PetroSense®

Environmental Monitoring & Testing

PHA-100 : PORTABLE HYDROCARBON ANALYZER

FEATURES

- Detects Total Petroleum Hydrocarbons Directly in Water, Vapor and Floating Liquid
- Operates in Analytical or Screening Mode
- Provides *In-Situ*, Real-Time Information
- Quick Zero
- Automatic Media Sensing
- Easy to Use - Menu-Driven Software
- 3rd Party Certified Equivalent to EPA Method 8020
- Florida DEP Approved Equivalent to FID for Soil Vapor Analysis
- Probe Stability Indicator
- Logs Data from 100 Samples
- Serial Output to Laptop
- Easy to Calibrate
- Intrinsically Safe, UL, CUL, KEMA ia, CE

APPLICATIONS

:: Remediation Monitoring

:: Site Assessment

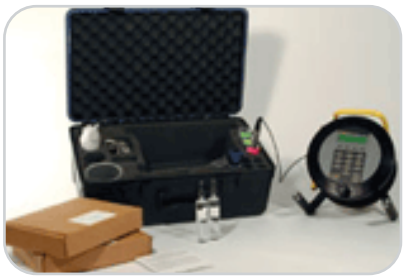
:: Well Plume Monitoring

:: Storm/Waste Water Monitoring

:: Hydrocarbon Breakthrough

:: Leak Detection AST/UST

Rugged, professional air/water tight carrying case



ACCESSORIES

- Supply of calibration solution
- Charger
- Interface cable
- Calibration containers/Components

PetroSense.com · info@petrosense.com · (214)483-1003

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The detection and measurement of total petroleum hydrocarbons (TPH) in water was historically achieved by sampling followed by gas chromatography or infrared analysis. With the advent of **PetroSense® PHA-100**, the world's first patented fiber optic chemical sensor (FOCS®) built into a portable analyzer, it is now possible to measure ppm levels of TPH in vapor or water in the field and in real time (*in-situ*).

The **PHA-100** portable hydrocarbon analyzer is designed to meet field monitoring requirements. In the analytical mode, it gives fast and accurate quantitative data for total petroleum hydrocarbons in water and vapor. The data correlates very well with lab gas chromatographic analysis. In the screening mode, it offers fast relative data on TPH contamination, tracking field gas chromatograph data for TPH, and responds strongly to BTEX components.

PERFORMANCE

	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)	<5 seconds	<5 seconds
Response Time (to 95%)	<1 minute	<5 minutes
Operating Temperature Range	0°-50° C	0° - 50° C
Trend Correlation with GC data	95%	98% vs. EPA Method 8020

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

HARDWARE SPECIFICATIONS

Readout:	Backlit LCD - parts per million, °C or °F, water or vapor
Logging Memory:	Data from 100 samples
Battery Life:	8 hours normal operation (Low battery indicator)
Charge:	12 hour charge period, AC
Dimensions:	10" (25cm) wide, 12" (30 cm) high, 7" (18cm) deep
Weight:	10 lbs. (4.5 kg)
Serial Output:	9600 baud
Calibration:	Simple calibration with certified, pre-mixed p-xylene standards
Probe Dimensions:	C: 0.75 in. (19 mm) L: 8 in. (20 cm)
Cable Length:	100 ft. (30 m)

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