



# OilGuard 2 W

**On-line oil trace monitor for water treatment** 



## Applications

- Monitoring oil traces in raw water
- Monitoring oil traces in process and waste water
- Monitoring of polyaromatic HC

### **Advantages**

- Proven UV fluorescence measuring principle
- Re-calibration with secondary standard (fully automatic at model A)
- Measurement also possible in turbid water
- Convenient operation via colour touchscreen display
- Display of values and / or graphs visualizing the measurements of the past month

- Correlates with all internationally acknowledged reference methods

### Industries

- Drinking water treatment
- Waste water treatment
- Industrial waste water

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## Innovations with tangible benefits

#### Non-contact free-fall measurement

The OilGuard 2 W detects oil traces in a free-falling stream that eliminates contact between the water and the optics.

- There are no reading falsifications resulting from window soiling
- Low and high values can be measured precisely
- The measurement of the complete sample stream provides a representative result
- There is an extremely low need for maintenance

#### **Extremely high resolution**

The ingenious instrument design of the OilGuard 2 W in combination with the high quality of its optical components minimizes the effect of interferences. Thus, even the smallest traces of oil can be detected.

- A stable measurement below 1µg/l (ppb EPA-PAH) is possible
- A stable zero point guarantees the long-term stability of the measurement

### Adjusting the instrument to customer specific oils

The instrument can be adapted to various types of oil to meet customer requirements.

Checking the instrument is easy with corresponding solutions. The instrument's factory setting is calibrated with 16 EPA-PAH standard. The OilGuard 2W can be recalibrated by the customer with a secondary standard (solid reference).

- Exact re-calibration without use of chemicals in the field
- Reliable conversion factor to standard mineral oil (ISO 9377-2)
- Can be used as watchdog for oil measurement

## Integrated control unit

The OilGuard 2 W has a touchscreen with colour display.

- Values, graphs, states or alarms can be displayed, respectively
- An internal data logger allows the visualisation of the measured data covering the past 32 days

#### Main technical details Measuring principle:

Light source: Measuring span:

Measuring ranges: Resolution: Protection: Sample flow: UV fluorescence LED 280 nm 0 ... 3000µg/l (ppb) 16 EPA-PAH 0 ... 100 ppm (mineral oil according to ISO 9377-2) 4 ppb EPA-PAH (±10% error) = 1 ppm oil (ISO 9377-2)\* 8, freely programmable 0.01µg/l (ppb)\*\* IP54 min. 3 l/min



Full details and technical data:

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\* ISO oil setting as watchdog

\*\* Calibration with 16 EPA-PAH standard





# **OilGuard 2 W**

**UV fluorescence** 

0 ... 3000µg/l (ppb) 16 EPA-PAH

0 ... 100 ppm (mineral oil according to

LED 280 nm

ISO 9377-2)

(ISO 9377-2)\* 0 ... 50µg/l (ppb)\*\*

0.01µg/l (ppb)\*\*

<0.1µg/l (ppb)\*\*

0 ... +50 °C

IP54

-10 ... +50 °C

0 ... 100 % rel.

18 ... 30 VDC, optional:

max.8W

8, freely programmable

**Technical data** 

**Technical data** Measuring principle: Light source: Measuring span:

Lowest measuring range:

Measuring ranges: Resolution: **Detection limit:** 

Sample temperature: Ambient temperature: Ambient humidity: Protection:

Power supply:

Power consumption max:

#### Installation

Sample inlet / drain: Sample flow: Sample inlet / drain:

Tube connection inside Ø 12/25 mm min. 3 l/min SS 316 L/ PVC

100 ... 240 VAC, 47 ... 63 Hz

\* ISO oil setting as watchdog \*\* Calibration with 16 EPA-PAH standard

#### **Control unit**

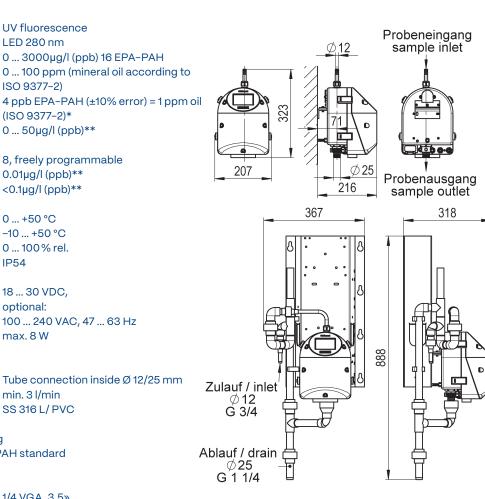
Display: Operation: Output:

Input:

Digital interfaces: **Optional:** 

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1/4 VGA, 3.5» Touchscreen 2 × 0/4 ... 20 mA, galv. isolated 2 × relay 250 VAC, 4A 1× for option. flowmeter for OilGuard 2 W A 2 × 0/4 ... 20 mA Ethernet, Modbus TCP, SD card Profibus DP, Modbus RTU, Profinet IO



Authorised Distributor:



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