sigrist photometer

OilGuard PR 30

In-line oil trace monitor for water treatment

Applications

- Monitoring of oil traces in raw water for potable use
- Monitoring of oil traces in process water and wastewater
- Monitoring of polyaromatic hydrocarbons

Industries

- Drinking water industry
- Industrial water treatment (Water reuse, wastewater)

Advantages

- Sensitive UV fluorescence measuring principle
- Easy re-calibration with secondary standard
- Integrated temperature measurement
- Various mechanical and electrical connection options
- Web interface

Innovations with tangible benefits

Oil trace detection directly in the water

The OilGuard PR 30 completes our portfolio of reliable oil-in-water analyzers.

- Oil traces are measured with zero water loss.
- Submersed or in-line installations possible.
- Ideal as watchdog at abstraction points

Sophisticated instrument design

The instrument is designed for long-levity and low operational costs.

- Tilted head design creates a self-cleaning effect with water flow
- Direct water temperature measurement included in sensor head
- Absorber unit reduces stray light and disturbances from surrounding light

Reproducible instrument calibration

With reproducible calibration we make sure that the instrument can be used as a reliable watchdog.

- Factory-calibration with international standard 16 EPA-PAH and conversion to oil equivalents (ISO 9377-2)
- Easy re-calibration with secondary standard (checking unit) in the field

System integration

The probe can be integrated in many different manners into your system.

Mechanical:	submersed installation, in-line installation, by-pass installation
Electrical:	8-wire cable with 1x 0/4 ... 20 mA and Modbus TCP output, WLAN-adapter, SICON C, SICON (M), etc.
Communication:	Profibus DP, Profinet IO, Modbus RTU

Main technical details

Measuring principle:	UV fluorescence
Nominal range:	0 ... 500 ug/L (ppb) 16 EPA-PAH
Measuring ranges:	8, freely programmable
Sample temperature:	0 ... 60°C
Protection class:	IP 68

Details and technical data:

sigrist.com

Sigrist-Photometer AG
Hofurlistrasse 1 · CH-6373 Ennetbürgen

+41 41 624 54 54
info@sigrist.com

OilGuard PR 30

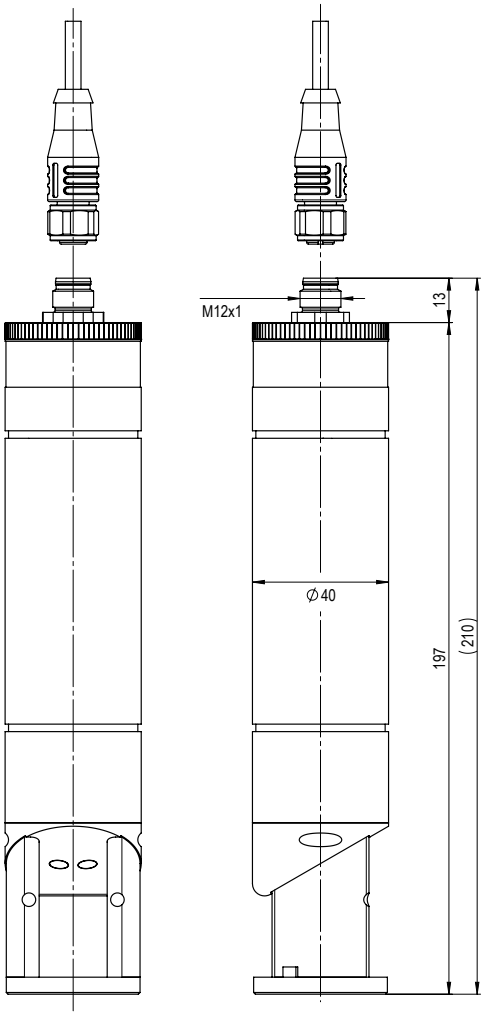
Technical data

Measuring principle:	UV fluorescence
Light source:	LED 280 nm
Nominal range:	0 ... 500µg/l (ppb) 16 EPA-PAH 0 ... 15 ppm (mineral oil according to ISO 9377-2) 4 ppb EPA-PAH = 1 ppm oil (ISO 9377-2) (±10% error)
Detection limit:	< 0.1 ug/L (ppb) 16 EPA-PAH
Measuring ranges:	8, freely programmable
Sample flow rate:	max. 3.0 m/s
Sample temperature:	0 ... 60°C
Sample Pressure:	max. 1.0 MPa (10 bar) @ 20 °C
Temperature measurement:	0 ... 60°C
Ambient temperature:	0 ... 50°C
Ambient humidity:	0 ... 100% rel.
H.Supply voltage:	24 +/- 10% VDC, galvanisch Galvancially separated by housing
Power input:	max. 2 W
Protection class:	IP 68
Housing:	Stainless steel (1.4571) PPSU, sapphire
Dimensions:	Ø 40 x 200 mm
Conformities:	CE, UKCA
Connections:	8-wire cable: - 1 × 0/4 .. 20 mA Output - 2 × digital outputs

Option Connection box Conn-R:
- 1 × 0/4 .. 20 mA Output
- 2× Relays Outputs 230 VAC, 4A
- Connector for SICON-C

Option SICON – SICON-M:
- Max. 8 × 0/4 .. 20 mA Outputs
- Max. 7 × digital Outputs
- Max. 5 digital Inputs
- Modbus TCP / Modbus RTU
- Profibus DP
- Conn-A for max. 8 Sensors
- Powerbox for max. 12 Relays

Option WLAN:
- IEEE 802.11b/g/n access with web server



Authorised Distributor:

NATIONWIDE OIL & GAS

46, Jalan SS 22/21, Damansara Jaya,
47400 Petaling Jaya,
Selangor Darul Ehsan, Malaysia.
Email: nog@nog.com.my
Website: www.nog.com.my