

HydroSense 4420-OCM Oil Content Monitor



Flow-through real-time monitor for on-line ppm (mg/l) indication of petroleum and/or non-petroleum oil in clean, turbid-free water

The HydroSense 4420-OCM's unique sensor design uses light scatter to provide an economical solution to oil in water monitoring.

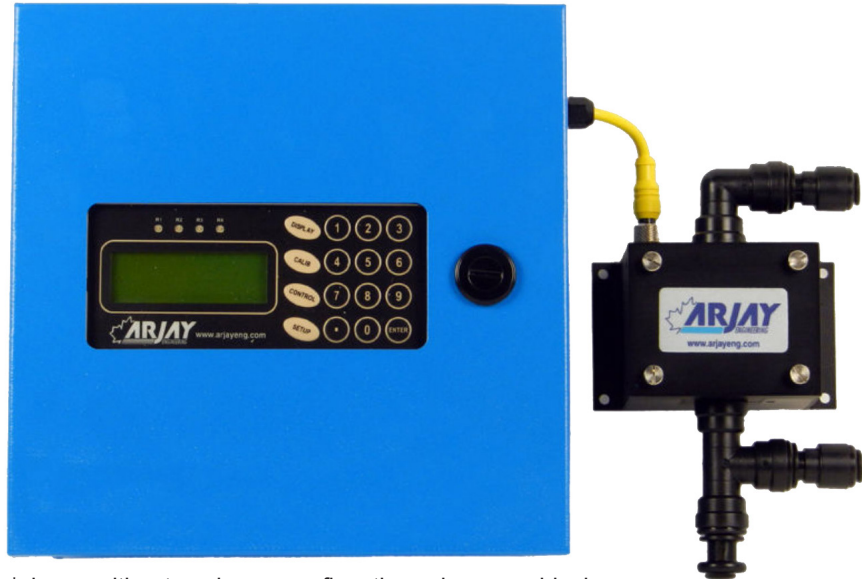
Free oils in water, which are typically > 2 micron, will scatter targeted light in a predictable manner. This technology monitors all oil types and is ideal for petroleum, synthetic, and vegetable oils in water.

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.

Technical 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 Temp	5°C to 55°C
Sensitivity	463 ppb crude reference 145 ppb diesel reference	Certified to	Electrical Safety Standards UL/ANSI, CSA, and IEC Standard 61010-1
Process Fluid Temp	0°C to 55°C (options for higher temp)		
Inlet Pressure	minimum 2 psig (14 kPa) options to 300 psig (690 kPa)		
Inlet Flowrate	minimum 1 l/m at 2 psig		