

HydroSense 4420-OCM Oil Content Monitor



The Hydrosense 4420-OCM is a flow-through real-time monitor for on-line ppm (mg/l) indication of petroleum and non-petroleum oil in clean, turbid-free water.

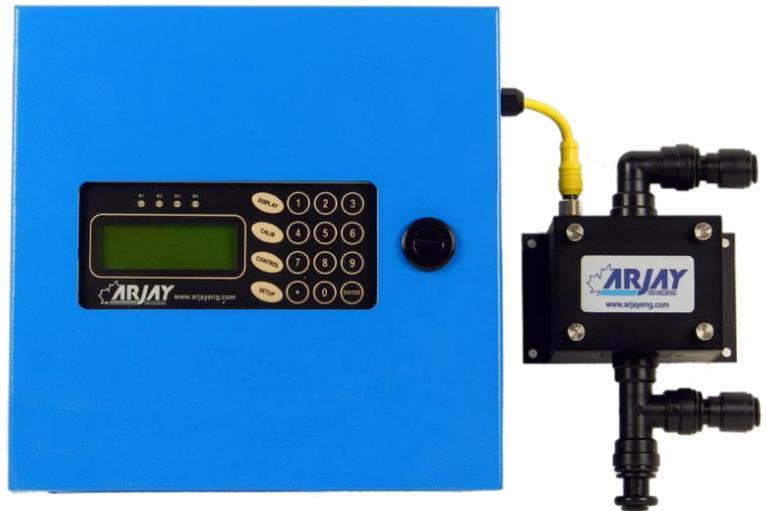
The unique sensor design uses light scatter to provide an economical solution to oil in water monitoring.

Free Oils in water, which are typically >2 micron, will scatter targeted light in a predictable manner. This technology monitors all oil types and is ideal for petroleum, synthetic, and vegetable oils in water.

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 and treated effluents
- clean produced water discharge
- cooling water
- de-salination and RO systems
- water treatment



* shown without enclosure on flow-through sensor block

FEATURES and BENEFITS

- LED light sources for stable long life
- Light Scatter responds to all oil types
- 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	0-250 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) options to 300 psig (690kPa)		
Inlet Flowrate	minimum 1 l/m at 2 psig		

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