

OIL IN WATER ANALYZER

Patented Sample Transfer Stripper & Liquid Calibration

Model 204-O



FEATURES - Patented & Exclusive

- **Continuous On-Line Analysis**
- **20 Years Experience**
- **Lower Detectable Limit 1 ppb w thru ppm w to Saturation**
- **Liquid Calibration by PermTube**
- **4-20mA & RS-232/485**
- **Reduced Downtime**
- **Proven On-Line Reliability**

Description & Principle of Operation

The ability to analytically quantify oil in water is greatly enhanced with the Sample Transfer Stripper (Patented Membrane Technology) and the solid state sensor offered by Analytical Systems International (ASI). The analyzer system utilizes many patented and exclusive features only available from ASI.

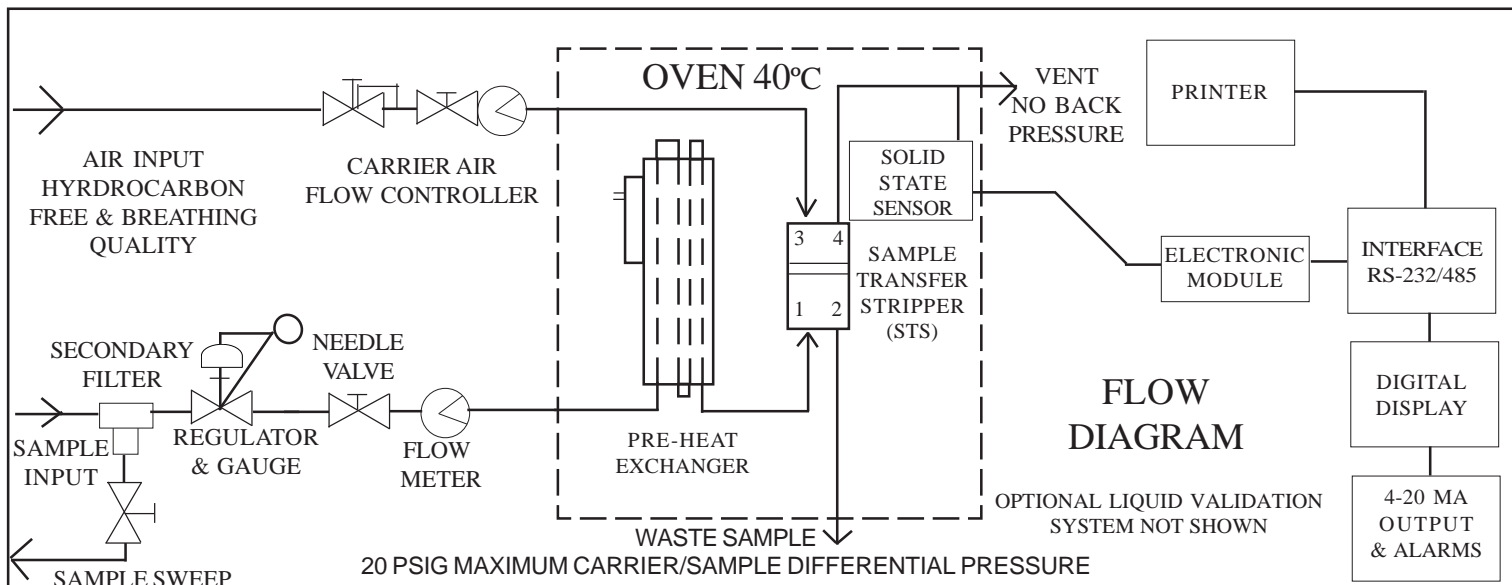
The principle of operation requires a consistent free flowing liquid sample into a Sample Transfer Stripper unit that separates the liquids from the VOCs in the oil. A hydrocarbon free, consistently flowing air carrier then sweeps the VOC components from the oil in a gaseous form into the solid state sensor for quantitative analysis in ppb w, ppm w, or up to saturation levels. An optional patented liquid validation/calibration by Perm Tube is available. This unattended on-line analysis is economically superior to inaccurate laboratory analyzers where unstable grab samples result in oil deterioration that produce analytical errors. Downtime is reduced to less than 10% of the El Paso, TOC or Sparger methods and the economic pay out is increased because of reduced product loss. In one case, 12,000 pounds of product loss per day was quickly identified by this proven and accurate on-line analytical method.

Applications include the analysis of VOCs and oil in water for cooling towers, heat exchangers, holding ponds, run off water, and waste water.



Analytical Systems Int'l/KECO R&D

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MODEL 204-O SPECIFICATIONS

POWER INPUT:

- 110 VAC 50/60 Hz @ 6 Amps.
- 220 VAC 50/60Hz (optional)

TEMPERATURE:

- Oven Setting with Automatic Control
- Operating: 5C to 50C
- Storage: 0C to 70C
- PPB W Range Requires Temp. Control Building

PERFORMANCE (APPLICATION DEPENDENT):

- Range: Customer Specified PPB W thru PPM W to Saturation
- Primary Chemical Component Customer Specified
- Resolution: 1 PPB
- Accuracy $\pm 2\%$ of Full Scale
- Repeatability: $\pm 2\%$ of Full Scale
- Linearity $\pm 1\%$ of Full Scale

ACCESSORY OPTIONS:

- Primary Filter, One Liter/min. Sweep
- Cabinet Heater & Thermostat
- Special Sampling Systems
- Patented Liquid Validation System by Perm Tube™
- Air Purifier For Hydrocarbon Free Carrier

MEMORY / COMPUTER INTERFACE:

- RS-232/485 Serial Port Communication

DISPLAY:

- Alpha Numeric Large LCD

ANALOG OUTPUT SIGNAL:

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

SAMPLE INPUT:

- Pressure Regulator & Gauge Provided
10 PSIG Minimum @ 20 ml/min. Sample Flow
- Temperature Control Automatic

UTILITY SUPPLY:

- Carrier: Zero Air or Breathing Quality (Hydrocarbon Free) @ 200 ml/min.
- Calibration Supply Chemical

ALARM CONTACTS (optional):

- High and Low Concentration Relay
- Diagnostic Alarms for Loss of Sample Flow, Air Flow, Purge Flow & Power Loss

AREA CLASSIFICATIONS:

- General Purpose (standard)
- Type Z Purge Class I Div. II, Gr. B,C,D (optional)
- Type X Purge Class I Div. I, GR. B,C,D (optional)

CABINET DIMENSIONS & WEIGHT:

- Stainless Steel NEMA 4X 36" Hx24" Wx10" D (90cm Hx60cm Wx26cm D) 200 lbs. (91 kgs)

Analyzer Quote Request Form:

Analytical Systems International provides design and application engineering assistance for the User's analyzer requirements. For a quotation, please complete the ASI Analyzer Quote Request Form at www.ASIWebPage.com. For a quote request form, see main web page top right orange button.

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