

# ScrubberGuard

Measuring system for monitoring wash water of exhaust gas cleaning systems



## Applications

- Monitoring wash water of exhaust gas cleaning systems

## Industries

- Shipping industry

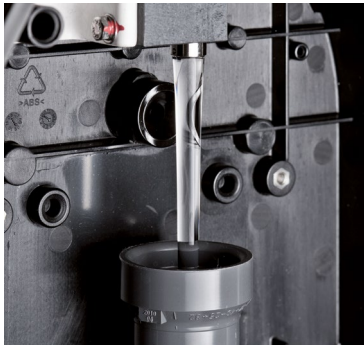
## Advantages

- True non-contact free-fall measurement of turbidity and PAH (polycyclic aromatic hydrocarbons) guarantees consistent true measurement values
- Calibration with secondary standard possible at any time
- Extremely low maintenance
- Compact and certified all-in-one system
- Central, integrated control unit with colour touch-screen
- Display of values and / or graphs with visualization of the measured data covering the past 32 days.

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## Innovations with tangible benefits



### No window fouling as a result of the non-contact free-fall measurement

The AquaScat and the OilGuard measure turbidity or the PAH content, respectively, in a free-fall water stream. There is no contact between the water and the optics.

- No reading falsifications as a result of window fouling
- The true measurements are always guaranteed
- Extremely low maintenance



### Re-calibration with secondary standard

At SigrisT, the AquaScat is calibrated with formazine, the OilGuard with phenanthrene. For recalibration at the customer, a secondary standard (solid standard) is available.

- Exact re-calibration without formazine/phenanthrene
- No chemicals necessary
- Low total cost of ownership

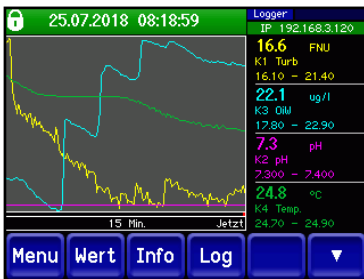


### Compact all-in-one system

- Simple installation, only the rack has to be mounted at the floor and power / water be connected
- Multitude of communication options

### Modular design

- For a simple integration and adaptation to individual operation conditions.



### Integrated control unit

The instrument is operated via a touch screen with colour display.

- Values, graphs, states or alarms can be displayed, as selected.
- An internal data logger allows the visualisation of the measured data covering the past 32 days.
- Extensive communication options incl. integrated web server

## Technical data

### ScrubberGuard System

Dimensions:	approx. 1280x880x400mm (h/w/d)
Sample temperature:	0..+50°C
Sample flow:	min. 4l/min
Max. pressure:	0.4 Mpa (4 bar)
Max. ambient temperature:	+50°C
Ambient humidity:	0.. 100% rel.h.
Protection:	min. IP 54
Power supply:	215..240VAC, 47 .. 53 Hz
Power consumption:	500W (900W incl. inlet pump)
List:	Reliable measurement up to 20°, measurement possible up to 30° (all axes)
Weight:	approx. 100 kg

### Materials

Structure:	St 1.0038, powder coated
In contact with medium:	316L, 1.4301, PVC-U (+GF+), FKM
Pumphead:	316L; Viton® and PPE
Impeller:	Viton®

### Operation and interfaces

Display:	1/4 VGA, 3.5"
Operation:	Touchscreen
Outputs:	4 x 0/4.. 20mA 4 x digital outputs 2 x relays 250 VAC 4A freely configurable
Inputs:	2 x 0/4..20mA 4 x digital inputs freely configurable
Digital interfaces:	Ethernet, Modbus TCP, microSD card
Optional:	Profibus DP, Modbus RTU, HART, Profinet IO

### Connection dimensions

Electr. conn. dim.:	0.25-4mm <sup>2</sup> , AWG 22-12
Hydr. connection:	R1"

### Turbidity measurement

Measuring principle:	90° scattered light acc. to standard ISO7027/EN27027
Measured value:	FNU
Measuring range:	0...1000 FNU

### Oil-in-water measurement

Measuring principle:	UV fluorescence acc. to MEPC.259(68)
Measured value:	Phenanthrene equivalent
Measuring range:	0-1000 µg/l phenanthrene equivalent

### pH/temperature sensor

Measuring principle pH:	Glas electrode
Measured pH:	pH
Measuring range pH:	0-14 pH
Meas. principle:	NTC 22 kΩ
Measured temperature:	°C, K, °F
Meas. range temperature:	0 - 130°C



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