

# 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

## Industries

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

## 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

## 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:	UV fluorescence
Light source:	LED 280 nm
Measuring span:	0 ... 800µg/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)*
Measuring ranges:	8, freely programmable
Resolution:	0.01µg/l (ppb)**
Protection:	IP66
Sample flow:	min. 3 l/min

\* ISO oil setting as watchdog

\*\* Calibration with 16 EPA-PAH standard

Full details and  
technical data:



# OilGuard 2 W

## Technical data

### Technical data

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Measuring span:	0 ... 800 µg/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)*
Lowest measuring range:	3 µg/l (ppb)**
Measuring ranges:	8, freely programmable
Resolution:	0.01µg/l (ppb)**
Detection limit:	<0.1µg/l (ppb)**
Sample temperature:	0 ... +50 °C
Ambient temperature:	-10 ... +50 °C
Ambient humidity:	0 ... 100% rel.
Protection:	IP66
Power supply:	18 ... 30 VDC, optional: 100 ... 240 VAC, 47 ... 63 Hz
Power consumption max:	max. 8 W

### Installation

Sample inlet / drain:	Tube connection inside Ø 12/25 mm
Sample flow:	min. 3 l/min
Sample inlet / drain:	SS 316 L/ PVC

\* ISO oil setting as watchdog

\*\* Calibration with 16 EPA-PAH standard

### Control unit

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

