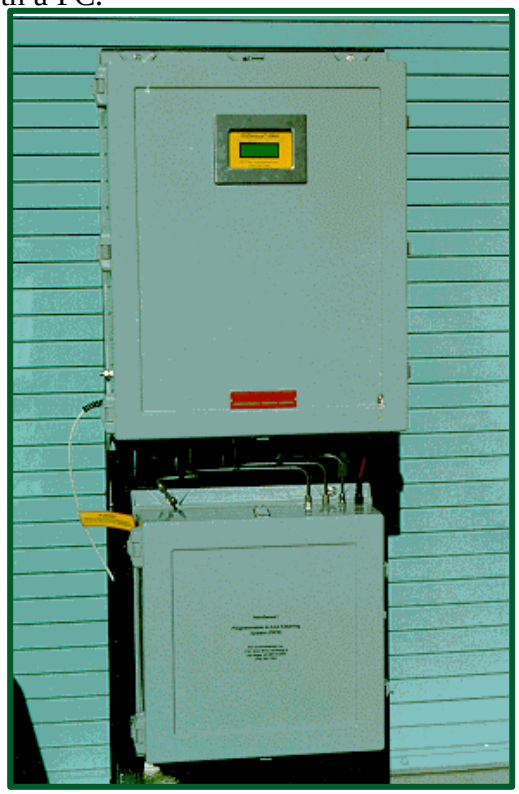
FCI ENVIRONMENTAL, INC. OilSense®-4000

Continuous Hydrocarbon Monitoring System

The OilSense®-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 hydrocarbon concentration in real time and can be remotely accessed via telephone of cellular interface with a PC.



The OilSense®-4000
Non-Hazardous Area Model

Applications

- Oil field produced water
- Separation vessel effluent
- Storm water run-off
- Process and waste water
- Bilge and ballast water
- Groundwater remediation monitoring
- Carbon filter bed breakthrough

The OilSense®-4000
Class 1 Division 1 Field Installed

Simple, Reliable Operation

The OilSense®-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.

OilSense 9/1999

MTIAT, P.O. Box 571866, Houston, TX 77257-1866 ● Tel: (713) 978-7765 ● Fax: (713) 978-6230

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The probe is intrinsically safe and designed to be remotely mounted in hazardous locations. The OilSense®-4000 is designed to operate for extended periods without operator attention. The unit features auto cleaning, auto zeroing, self-diagnostic software

Local LCD Panel

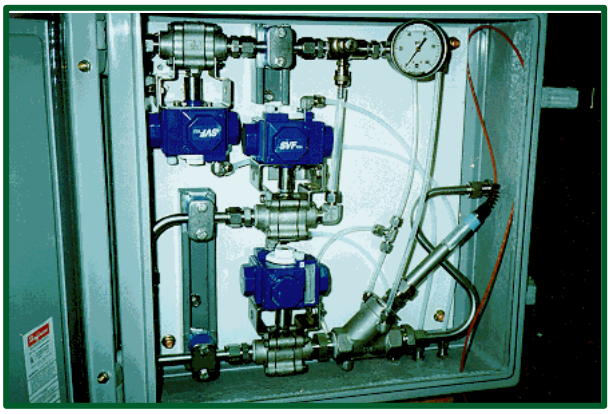
Specifications

Enclosure	NEMA 4X, Class 1 Div 1, Class 1, Div 2 and Eexp II air purge options
Analog Output	0-5 Volts, 4-20 mA (optional)
Communications	RS-232 and/or modem

Physical Dimensions

Probe Diameter	0.75” (19 mm)
Probe Length	10” (25.5 cm)
Probe Weight	9 oz. (253 gm)
Enclosures	24” x 30” x 8” & 20” x 20” x 7”
Mounting Skid	25” x 36” x 72”

Environmental Temperature	-20°C to +50°C
Sample Temperature	0°C to +50°C
Certifications	UL, CUL, KEMA, CE



Interior View of the Probe Housing

System Requirements

Power	110-220 VAC 50/60 Hz 0.5 amp
Mounting	Wall or panel, optional skid
Rinse Water	5 gpm @ 50 psig minimum
Instrument Air	120 psig, dry and oil-free

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

FCI—Innovative Technology...

Meeting our customer needs.

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