MONITORING EXCELLENCE.

SIGRIST
PROCESS-PHOTOMETER

OilGuard Ex

On-line Oil in Water Analyzer

Applications

- Produced water discharge or reuse monitoring
- Monitoring effectiveness of oil separators
- Detection of oil leakage into cooling water/waste water
- Slop tank overboard discharge monitoring

Industries

- Crude oil production offshore & onshore
- Refineries
- Petrochemicals
- Power plants
- Ship building

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

OilGuard Ex

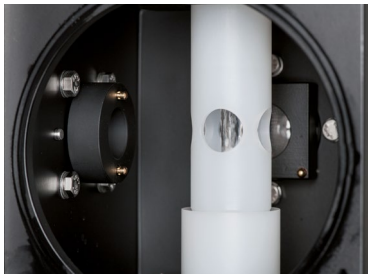
On-line Oil in Water Analyzer

Innovations with real benefits

Modular design

The system design can be tailored to suit specific installation requirements:

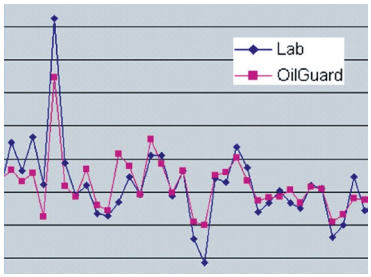
- 3 various measuring cells.
- Select a single analyzer or a complete pre-mounted system.
- Optional sample conditioning system, including pumps are available.
- Optional integrated sampling station for QC purpose.



Lowes cost of ownership
Negligible maintenance

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

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



Reliable measurement

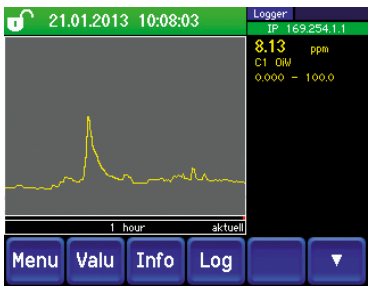
The instrument uses a sophisticated dual-beam optical setup with optimized wavelength configuration:

- Guarantees highest accuracy and stability of the measurement.
- Fluctuations and light source ageing are automatically compensated.
- The relevant HC components are measured.
- Reduces the impact of solids.

Instant reading verification

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

- No chemicals are needed for recalibration or cleaning.
- No special tooling is 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 upon customer desire.
- An internal data logger allows recalling and displaying measured data of the last 32 days.

Technical Data

OilGuard Ex Oil in Water Analyzer:

Measuring principle:	UV-Fluorescence
Measuring span:	0 .. 100 FLU 0 .. 1000 ppm oil*1)
Measuring ranges:	8, freely configurable
Resolution:	0.001 FLU*2)
Reproducibility:	+/– 0.002 FLU / +/– 2 %*2)
Response time:	< 2 s (step response → limit switch)
Installation:	On-line side stream
Sample connection:	Inlet: ¾" NTP / 16 mm Outlet: 2" NTP / 50 mm
Material, wetted parts:	PVDF
Material housing:	316L SS / 1.4404
Sample flow rate:	1.3 .. 1.9 gpm / 5 .. 7 l/min
Sample pressure:	atmospheric
Sample temperature:	max. +203 °F / +95 °C
Ambient temperature:	–4 .. +104 °F / –20 .. +40 °C (with cooling system max. 122 °F / 50 °C)
Ambient humidity:	0 .. 100% RH
Protection degree:	IP66
Ex protection class:	Ex px ib IIC T4 Gb
Power supply:	230V 50/60 Hz, 100/115/130V
Power input max:	65 W
Dimensions:	14 × 20 × 27" 35 × 50 × 70 cm (W × L × H)
Weight:	82 lbs. / 37 kg

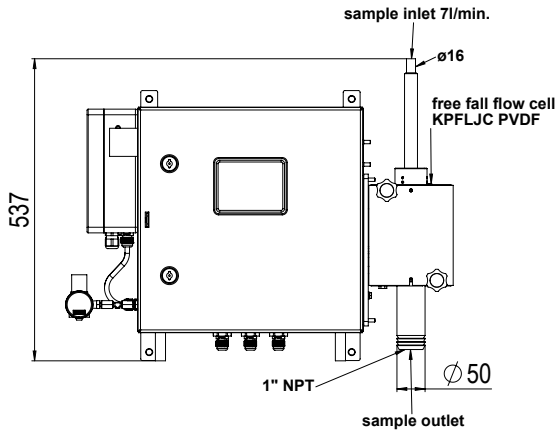
Operation:

Display:	¼VGA, 5.7"
Operation panel:	Touchscreen
Outputs:	1 × 0/4 .. 20 mA, galv. separated 2 × relay contacts, 3 × digital, freely configurable
Inputs:	4 × digital, 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 statutory sampling point

*1) Depending on the oil characteristics
*2) Referred to quinine sulfate in water



photometer.com/f62c

Your representative:

NATIONWIDE OIL & GAS
46, Jalan SS 22/21, Damansara Jaya,
47400 Petaling Jaya, Selangor Darul Ehsan, Malaysia.
Email: nog@nog.com.my
Web access: http://www.nog.com.my

SIGRIST
PROCESS-PHOTOMETER