

FluoroCheck ppm Oil in Water Monitor



Benchtop and field monitoring of petroleum oils in:

- wastewater and groundwater
- industrial effluents
- cooling water
- produced water

The FluoroCheck offers a fast and easy approach to the measurement of hydrocarbon oils in water. Filtered light energy targets the aromatic component of the water sample and measures the hydrocarbon fluorescence. Through an Arjay or site specific calibration, this aromatic tag is correlated to a total oil reading of your sample.

Arjay offers three test modes in one instrument; letting you determine the most suitable approach for your testing needs. You can choose from the factory preset calibrations for immediate on-site use or do your own calibration specific to your site. You can even run routine solvent-free tests and easily switch to a solvent extraction when a more selective test is warranted. All tests use disposable cuvetts to eliminate cross-contamination and cleaning issues.



Direct Water Testing

A water sample can be measured directly in the instrument without solvents or sample preparation. This is ideal for general screening to identify the presence or absence of hydrocarbons in groundwater, wastewater, cooling water and oil/water separator effluents.



CT-1000 Solvent Free Streaming

A large sample volume is streamed through the FluoroCheck using the CT-1000 streaming accessory. The FluoroCheck records over 200 readings of the passing stream and averages these for a more representative and accurate reading. This mode of testing is good for oil/water separators, discharge, produced water, and effluents where oil may normally be present or where quantitative values are desirable.



Solvent Extraction

To optimize the accuracy of the readings or to correlate the FluoroCheck to a specific analytical method, solvent extracted samples can be used. An extraction with hexane, pentane, or other extractive fluid will qualify samples using EPA 1664 Rev A and ISO-9377-2 extraction techniques. A calibration is entered using your local laboratory's results and methodology.



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**Measurement Modes
in One Instrument**

plus

**a factory and customer
storage library for up
to 10 calibrations**

FluoroCheck

Features and Benefits

- three modes of sample testing
- 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
- available with re-chargeable battery pack or vehicle jack

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 reading. Through a simple calibration, this unit correlates well with laboratory ISO 9377-2 and EPA 1664 Rev A methods.

Technical Specifications

Operating Temperature	15°C to 40°C, indoor use
Power Input	100-240 VAC, 47-63 Hz, 0.5A or 12 VDC, 1.5A
Approval Standards	UL, CSA, CE (transformer)
Range	0-100 ppm (extended with sample dilution)
Display Resolution	0.1 ppm
Instrument Accuracy	+/- 0.1 ppm

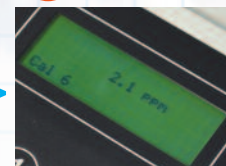
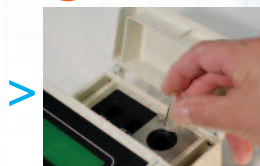
Whatever the mode, it's as easy as...

1 Prepare

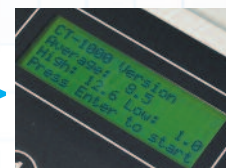
2 Insert

3 Read

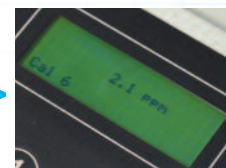
Direct Test >



CT-1000 Streaming >



Solvent Extraction >



Grab and Go Kit

'Grab and Go' kits are available for one, two, or all three measurement modes and include all the necessary accessories to start testing. Due to transport restrictions, solvents should be sourced from your own local lab supply company. Arjay will provide typical manufacturer and model numbers.



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