

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 touchscreen
- Display of values and / or graphs with visualization of the measured data covering the past 32 days.

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Innovations with tanigble benefits



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

The AguaScat 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

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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:

0..+50°C Sample temperature: Sample flow: min. 4l/min 0.3 Mpa (3 bar) Max. pressure: +50°C Max. ambient temperature:

0.. 100% rel.h. Ambient humidity: IP 54 Protection index:

Power supply: Power consumption: List:

220V/60Hz, 230V/50Hz 650W (1050W incl. inlet pump) Reliable measurement up to 20° measurement possible up to 30°

(h/w/d)

approx 1280x880x400mm

(all axes) approx.100 kg Weight:

Materials

Inputs:

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

Operation and interfaces

1/4 VGA, 3.5" Display: Operation: Touchscreen Outputs: 4 x 0/4.. 20mA 4 x digital outputs

2 x relays freely configurable 1 x digital input for Remote

Control Digital interfaces: Ethernet, Modbus TCP, microSD

Optional: Profibus DP, Modbus RTU, HART,

Profinet IO, USB Memory

Connection dimensions

0.25-4mm², AWG 22-12 Electr. conn. dim.: Hydr. connection:

Turbidity measurement

Measuring principle: 90° scattered light acc. to standard ISO7027/EN27027

FNU

Measuring range: 0...1000 FNU

Oil-in-water measurement

Measuring principle: UV fluorescence acc. to

MEPC.259(68) Phenanthrene equivalent Unit: Measuring range: 0-1000 µg/l phenanthrene equivalent

pH/temperature sensor

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



