



Redefining Spectral Boundaries

PPM Oil in Water Analyzer: Process Control

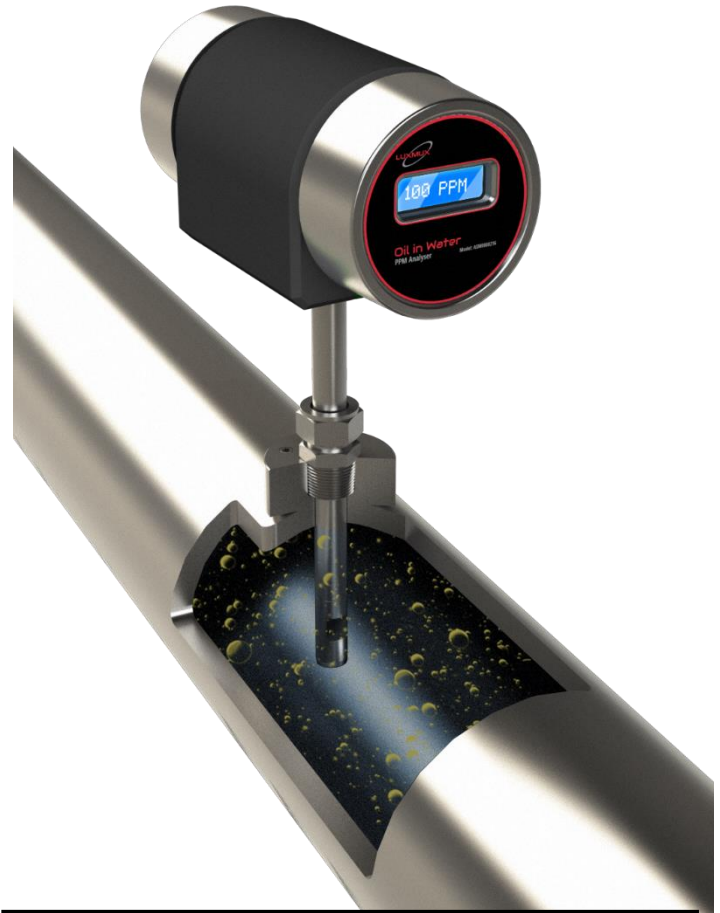
Output: Amount of oil in water

- Oil in water on-line monitor that provides hydrocarbon and oil in water monitoring down to low PPM/PPB levels.
- Cooling tower/heat exchanger water • Produced water • Waste water • Storm run off water • Boiler condensate • Monitoring at desalination plants • Effluent water • Bilge water discharge • Municipal water treatment plants

Compelling Technical Advantages

Combination of three well known principles Into one system, taking fluorescence, NIR scattering and Ultrasonic sensing into one solution

- ✓ Luxmux Develops unique turnkey solutions using our proprietary optical components and use of our tuneable technology with wide spectral coverage designed to enhance sensing proficiency.
- ✓ Luxmux is dedicated to pioneering new innovations in photonic technology, with key technology advancements: Oil in Water Optical Engine consisting of fluorescence sources, high pass filters, and NIR light source.
- ✓ Continuous On-Line Analysis, No Routine Calibrations Required, Field-Proven Reliability.
- ✓ Accurate and continuous analysis and quantitative measurement in ultra low ppb and ppm with Fast response time
- ✓ Remote & Web based monitoring/control of analyser
- ✓ ATEX, IECEx, CE certificates available



A Joint Product Development



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Applications	Boiler Feed Water, Waste Water, Steam Condensate, Skim Tank Outlets, Intake Protection, Process Optimization
Hydrocarbons	Diesel, fuel oil, crude oil, gasoline, jet fuel, aromatic chemicals, lubrication oil, heat exchanger fluids
Operational Principle Combined	NIR/Flouresence and ultrasonic
Detection Range	(FSR) Range 1: 0 - 100 ppm, Range 2: 0 - 2000 ppm
Repeatability	1% FSR
Dimensions Housing	6" diameter, 12" Width, probe: 1" diameter, 18" long
Process Connection Requirements	1" NPT
Minimum Piping Diameter	3"
Weight	6 kg (13.2 lb)
Local Display	Alpha Numeric (ppm or raw signal)
Controls	External PC for events, history log, maintenance, configuration and calibration
Power Requirements	100-240 VAC 50/60 Hz, 1.5A max I Phase
Communication	Serial or TCP MODBUS
Process Pressure	10 psig - 150 psig
Process Temperature	0 to 90 Degrees C
Ambient Operating Temperature	-20 to 50 Degrees C
Response Time	1 second default (user adjustable from 0.5s to 60 s)
Calibration intervals	12 months (Typical)
Certification	CSA, CRN pending

AREA CLASSIFICATIONS OPTIONS

(Testing in Progress , Completion by July 2019)

- Class 1 Division 1
- Class 1 Division 2
- Zone 1 or Zone 2
- ATEX, IECEx, CE certificates available

AVAILABLE OPTIONS

- Concentration alarms
- Diagnostic/fault alarms
- Remote monitoring/control with PC

TECHNOLOGIES

- NIR/Fluorescence and ultrasonic

ANALYTICAL PERFORMANCE

- Sensor life: Avg. > 5-10 years



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