

HydroSense 4410-OCM

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 .

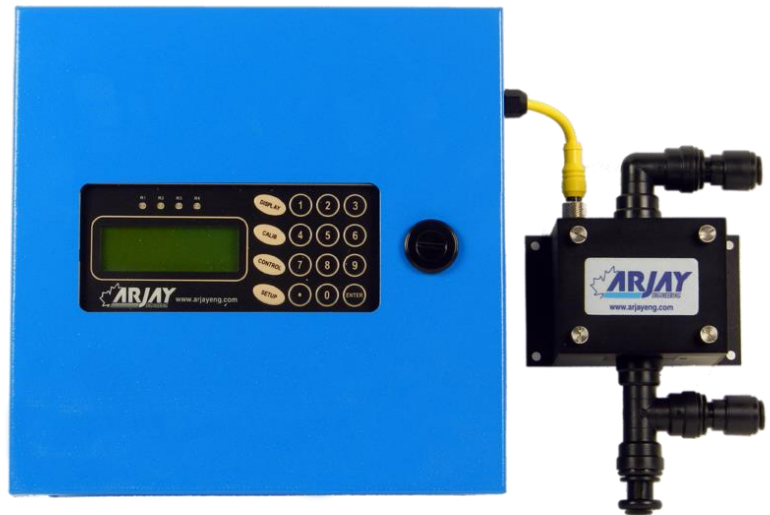
Fluorescence responds to dissolved and free (bouyant) hydrocarbons in water. This technology targets the aromatic hydrocarbons in the water and through a site calibration, correlates this to total oil.

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.

Ideal for:

- oil/water separators, FWKO and treater effluents
- produced water
- cooling water
- de-salination and RO systems
- water treatment
- stormwater run-off



* shown without enclosure on flow-through sensor block

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

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

SPECIFICATIONS

Range	1-250 ppm or mg/l	Power Input	24vdc or 100-230vac
Accuracy	+/- 1% of calibrated range	Enclosures	Type 4/IP65 coated steel, 316SS or polycarbonate
Resolution	0.1 ppm (mg/l)	Ambient Temperature	5-55 C (32-130 F)
Sensitivity	463 ppb crude reference 145ppb diesel reference	Certified to	Electrical Safety Standards UL/ANSI, CSA, and IEC Standard 61010-1
Process Fluid Temp	0-55 C (32-130 F) (options for higher temp)		
Inlet Pressure	minimum 2 psig (14 kPa) maximum 300 psig (690 kPa)		
Inlet Flowrate	minimum 1 l/m at 2 psig		

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