

ppm Oil in Water Monitor

Benchtop monitor for ppm concentrations of petroleum oils in effluent and produced water

The FluoroCheck II from Arjay offers a fast and easy approach to the measurement of hydrocarbons in water. The solvent extraction technique qualifies the sample to ISO-9377-2 and EPA 1664 Rev A extraction methods.

- fluorescence technology targets hydrocarbon compounds
- safe and easy to use
- rugged design and automatic readings



FluoroCheck II

The FluoroCheck II uses a UV fluorescence technique to target the aromatic component of the oil contamination. Through a site calibration this aromatic tag provides an indication of total oil.

The sample cuvet is placed into the sample well. A non-contacting UV light source targets the sample with filtered light energy. The soluble and emulsified oils in the sample will excite from this light energy and fluoresce light energy back out of the sample at an oil signature wavelength. The intensity of light energy at this wavelength is measured to provide an indication of the ppm concentration.

■ Features and Benefits

- solvent extraction qualifies sample to ISO 9377-2 and EPA 1664 Rev A methods
- fast sample preparation and immediate readings
- controlled and safe use of solvents
- easy calibration and instrument set-up
- reading printout serial port
- bright backlit display of ppm readings
- long life LED light source
- multi-point calibration available for increased accuracy
- multiple calibration library of various oils or sites
- LED intensity selection to maximize response to unique oils
- no lag time, sample injection, or evaporation
- ideal for site screening and process trend monitoring
- compliments and supports existing laboratory results



The large backlit display provides menu driven set-up functions, diagnostics and automatic ppm readings.

■ Technical Specifications

Operating Temperature	15°C to 40°C, indoor use
Power Input	12 VDC (110 vac or 220 vac with supplied transformer)
Approval Standards	UL, CSA, CE (transformer)
Range	0-100 ppm (extended with sample dilution)
Display Resolution	selectable 1 or 0.1 ppm
Instrument Accuracy	+/- 0.1 ppm

■ Performance

The performance is based on the site calibration to a known hydrocarbon concentration in stable background water. Changes in hydrocarbon make-up and background stability may affect the output. Through a simple calibration, this unit correlates well with laboratory ISO 9377-2 and EPA 1664 Rev A methods.



A 'Grab and Go' kit is available that includes all the necessary accessories to start testing. Solvents are sourced locally.

■ Easy as 1, 2, 3



Solvent is added to your water sample and shaken.



The oil extracts into the solvent and is transferred to a cuvet.



The cuvet is placed in the FluoroCheck II and the reading is displayed.



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