



ASPROC

VOC IN WATER ANALYZER

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VOC / HYDROCARBONS IN WATER ANALYZER

Model 204 PermaStream™ | Real-time measurement of VOC leaks in clean or dirty water



No Sample Conditioning Required

Measures at process pressure, temperature and flow. No filters required. Send sample back to process header without SRU

Ultra-low Maintenance

The solid state analyzer has no moving parts, providing low upkeep requirements

Dependable Operation

KECO PermaStream™ membrane technology creates an ultra-clean sample for sensor. Typical 99% uptime.

Consumable Free

The analyzer requires no costly consumables for analysis

Applications

- Cooling tower / heat exchanger water
- Produced water
- Waste water
- Storm runoff water
- Boiler condensate
- Monitoring at desalination plants
- Effluent water
- Bilge water discharge
- Municipal water treatment plants

Product Description

The KECO 204 PermaStream™ accurately measures total hydrocarbons / VOCs including aliphatic and aromatic hydrocarbons. KECO Membrane Technology eliminates false™ high readings and false high alarms as seen in UV Fluorescence Methods. The online analysis provided by the Model 204 PermaStream™ is economically superior to inaccurate laboratory analyzers where unstable grab samples result in VOC deterioration which produces analytical errors. The water sample continuously flows into the analyzer and the heated PermaStream™ unit effectively strips the hydrocarbons in the water based on Henry's Law. A carrier air then sweeps the hydrocarbons from the PermaStream™ and transports them to the metal-oxide sensor for a quantitative analysis. The advanced HMI (Human Machine Interface) quantifies and displays the values on the color touchscreen display, 4-20mA output loop and can communicate via RS-485, TCP/IP Ethernet and Modbus. Remote and Web based monitoring and control of the analyzer is available as an option.



Typical Specifications

DISPLAY

- Color Touchscreen
- 4 Concentration Digits
- Non Intrusive Display (Div 2 & GP)

AMBIENT TEMPERATURE RANGES

- 1°C to 55°C (operating) without ext. cooling/heating
- 0°C to 70°C (storage)
- PPB range may require temp. controlled building

ANALOG

- Isolated 4-20mA

ANALYTICAL PERFORMANCE

- Resolution: <50 ppb (app. dependent)
- Accuracy: $\pm 3\%$ * of full scale

*Accuracy may be improved significantly near points of interest including ppb level concentrations

- Repeatability: $\pm 3\%$ of full scale
- Linearity: $\pm 3\%$ of full scale
- Response time: Initial 60 sec. @ sensor (conc. dep.)
- Sensor life: Avg. 5-10 years

DETECTION RANGES

- 0-1 ppm by wt. (or 0-1,000 ppb 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)

WEIGHT

- ~100 lbs

DIMENSIONS

- 3 ft X 2 ft X 1 ft

UTILITIES/SETTINGS

- 110VAC or 220VAC
- 200 Watts max.
- Carrier Air: 200 ml/min (15 psig max.)
- Sample flow: 0.5 L/min min.
- Sample pressure: 150 psig max.

AREA CLASSIFICATIONS OPTIONS

- Class 1 Division 1 (G1 version only)
- Class 1 Division 2
- Zone 1 (G1 version only) or Zone 2

AVAILABLE OPTIONS

- Concentration relay alarms
- Diagnostic/fault alarms
- Low carrier, sample flow relay alarms
- RS-485, TCP/IP Modbus
- Remote monitoring/control with web

TECHNOLOGIES

- PermaStream™(KECO Membrane Technology)
- Advanced VOC Sensor (solid state)

Advantages

Consumable Free There are no costly consumables needed for analysis

Dependable operation ASI Membrane Technology creates ultra-clean sample for sensor

Ultra low maintenance The analyzer is completely solid state with no moving parts

