# H<sub>2</sub>S IN LIQUIDS ANALYZER

**CONTINUOUS ON-LINE PROCESS** 

CRUDE, FUEL OIL, DIESEL, DRILLING FLUID, WATER

Model 205HV



- Fast response time of only seconds
- Specific only to H2S, no interferences, utilizing ASTM approved Colorimetric Tape Method
- No routine calibrations required Maintains accuracy long term
- Long tape life Only 4-7 tape changes per year on average
- Rugged built Stainless Steal Powder coated enclosure for off-shore/dessert/ marine envirnoments
- Sample Transfer Stripper (STS) for years of dependable & hassle-free performance Capable of wide range viscosity samples
- Accurate at PPB, PPM and % Ranges



Awarded 'Preferred Vendor' by Saudi Aramco for the Model 205 H2S in Crude Analyzer

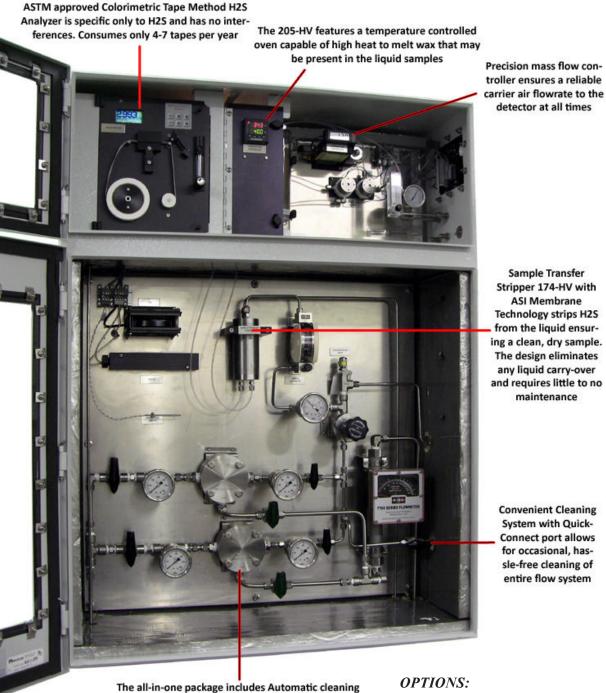
Virtually **no moving parts** in the sampling system allows for extremely high reliability.

### **Description & Principle of Operation**

The Model 205 H2S in Liquids Analyzer offers high dependability & performance with the ability to measure H2S in a wide range of viscous samples including crude oil, fuel oil, diesel, drilling mud, water and others. The designed is based on years of field experience with model 205s installed throughout the world. This model establishes Analytical Systems as the true worldwide leader for hydrogen sulfide measurement in liquids.

The ability to analytically quantify  $H_2S$  in liquids, such as naphtha, water, crude oil, fuel oil, drilling mud and gasoline, are enhanced with the Sample Transfer Stripper<sup>TM</sup> (STS) exclusive ASI Membrane Technology Model 174HV and ratiometric colorimetric technologies offered by Analytical Systems. The principle of operation requires a continuous free flowing liquid sample into a heated enclosure where the Sample Transfer Stripper<sup>TM</sup> unit separates the liquids from the  $H_2S$  gas sample. An  $H_2S$  free or nitrogen carrier then sweeps the  $H_2S$  gas sample to the  $H_2S$  analyzer for quantitative analysis in ppbw, ppmw, and up to saturation levels. A liquid validation by PermTube<sup>TM</sup> 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 specific only to  $H_2S$ . Optical illumination & detection are integrated for maximum resolution accuracy. Economic payout is increased because of this automated continuous process analyzer.





#### ANALYTICAL PERFORMANCE:

(APPLICATION DEPENDENT)

Ranges available: PPB, PPM to Saturation

Accuracy: +2% of Full Scale Repeatability: +1% of Full Scale

Resolution: <10 PPB

Linearity: + 1% of Full Scale

Drift: Nil

Temp. Coefficient: 0.01% 1 Degrees C

Analysis Time: 0.7 Seconds (Concentration Dependent)

filters built inside analyzer cabinet

High and Low Concentration Relay Diagnostic Trouble Shooting Includes: Carrier Air, Purge Flow & Temp. Alarm RS-232/485, Remote Troubleshooting Quick-Cleaning System True Validation System (auto or manual)

## AREA CLASSIFICATIONS:

General Purpose (Standard)

Purge Class I Div. II or I, GR. B,C,D (Optional)

#### CABINET DIMENSIONS & WEIGHT:

Stainless Steel Cabient 4 Ft. H x 3 Ft. W x 12 In. D 280 lbs. (Without Options)

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