

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

Advantages

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

Industries

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

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-adaptor, 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:



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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) < 0.1 µg/L (ppb) 16 EPA-PAH
Detection limit:	< 0.1 µg/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 Galvanically separated by housing max. 2 W
Power input:	
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 x 0/4 .. 20 mA Output - 2 x digital outputs
	Option Connection box Conn-R: - 1 x 0/4 .. 20 mA Output - 2 x Relays Outputs 230 VAC, 4A - Connector for SICON-C
	Option SICON - SICON-M: - Max. 8 x 0/4 .. 20 mA Outputs - Max. 7 x 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

