

ScrubberGuard

Measuring system for Scrubber wash water monitoring



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
- 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
- Low maintenance



Re-calibration with secondary standard

At SIGRIST, the AquaScat is calibrated with formazine, the OilGuard with phenanthrene. For a recalibration at customer site, a secondary standard (solid) is delivered with each instrument.

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

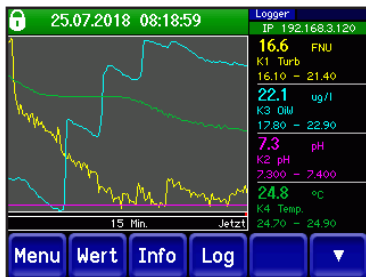


Compact all-in-one system

- Simple installation by fixing the rack on the floor, connecting power and in- and outlet for the sample
- 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. 1280x880x400 mm (h/w/d)
Sample temperature:	0 ... +50 °C
Sample flow:	min. 5 l/min
Max. pressure:	0,3 Mpa (3 bar)
Max. ambient temperature:	+50 °C
Ambient humidity:	0 ... 100% rel.h.
Protection index:	IP 54
Power supply:	220V/60 Hz, 230V/50 Hz
Power consumption:	650 W (1050 W incl. inlet pump)
List:	Reliable measurement up to 20°, measurement possible up to 30° (all axes)
Weight:	approx. 100 kg

Materials

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

Operation and interfaces

Display:	1/4 VGA, 3.5"
Operation:	Touchscreen
Inputs:	1 x digital input for Remote Control
Digital interfaces:	Ethernet, Modbus TCP, microSD card
Optional:	Profibus DP, Modbus RTU, HART, Profinet IO, USB Memory
Outputs (optional):	4 x 0/4 ... 20 mA 4 x digital outputs 2 x relays freely configurable

Connection dimensions

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

Turbidity measurement

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

Oil-in-water measurement

Measuring principle:	UV fluorescence acc. to MEPC.259(68) and MEPC.340(77) Phenanthrene equivalent
Unit:	Phenanthrene equivalent
Measuring range:	0-1000 µg/l phenanthrene equivalent

pH/temperature sensor

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



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