

HydroSense 4410-OCM Oil Content Monitor

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Oil Content Monitor

The Hydrosense 4410-OCM is a flow-through real-time monitor for on-line ppm (mg/l) indication of petroleum and/or non-petroleum oil in water.

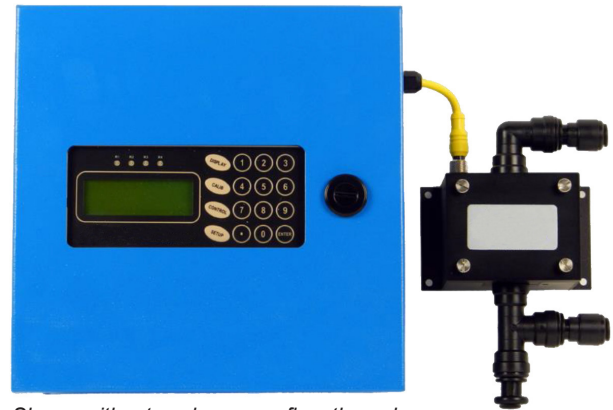
The unique sensor design can optionally provide both fluorescence and light scatter simultaneously in one unit.

Fluorescence responds to dissolved and free (buoyant) hydrocarbons in water. This technology targets the aromatic hydrocarbons in the water and through a site calibration, correlates this to total oil.

Light Scatter can be used for turbidity indication or indication of free oils of any type, such as synthetic and vegetable.

The closed loop sample stream assembly communicates with the controller using a Modbus interface. This allows the sensor to be mounted remotely with two main benefits:

- 1) The sensor can be mounted close to the process to reduce lag time and,
- 2) The controller can be mounted in an area better suited to safe operator access and control wiring interface.



Shown without enclosure on flow-through sensor block.

Ideal for:

- Oil/Water separators, FWKO and treater effluents
- Produced water
- Cooling water
- De-salination and RO systems
- Water treatment
- Stormwater run-off

Features and Benefits

- LED light sources for stable long life
- Multiple fluorescence excitation and emission wavelengths available to simultaneously define oil types
- Light Scatter available with or without fluorescence for non-petroleum oils and turbidity
- Cuvet available for manual sample insertion testing
- Scale/Algae Inhibitor module available for untreated waters
- Easy calibration with menu-driven 4-line display
- Up to 5 calibration points for enhanced high range accuracy
- Sensor block can be remote from controller to 1,200 meters
- Compressed air inlet on sensor block for high condensation applications.

Specifications

Range	0-500 ppm or mg/l
Accuracy	+/- 1% of calibrated range 0.1 ppm
Resolution	0.1 ppm (mg/l)
Sensitivity	463 ppb crude reference 145 ppb diesel reference
Process Fluid Temperature	0-55 C (32-130 F) (options for higher temperature)
Process Pressure	minimum 2 psig (14 kPa) maximum 300 psig 690 kPa)
Flowrate	minimum 1 l/m at 2 psig
Power Input	24 vdc or 100-230 vac
Enclosures	Type 4/IP65 coated steel, 316SS or polycarbonate
Ambient Temperature	5-55 C (32-130 F)
Certified to	Electrical Safety Standards UL/ANSI, CSA, and IEC Standard 61010-1

Also available with a purge/pressurization system for Div 2 and Zone 2 installations.

TechnipFMC
FMC Technologies
Measurement Solutions, Inc.
13460 Lockwood Rd.
Building S01
Houston, Texas 77044 USA
P:+1 281.260.2190

USA Operation
1602 Wagner Avenue
Erie, Pennsylvania 16510 USA
P:+1 814.898.5000

Germany Operation
Smith Meter GmbH
Regentstrasse 1
25474 Ellerbek, Germany
P:+49 4101 304.0