

H₂S IN DIESEL ANALYZER

CONTINUOUS ON-LINE PROCESS

Model 205



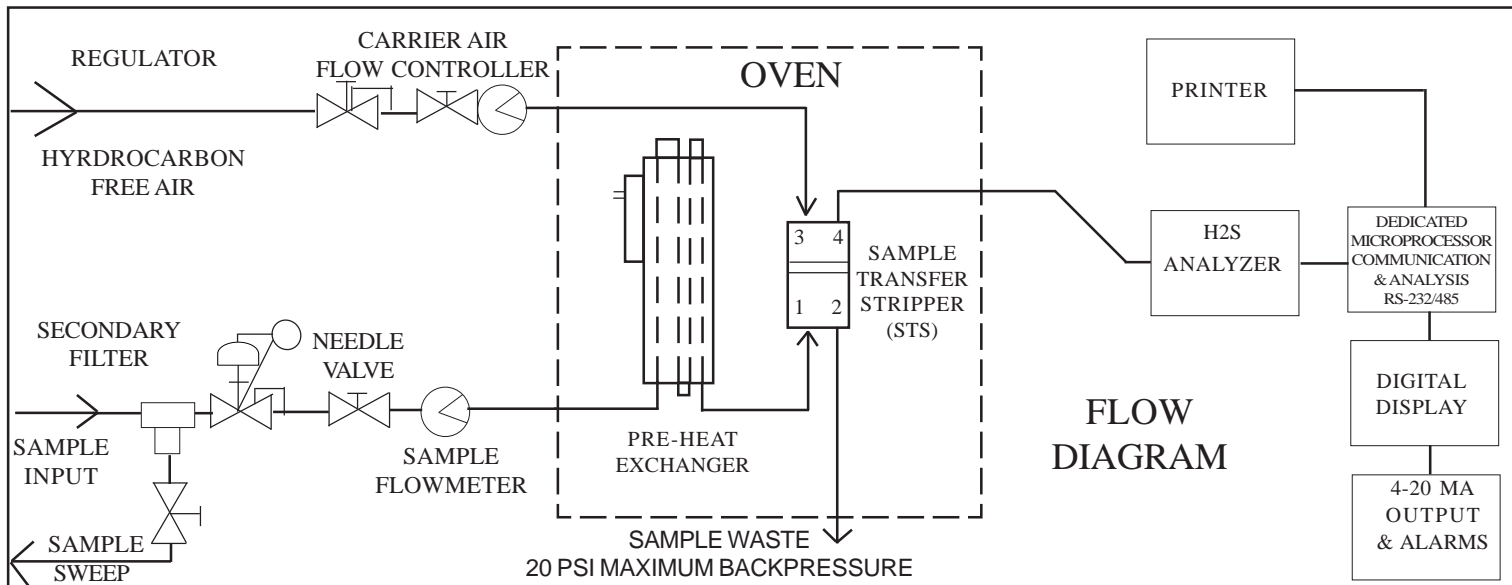
FEATURES - PATENTED & EXCLUSIVE

- **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 diesel 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 PermTube™ 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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