

OilGuard

On-line Oil in Water Analyzer



Applications

- Oil traces in raw water
- Oil trace monitoring in boiler water and condensate
- Oil trace monitoring in heat exchanger
- Effluent water monitoring
- Storm water monitoring

Industries

- Power plants
- Water treatment plants
- Oil industry

Advantages

- Well-proven UV-Fluorescence measuring principle
- True non-contact measurement in a free-fall stream
- Dual-beam optics for highest accuracy and stability
- Integrated operation panel with touch screen, color display and data logger
- Flexible, modular system
- Fast recalibration with checking unit
- Minimum maintenance requirements
- Correlates to any International recognized standard reference method

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Innovations with real benefits



Modular design

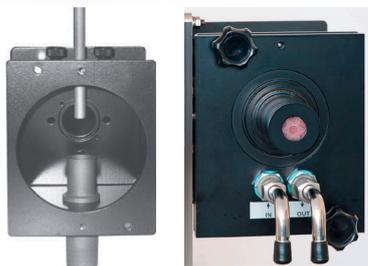
Three different measuring cells are available to suit application specific requirements:

- Closed flow cell for clean water and condensate.
 - Free-fall measuring cell in stainless steel 316L or PVDF for dirty water.
- Optional accessories:
- Wall mounting rack, big rack.
 - Sample preparation system.
 - Integrated sampling kit for QC purpose.

Lowest cost of ownership Negligible maintenance

SIGRIST's well-proven true non-contact measuring concept prevents the entire system from soiling. This leads into an amazing long maintenance interval:

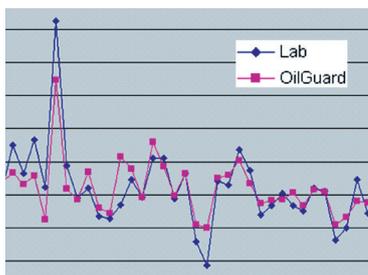
- No ultrasonic cleaning device is needed.
- The negligible maintenance is quick and easy, no special tools are required.



Reliable measurement

The instrument uses a sophisticated dual-beam optical setup with optimized wavelength configuration:

- Guarantees highest accuracy and stability of the measurement.
- Automatically compensates fluctuations and light source ageing.
- The relevant HC components are measured.
- Reduces the impact of solids.



Quick verification of the measurement

The verification and recalibration of the instrument is performed quickly by using a unique solid reference (secondary standard) from SIGRIST:

- No chemicals are needed for the calibration or cleaning.
- No special tools are required.



Integrated control unit

The control unit in the OilGuard is based on an integrated colour touch screen:

- Values, graphs, alarm- and status messages can be presented.
- An internal data logger allows recalling and displaying measured data from the last 32 days.



Technical Data

OilGuard Oil in Water Analyzer:

Measuring principle:	UV-Fluorescence
Measuring span:	0 .. 100 FLU 0 .. 1000 ppm oil ¹⁾ 8, freely configurable
Measuring ranges:	
Resolution:	+/- 0.001 FLU / +/- 2 % ²⁾
Reproducibility:	+/- 2 % ²⁾
Response time:	< 2 s
Material housing:	Sheet steel (ST1203), with synthetic resin finish
Ambient temperature:	-20 .. +50 °C / -4 .. +122 °F
Ambient humidity:	0 .. 100% RH
Protection degree:	IP65
Power supply:	230V 50/60 Hz, 100/115/130V
Power input max:	65 W
Dimensions:	35 x 50 x 70 cm (W x L x H) 14 x 20 x 27"
Weight:	37 kg / 82 lbs.

Closed flow cell:

Installation:	On-line side stream
Sample connection:	Inlet/outlet Ø 12 mm outside
Material, wetted parts:	Stainless steel 316L
Material housing:	Stainless steel 316L
Sample flow rate:	0.5 .. 2 l/min / 0.13 .. 0.5 gpm
Sample pressure:	max. 1MPa / 145 psi
Sample temperature:	max. +100 °C / +212 °F

Non-contact flow cells:

Installation:	On-line side stream
Material:	Stainless steel 316L or PVDF
Sample connection:	Stainless steel 316L: Inlet: Ø 12 mm Outlet: Ø 35 mm PVDF: Inlet: ¾" NTP / 16 mm Outlet: 2" NTP / 50 mm
Sample flow rate:	5 .. 7 l/min / 1.3 .. 1.9 gpm
Sample pressure:	atmospheric
Sample temperature:	Stainless steel 316L: max. +40 °C / +104 °F PVDF: max. +95 °C / +203 °F

Operation:

Display:	¼VGA, 5.7"
Operation panel:	Touchscreen
Outputs:	1 x 0/4 .. 20 mA, galvanic separated 5 x digital outputs 1 output as a relay freely configurable 5 x digital inputs, freely configurable
Inputs:	freely configurable
Digital Interface:	Ethernet, Modbus TCP, microSD-card
Optional:	HART, Profibus DP, Modbus RTU

Accessories:

- Sample conditioning system
- Sample feed pump
- Sample return pump
- Wall mounting rack, big rack
- Integrated sampling kit

¹⁾ Depending on the oil characteristics

²⁾ Referred to quinine sulfate in water

Your representative:



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PROCESS-PHOTOMETER

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