

CMS-4000 :: CONTINUOUS MONITORING SYSTEM



CMS-4000

APPLICATIONS

- :: Process water
- :: Waste water
- :: Oil field produced water
- :: Separation vessel effluent
- :: Storm water run-off
- :: Groundwater remediation monitoring
- :: Carbon filter bed breakthrough
- :: Heat exchanger leak detection
- ::

FEATURES

- :: Reliable tool that measures petroleum hydrocarbons in water
- :: Used in applications where Web connection is NOT required
- :: Used where logger needs to communicate with other equipment in the plant
- :: Continuous data collection and recording
- :: Certified Intrinsically Safe by UL
- :: Analog (V or mA) output
- :: Connect up to four (4) DHP hydrocarbon probes
- :: Real time remote monitoring

CMS-4000 : CONTINUOUS MONITORING SYSTEM

The **CMS-4000** is a simple, reliable tool to measure and monitor total petroleum hydrocarbons in water. With no moving parts and corrosion protected components, the system can be utilized in many different applications.

The **CMS-4000** logger with the Fiber Optic Chemical Sensor (FOCS®) detects the presence of petroleum hydrocarbons in water. The FOCS probe takes advantage of the interaction between the light traveling through a fiber and a water solution containing petroleum hydrocarbons. As the concentration of hydrocarbons increases, the light scattered from the proprietary probe fiber increases in a quantitative relationship. The probe output is monitored by a controller that has 0-5 volt or 4-20 mA output. The system can monitor up to four (4) probes.

PERFORMANCE SPECIFICATIONS IN WATER

| | |
|--------------------------------|---|
| Operating Range | 0-2,000 ppm as TPH |
| Lower Limit of Detection | 0.1 ppm as xylene |
| Hydrocarbons Detected | C6 and higher MW petroleum hydrocarbons |
| Accuracy/Precision | ±10% of reading |
| Response Time (initial) | <15 seconds |
| Response Time (to 95%) | <5 minutes |
| Operating Temperature Range | 0° - 50° C |
| Trend Correlation with GC data | 98% vs. EPA Method 8020 |

PetroSense® is the leading source for TPH (total petroleum hydrocarbons) and BTEX portable and continuous monitoring systems.

SYSTEM REQUIREMENTS Power: 110-220 VAC 50/60 Hz 0.5 amp
Mounting: Wall or panel

HARDWARE SPECIFICATIONS

| | |
|-----------------------------------|---|
| Enclosure: | NEMA 4X |
| Analog Output: | 0-5 Volts, 4-20 mA (optional) |
| Physical Dimensions: | 12" L X 11" W X 6.5" D. (305 X 280 X 165) |
| Enclosure Wt.: | 9 lbs. |
| Environmental Temperature: | -20°C to +50°C |
| Sample Temperature: | 0°C to +50°C |