PetroSense®

Environmental Monitoring & Testing

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

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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.