

H₂S IN CRUDE ANALYZER

CONTINUOUS ON-LINE PROCESS

Model 205



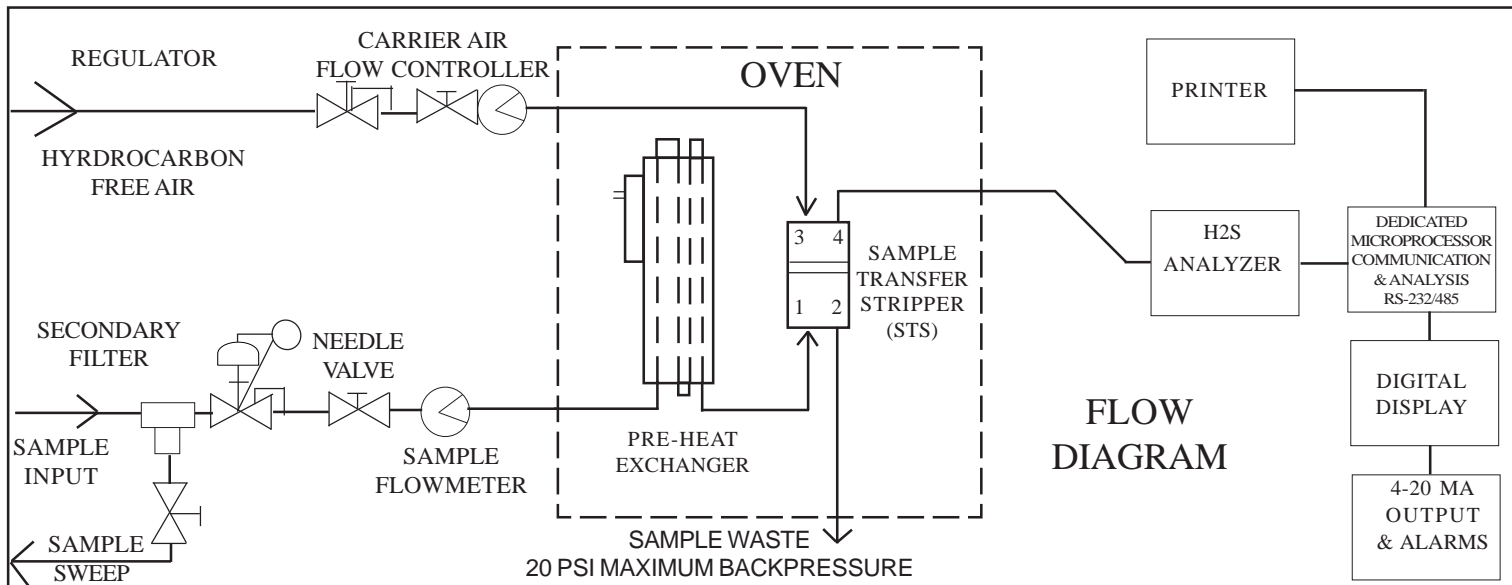
FEATURES - PATENTED & EXCLUSIVE

- **Accurate and Continuous Analysis**
- **Quantitative Measurement of ppb w ppmw thru Saturation Levels**
- **Push Button Validation**
- **4-20mA Output**
- **RS-232/485 Communication**
- **Direct Read LCD**
- **Fast Response Time**
- **Reduced DownTime**
- **General Purpose or Explosion Proof**
- **Specific to H₂S Only**

Description & Principle of Operation

The ability to analytically quantify H₂S in crude oil (light, medium and heavy) is enhanced with the Sample Transfer Stripper (Membrane Technology) and ratiometric colorimetric technologies offered by Analytical Systems International (ASI).

The principle of operation requires a continuous free flowing liquid sample into a heater where the Sample Transfer Stripper (STS) unit separates the liquids (crude) from the H₂S gas sample. An H₂S free air or nitrogen carrier then sweeps the H₂S gas sample to the H₂S analyzer for quantitative analysis in ppb w, ppmw, and up to saturation levels. A liquid validation by Perm Tube TM is optional. The detection technology is based on chemically specific density changes. The lead acetate sensing tape utilized in our analyzers is the only detection method that is absolutely specific to H₂S. Optical illumination & detection are integrated for maximum resolution accuracy. Economic payout is increased because of this automated continuous process or laboratory analyzer.



MODEL 205 SPECIFICATIONS

POWER INPUT:

- 110 VAC 50/60Hz @ 400 Watts.
- 220 VAC 50/60Hz (Optional)

TEMPERATURE:

- Operating: 5C to 50C (Heating Optional)
- Storage: 0C to 70C

ANALYTICAL PERFORMANCE:

(APPLICATION DEPENDENT)

- Range Customer Specified: PPB W Thru PPM W to Saturation (Lower Detectable Limit < 100 PPBW)
- Accuracy: $\pm 2\%$ of Full Scale
- Repeatability: $\pm 1\%$ of Full Scale
- Resolution: 1 PPB
- Linearity: $\pm 1\%$ of Full Scale
- Drift: Nil
- Temp. Coefficient: 0.01% 1 Degrees C
- Analysis Time: 0.7 Seconds (Concentration Dependent)

ACCESSORY OPTIONS:

- Spin Clean Filter w 1 liter/min. sweep
- Type Z Purge, Type X Purge
- Cabinet Heater & Thermostat
- Special Sampling Systems
- Validation System
- Air Purifier For Hydrocarbon Free Carrier

DISPLAY:

- Alpha Numeric LCD

MEMORY / COMPUTER INTERFACE:

- RS-232/485 Serial Port

ANALOG OUTPUT SIGNAL:

- 4-20ma Linearized (standard)
- 4-20ma Isolated Linearized (Optional)

UTILITY GASES:

- Air carrier clean and H₂S free 200 ml/min.
- Air or Nitrogen Purge Supply (Optional)

ALARM CONTACTS (Optional):

- High and Low Concentration Relay
- Diagnostic Trouble Shooting Includes:
- Sample, Air, Purge Flow & Temp. Alarm

AREA CLASSIFICATIONS:

- General Purpose (Standard)
- Purge Class I Div. II or I, GR. B,C,D (Optional)

CABINET DIMENSIONS & WEIGHT:

- Stainless Steel NEMA 4X
- 36" H x 24" W x 10" D
- 90cm H x 60cm W x 26cm DM
- 200 lbs. or 100 Kilograms (Without Options)

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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