

CMS-5000

Continuous

Monitoring

System



The CMS-5000 Continuous Monitoring System is a low-cost alternative for owners/operators of aboveground and underground storage tanks (ASTs & USTs). It measures hydrocarbons in water or vapor interchangeably and controls 1 to 16 digital hydrocarbon probes (DHPs). With the DHPs, the CMS-5000 is capable of detecting leaks much smaller than the EPA mandated 0.2 gal./hr. New leaks can be detected in the presence of old contamination, and there is no response to naturally occurring hydrocarbons such as methane.

Alarm levels and how often sampling is performed can be programmed remotely. The optional alarm unit has auditory and visual alarm indicators which are activated by environmental and equipment alarms. These alarm units can be mounted on site or remotely. The CMS-5000 is also equipped with remote communication capabilities and can be connected via telephone, cellular and satellite to a PC.

Applications

- Remediation Monitoring
- Hydrocarbon Breakthrough
- Wastewater
- Leak Detection
- Process Fluids
- Stormwater Monitoring



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Features

- Detects Hydrocarbons Directly in Water and Vapor
- Detects Floating Liquid Product Instantaneously
- 3rd Party Certified Equivalent to EPA Method 8020
- Intrinsically Safe – UL, CUL, KEMA ia, CE
- Fast Response
- Wide Dynamic Range
- Easy to Calibrate
- Stable
- Reliable



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FCI Environmental, a DecisionLink, Inc. Company. FCI has developed a range of products and systems based on its patented fiber optic chemical sensor (FOCS[®]) technology which provide in-situ and continuous monitoring capabilities with real-time information obtained from sites. The PetroSense[®] product line was initially launched in late 1994, and FCI is continuing to explore further commercial applications for its technologies. Recently, the FCI Environmental Group has introduced small, low-cost sensor and communication products that use satellite communications and the Internet as the backbone for data transfer and control in the pipeline leak detection, aboveground storage tank monitoring, oil production, water quality monitoring and industrial wastewater compliance monitoring and control markets.

Microsoft Windows is a registered trademark of Microsoft Corporation. FOCS and PetroSense are registered trademarks of DecisionLink, Inc.

Manufactured under one of the following U.S. Patent Numbers: 4,824,206; 4,913,519; 4,846,548; 4,929,049; 5,026,139; 5,094,958; 5,109,422; 5,165,005; other Patents Pending.

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PERFORMANCE SPECIFICATIONS

	VAPOR	WATER
Operating Range	0-20,000 ppm as TPH	0-2,000 ppm as TPH
Lower Limit of Detection	<10 ppm as xylene	0.1 ppm as xylene
Hydrocarbons Detected	C6 and higher MW Petroleum hydrocarbons	C6 and higher MW Petroleum hydrocarbons
Accuracy/Precision	±15% of reading	±10% of reading
Response Time (initial)	12 seconds	12 seconds
Response Time to 95%)	<1 minute	<1 minute
Operating Temperature	0° to 50°C	0° to 50°C
Trend Correlation with GC Data	95%	98%vs. EPA method 8020

HARDWARE SPECIFICATIONS

Supply Voltage	9-12 VDC
Data Input/Output**	SDI-12 or RS485
Baud Rate	1200
Idle State Current Consumption	700 µA typical, 1.5 mA maximum
Active State Current Consumption	6 mA typical, 15 mA maximum
Cable (with weatherproof connector)	Teflon jacketed, shielded
Cable Pull Strength	125 pounds
Cable Length	125 feet (38 meters), standard
Probe Length	10 inches (25 cm)
Probe Diameter	0.75 inch (19 mm)
Probe Weight	9 oz. (253 gms)
Options	Wireless Data Transfer Internet Data Access Solar Powered System

Alarm Unit

Alarm Indicator	Sonalert (95 dB at 2 ft.), flashing light
Operating Temperature	-20°C to +55°C
Enclosure Type	NEMA-4X
Enclosure Dimension	7.0 in. x 10.0 in. x 4.5 in.
Weight	2 lb. (.91 kg)

Accessory Supplies

Calibration Kit and Refill Kit
Probe Extension Cables
Junction Boxes