



# Online Oil in Water Analyzer

## OilGuard

Proven applications:

- ✓ Oil trace monitoring in boiler water and condensate
- ✓ Oil trace monitoring in heat exchangers
- ✓ Storm water monitoring
- ✓ Effluent water monitoring



# OilGuard power plants

## Online Oil in Water Analyzer

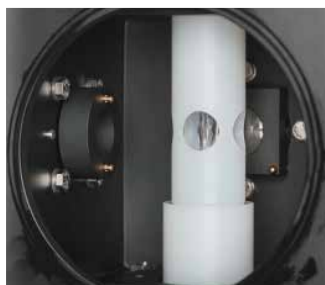
### Innovations with tangible benefits



#### Modular design

The OilGuard is engineered to withstand the harshest process conditions. The system can be tailored to suit specific installation requirements:

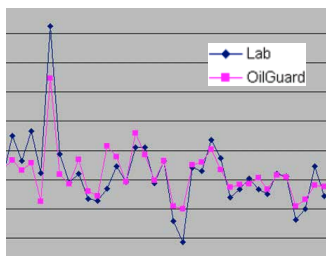
- Different measuring cells are available depending on the application.
- Select a single analyzer or a complete pre-mounted system.



#### Negligible maintenance / lowest life cycle costs

SIGRIST introduced the well-proven true non-contact measurement more than 40 years ago:

- no ultrasonic cleaning device is needed.
- Wetted parts in PVDF prevent scaling.
- Routine maintenance is quick and easy; no tools are required.



#### Reliable measurement

The instrument uses a sophisticated dual-beam 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.



#### User friendly touch-screen control

- Simple and clear operation.
- The display shows values, graphs, trends, status or alarm messages.
- An internal data logger allows recalling and displaying of measured data.
- Extensive communication options for smooth system integration.



#### Instant reading verification

Quick reading verifications and instrument recalibration with the unique secondary solid reference standard from Sigris:

- No chemicals are needed for recalibration or cleaning
- No special tooling is required

### Technical Data

#### OilGuard Ex Oil in Water Analyzer:

Measuring principle:	UV-Fluorescence
Measuring span:	0 .. 100 FLU 0 .. 1000 ppm oil*1) 8, freely configurable
Measuring ranges:	
Resolution:	+/- 0.5 %*2)
Reproducibility:	+/- 2 %*2)
Response time:	< 2 s
Material housing:	Sheet steel (ST 1203) with synthetic resin finish
Ambient temperature:	-4 .. +122 °F / -20 .. +50 °C
Ambient humidity:	0 .. 100 % RH
Protection degree:	IP 65
Power supply:	230 V 50/60 Hz, 100/115/130 V
Power input max:	65 W

#### Closed flow cell:

Installation:	Online side stream
Sample connection:	Inlet / outlet 12 mm
Material, wetted parts:	316L SS/1.4435
Sample flow rate:	0.13 .. 0.5 gpm / 0.5 .. 2 l/min
Sample pressure:	10 bar
Sample temperature:	max. 212 °F / 100 °C

#### Non-contact flow cells:

Installation:	Online side stream
Sample connection:	PVDF: Inlet: ¾"NTP / 16 mm Outlet: 2"NTP / 50 mm 316L: Inlet: 12 mm Outlet: 35 mm
Material, wetted parts:	PVDF or 316L SS / 1.4435
Sample flow rate:	1.3 .. 1.9 gpm / 5 .. 7 l/min
Sample pressure:	atmospheric
Sample temperature:	max. 203 °F / 95 °C

#### Dimensions:

Weight:	14 x 20 x 27" 35 x 50 x 70 cm (W x L x H) 82 lbs. / 37 kg
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#### Operation:

Display:	¼VGA, 5.7"
Operation panel:	Touch-screen
Inputs / Outputs:	4x 0/4 .. 20 mA, galvanic separated 7x digital outputs, 5x digital 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  
Mounting rack  
Integrated sampling point

\*1) Depending on the oil characteristics

\*2) Referred to quinine sulfate in water

Your representative:

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