

## CHOW - ppm OIL IN WATER MONITOR - PORTABLE

**CHOW** offers a fast and easy approach to the measurement of hydrocarbons in water. Fluorescence technology targets hydrocarbon compounds. Safe and easy to use. Rugged design and automatic readings. The CHOW 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. Easy to use: 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 CHOW and the reading is displayed.



Features and benefits:

- fast sample preparation and immediate readings
- easy calibration and instrument set-up
- multiple calibration library of various oils or sites
- controlled and safe use of solvents
- reading printout serial port
- multi-point calibration available for increased accuracy

### 3 Easy step



Add the solvent to the water sample to be analyzed and shake



oils will be extracted by the solvent and transferred to a cuvette



Place the cuvette into the instrument and the reading will be displayed

## TECHNICAL SPECIFICATIONS

Range:	0...100 ppm ((extended with sample dilution))
Display Resolution:	selectable 1 or 0.1 ppm
Accuracy	+/- 0,1 ppm
Supply:	12 VDC (110 vac or 220 vac with supplied transformer)
Approval standard:	UL, CSA, CE (transformer)

## FCOW - ppm OIL IN WATER MONITOR - PORTABLE

**FCOW** featuring the least expensive, lightest, smallest, easiest to use, most accurate and most repeatable device on the market for measuring crude oil and condensates in produced water, de-salter tail water, tank bottoms, cargo heaters, or anywhere that crude oil comes in contact with water. Fluorescence Technology. Dual channel reduces operator error for high concentrations by extending the measurement range without dilution.

Dual Channel: Channel "A" for gas condensates and rene hydrocarbons, New Channel "B" for crude oil with greatly increased measurement range (>1000 ppm) without sample dilution. Fastest analysis procedure (<4 minutes/sample) with fewest steps (4). Compatible with all popular extraction solvents or new "NO-SOLVENT METHOD". No solvent evaporation such as with some IR methods. Easy calibration with oil standards or correlation to other methods. Minimum detection limit: <1 ppm for most oils.

Portable, handheld, weighs about 14 oz. (400 g).

Measures Water Soluble Organics and/or Free Oil.

No interference from methanol.

Accurate and highly repeatable.

Correlates to standard laboratory gravimetric and IR methods in most applications.

Disposable cuvettes.

Powered by 4 AAA batteries.

Measurements per battery change: >1,000.

CE, IP67, dust-proof, waterproof, Non metallic.



**SATEMA**

13856 VIGLIANO B.SE - Via Milano, 395

Tel. +39 015811102 - 015510156 Fax 0158853029

Mail: [info@satema.it](mailto:info@satema.it) <http://www.satema.it>