

CMS-4000 :: CONTINUOUS MONITORING SYSTEM



CMS-4000

APPLICATIONS

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

*Optional

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
- :: Intrinsically safe probe network*
- :: 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 petroleum hydrocarbons in water. With no moving parts and corrosion protected components, the system can be utilized in many different applications.

The **CMS-4000** detects the presence of petroleum hydrocarbons in water using the patented Fiber Optic Chemical Sensor (FOCS®). 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 and remote access capability. The system can monitor up to four (4) probes.

The probe is intrinsically safe* and designed to be remotely mounted in hazardous locations.

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:	0°C to +50°C
Sample Temperature:	UL, CUL, KEMA, CE

*When used with the FCI Environmental Intrinsic Safety Barrier.