

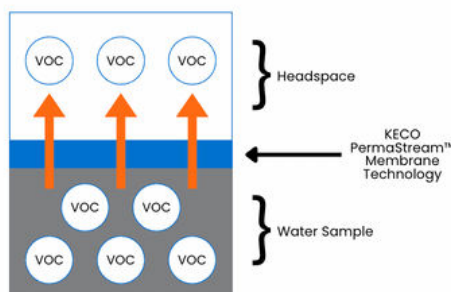
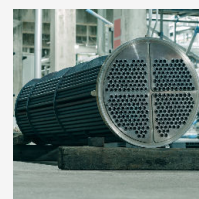


### **Model 204 PermaStream**

The KECO Model 204 PermaStream Real-Time VOC/Hydrocarbon Analyzer delivers precise, cost-effective, and field-proven performance for continuous monitoring. Its robust metal oxide sensing element minimizes maintenance, ensures long-term calibration stability, and delivers high analytical accuracy—empowering operators to make timely, data-driven decisions with confidence.

### **Applications**

- Cooling Water/Heat Exchangers
- Boiler Condensate
- Produced Water
- Industrial Pre-Treatment
- Municipal Waste Water
- Municipal Drinking Water
- Desalination Plants
- Collection Systems/Stormwater
- Bilge Water Discharge



### **Benefits**

- Unique design & technology
- Solid state/no moving parts
- Membrane technology
- Operates at process conditions
- Continuous online monitoring
- Intuitive user interface

### **Operational Impact**

- 99% uptime & minimal servicing
- Ultra low maintenance
- False positive alarm elimination
- No sample conditioning required
- High accuracy & VOC coverage
- Efficient VOC stripping



## **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**

- 2 ft X 2 ft X 11"

### **UTILITIES/SETTINGS**

- 110VAC or 220VAC- 200 Watts max.
- Carrier Air: 200 ml/min (15 psig max.)
- Sample flow: 0.5 L/min.
- Sample pressure: 100 psig max.

### **AREA CLASSIFICATIONS OPTIONS**

- Class 1 Division 1 (Purged)
- Class 1 Division 2 (Purged)
- Zone 1 or Zone 2 (Purged)

### **AVAILABLE OPTIONS**

- Concentration relay alarms
- Diagnostic/fault alarms
- Low carrier, sample flow relay alarms
- RS-485, TCP/IP Modbus
- Remote monitoring/control with web
- ATEX / IECEx certifications (added cost)

### **TECHNOLOGIES**

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

KECO provides design and application engineering assistance for the User's analyzer requirements. For a quotation, please complete Analyzer Quote Request Form at [kecosystems.com/quote](https://kecosystems.com/quote)

KECO reserves the right to make revisions and or changes without notice. KECO shall not be liable for any errors or omissions made or any damages resulting from the use of the analyzer, information, or the manual. © 2025 Printed in the USA.