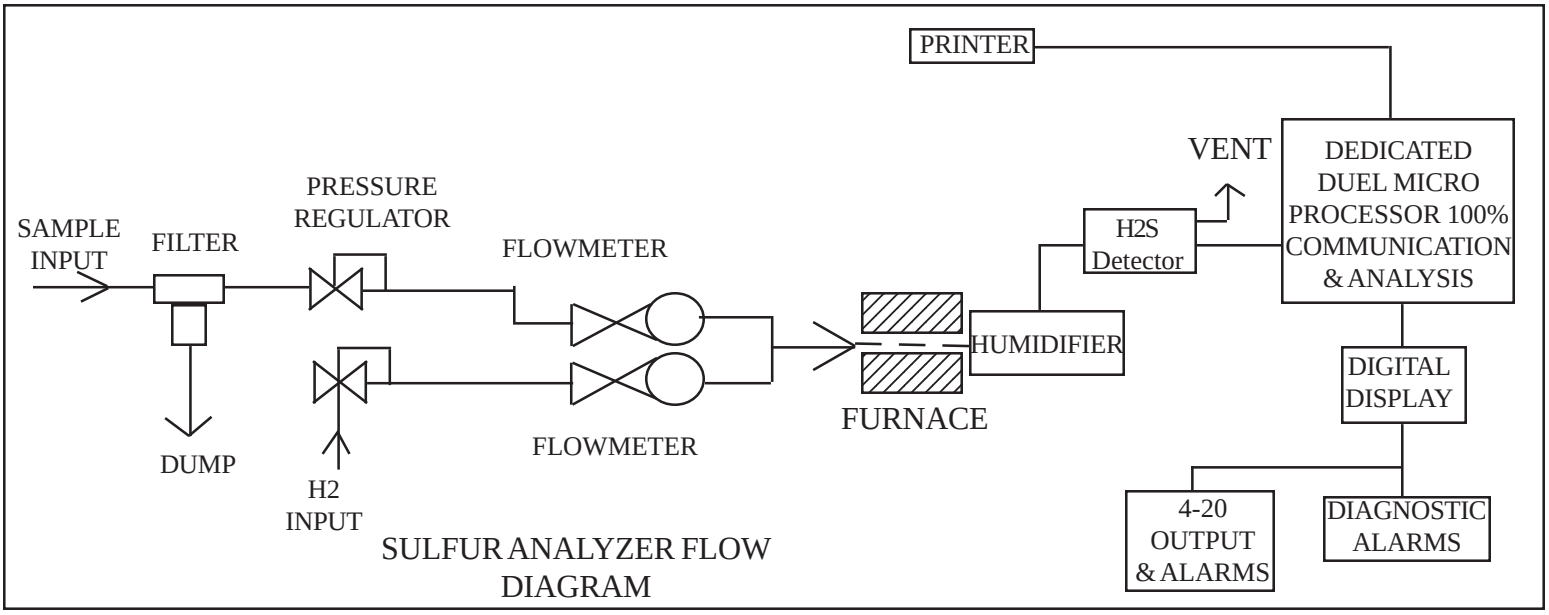

SERIES 1700 SPECIFICATIONS

POWER INPUT (CUSTOMER SPECIFIED)

110/240 VAC 50/60 Hz

TEMPERATURE

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

PERFORMANCE

Range: Customer Specified
ppb thru ppm up to 100% Sulfur
Resolution: 1 ppb
Accuracy: ±2% of Full Scale
Repeatability: ±1% of Full Scale
Linearity: ±1% of Full Scale
Drift: Less than 1% of FS
Temp. Coefficient: .01% / C
Analysis Time: Less Than 1 Second
Interference: None

ALARMS **(Optional)**

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

DISPLAY

Alpha Numeric LCD
Pixel Graphics 128x64

ANALOG

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

AREA CLASSIFICATION OPTIONS

Class I, Div II
Class I, Div I
General Purpose

DIMENSIONS & WEIGHT

30"H x 50"W x 12"D or 76cmH x 127cmW x 30cmD
200 lbs or 90 kg appx.

ACCESSORY OPTIONS

Automatic Calibration
Sample Probe and Regulator
Fugitive Emissions Control
Chart Recorder
Heater & Thermostat
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.asikeco.com