

LABORATORY H₂S ANALYZER

BENCHTOP ANALYSIS OF CRUDE, WATER, FUEL OIL & MORE

Model 205L



FEATURES

- Analysis of Crude Oil, Fuel Oil, Water, Diesel, Gasoline & other liquids
- Quick analysis (10-15 minutes typical)
- Specific only to H₂S - No interferences
- No field calibrations required
- Field-proven reliability & precision
- ASTM approved methods
- Surpasses IP-570/12a with greater precision, faster analysis & H₂S specific
- Direct read LCD with digital graphs
- PPB, PPM & percent level analysis
- 205 awarded 'Preferred Vendor' by Saudi Aramco, Chevron & others
- Small benchtop footprint
- Simple: one push button for analysis

Description & Principle of Operation

The ability to analytically quantify H₂S in liquids such as crude oil, fuel oil, naphtha, water, marine diesel and gasoline are enhanced with the Sample Transfer Stripper™ (STS), exclusive ASI Membrane Technologies and ratiometric colorimetric technology offered by Analytical Systems International.

Analysis is a quick procedure requiring only one push button for analysis. The user first connects the prepared Sample Container to the analyzer. Next, the user presses START on the analyzer's keypad. The rest of the analysis is automatic: The sample is quickly heated and agitated by purging the sample with air. The purging strips the H₂S gas from the liquid sample based in part on Henry's law. Next, the stripped H₂S gas is swept to the STS unit which permeates through the exclusive ASI Membrane Technology. A carrier air on the other side of the membrane then sweeps the H₂S gas sample to the H₂S specific detector (no cross-interferences) for quantitative analysis in ppb, ppm, and up to saturation levels. The STS acts as an ultra-effective filter, blocking any mists or liquid carry-overs. This radically reduces any maintenance requirements which plague analyzers from other manufacturers. The detection technology used in the 205L is based on chemically specific density changes. The advanced Tape detector utilized in our analyzers is the only detection method proven to be specific only to H₂S, proven by thousands of worldwide applications. The analysis time is quick (typically 10-15 minutes) without compromising precision. The detector's principle of operation is described in various ASTM methods include D4084-82, D4468-85, and D4045-81.



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Leading Manufacturer of
Liquid and Gas Analyzers

MODEL 205L SPECIFICATIONS (TYPICAL)

POWER:

- 110 or 240 VAC 50/60 Hz (choose one)
- 250 watts maximum, normal <60 watts

TEMPERATURE:

- 1C to 55C (operating)
- 0C to 70C (storage)

PERFORMANCE (TYPICAL):

- Standard ranges: 0-1, 0-10, 0-100, 0-250 ppm by wt. (mg/L) OR customer specified from ppb thru ppm up to percent levels.
- Resolution: 1 ppb (ug/L)
- Accuracy: $\pm 2\%$ of Full Scale
- Repeatability: $\pm 2\%$ of Full Scale
- Linearity: $\pm 1\%$ of Full Scale
- Drift: Nil
- Test duration: 10-15 minutes
- Interferences: None

ACCESSORY OPTIONS:

- Carrier Air Pump System (no air utility required)
- Data Download software for PC (to download data from analyzer to PC with RS-232/485 to USB)
- H₂S Scrubber for Vent

DISPLAY:

- Graphical & Alpha Numeric LCD (four digits)

PACKAGING:

- General Purpose, IP54
- Approx. 50lbs. (options dependent)
- 24"H x 24"W x 10"D (options dependent)

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