H_2S IN LIQUIDS ANALYZER

Model 205 | **Crude Oil, Fuel Oil, Dirty/Clean Water, Drilling Fluid, Condensate, Diesel**

Product Features

- Specific to H2S only. No false positives, ever
- No field calibrations required
- Accurate and continuous analysis
- Quantitative measurement in PPB, PPM & percent Levels
- Proven reliability
- Conformity to ASTM methods
- Fast response time
- Long tape life: As few as 4 tape changes per year
- Remote & Web based monitoring/control of analyzer
- ATEX and IECEx certificates available

Preferred Vendor for Liquid H_2S Analyzers by:

Applications

• Crude Oil (light/medium/heavy) • Dirty/clean Water • Diesel • Fuel Oil • Drilling Fluid • Condensate • Quality control
• Corrosion control • Transportation safety • Loading/unloading of trucks, rail cars, pipelines, etc. • Compliance

No 'false positives' The only detection method specific to H2S only, proven by thousands of applications
Ultra low-maintenance Advanced Colorimetric-Rateometric Detector is guaranteed hassle-free for long term operation
Dependable operation ASI Membrane Technology eliminates liquid carry-over that plague **headspace stripping columns**
No field calibrations The analyzer does not require calibrations in the field despite unexpected process changes

Product Description

The effective process for measuring H2S in crude oil and other liquids involves representatively stripping the H2S vapor from the liquid for precise measurement in the gas phase. The problematic and complicated 'headspace' stripping column, which often suffers from liquid carry-over, is not required for this separation. Analytical Systems utilizes the state-of-the-art Sample Transfer Stripper (STS) with exclusive ASI Membrane Technologies to efficiently and reliably separate the H2S from the liquid sample for measurement in the gas phase. The STS is a very simple device that provides an ultra-clean and dry sample to the detector for analysis. The STS uses 90% fewer parts than the complicated 'headspace' stripping column method. This results in radically reduced maintenance requirements when compared to the headspace stripping column method and also enhances analytical reliability. Analytical Systems is established as the world-wide leader in H2S in liquids analysis (including crude oil) due to the many benefits of this exclusive technology.

The principle of operation is based on a continuous flowing liquid sample into the heated STS unit which separates the liquids from the H2S gas sample, based in part on Henry's Law. Carrier gas/air then sweeps the H2S sample to the H2S specific detector for quantitative analysis in ppb, ppm, or percent levels. The analyzer does not require zero or span field calibrations even when faced with process changes.

ANALYTICAL SYSTEMS KECO

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) without cooling/heating
- 0°C to 70°C (storage)

ANALOG
- 4-20mA Isolated

ANALYTICAL PERFORMANCE
- Resolution: 1 ppb
- Accuracy: ±2%
- Repeatability: ±1%
- Linearity:±1%
- Drift: Nil
- Temp. Coefficient: 0.01% / °C
- Analysis time: 0.75 Second

DETECTION RANGES
- 0-1 ppm by wt.
- 0-10 ppm by wt.
- 0-50 ppm by wt.
- 0-100 ppm by wt.
- 0-500 ppm by wt.
- Customer specified (contact factory)

SAMPLING SYSTEM
- Sample Pressure Regulator (400 or 1,500 psig max)
- Sample Needle Valve
- Sample Flow Meter
- Carrier Air/Gas Flow Meter
- AutoClean Sample Filter (205HV, standard)

WEIGHT
- ~280 lbs (205HV)
- ~130 lbs (205P)

DIMENSIONS
- 3 ft X 4 ft X 1 ft (205HV)
- 2 ft X 2 ft X 1 ft (205P)

UTILITIES/SETTINGS
- 110VAC or 220VAC
- 100 Watts normal, 700 Watts max
- Carrier Air/Gas: 180 ml/min (15 psig max)
- Sample flow: ~200 ml/min
- Sample pressure: 30 psig (400 or 1,000 psi max)

AREA CLASSIFICATIONS
- Class 1 Division 1
- Class 1 Division 2
- Zone 1 or Zone 2
- ATEX, IECEx certificates available

AVAILABLE OPTIONS
- Concentration relay alarms
- Diagnostic/fault relay alarms
- Low flow relay alarms
- RS-232/485 Modbus
- Data Logger for data download to PC
- Remote monitoring/control with PC
- Automatic calibration

TECHNOLOGIES
- Sample Transfer Stripper™ (ASI Membrane Technology)
- Rateometric-Colorimetric Tape
- Electrochemical Cell (see Model 204H, for water)
- Others available (consult factory)

Advantages

No 'false positives' The only detection method specific to H2S only, proven by thousands of applications

Ultra low-maintenance Advanced Colorimetric-Rateometric Detector is guaranteed hassle-free for long term operation

Dependable operation ASI Membrane Technology eliminates liquid carry-over that plague **headspace stripping columns**

No field calibrations The analyzer does not require calibrations in the field despite any unexpected process changes

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**

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