



AquaScat S Mobile

Self-sufficient, portable turbidity measuring system



Certificates





ACS (Attestation Conformité Sanitaire)

The AquaScat S Mobile combines continuous turbidity measurement and control with mobility. This allows easy access to vital information about the condition of the sample water at critical points throughout the water treatment and distribution process. It is the field instrument for turbidity measurement with the highest accuracy and sensitivity on the market in the mFNU range.

Applications

- Monitoring turbidity in the pipe network (< 1.0 FNU) in accordance with the drinking water ordinance (TWV 2018)
- Sporadic measurements at critical points
- Mobility within the water treatment and the supply area
- Use in case of customer complaints

Characteristics

- Quickly ready to use
- Easy to transport
- Compact design with robust suitcase housing
- Fast calibration with control unit
- Precise measurement with display
- Data acquisition also via USB interface
- Mains-independent power supply
- Additional temperature measurement with submerge version

Industries

- Drinking water treatment and distribution
- Waste water and process water treatment
- Beverage and food industry

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Innovations with true customer benefits

Mobile measuring sensor

- Portable and robust suitcase with AquaScat S, suitable for mobile, every-day use
- Reliable control unit SICON with data storage covering more than 32 days
- Self-contained power supply
- Robust connection cable to the probe with generous freedom of movement

Precise measurement directly in water

- Turbidity values of a few mFNU
- Integrated temperature measurement

The absorber

- Enables use even outside of dark lines
- Supresses ambient light
- Ensures precise measured value without interferences

SICON - Fully-fledged control unit

- Displays measured value and measurement history
- Displays functions from setting the desired measuring range to calibration
- Data acquisition via USB interface

Checking unit

AquaScat S is factory calibrated with formazine. For recalibration in operation, a secondary turbidity standard (solid glass body) is available:

- Precise recalibration is possible without the use of formazine.
- Purchase, storage and handling of formazine is not necessary.
- Is optionally available

Possible uses

Different measurements are possible:

- In an open container or channel
- In a sample vessel or in wells or spring shafts
- In open water bodies such as dams

Accessories

- Checking unit
- Additional battery

For a wide variety of mounting options and accessories, please contact our representative or for technical questions: **support@sigrist.com**

Main technical details

Measuring principle: Measuring span: Measuring ranges: Resolution: Sample temperature: Protection: Battery life: 90° scattered light according to ISO 7027/EN27027 0 ... 4'000 FNU 8, freely programmable 0.001 FNU 0 °C ... +60 °C IP68 (electrical connector IP67) max. 20 h



Full details and technical data:

+41 41 624 54 54 info@sigrist.com







AquaScat S Mobile Technical data

AquaScat S Measuring principle:

Light source: Measuring span: Measuring ranges: **Resolution:** Sample temperature: Temperature measurement: 0 °C ... +60 °C (submerge

Resolution tempeature measurement: Pressure: Sample flow: Ambient temperature: Ambient humidity: Protection:

Power supply:

Power consumption: Materials:

Dimensions: Cable length to SICON:

Control unit SICON Power supply:

Display: **Operation:** Ambient temperature: Ambient humidity: Protection: Output:

Input:

Digital interfaces:

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90° scattered light according to ISO 7027/EN27027 LED 860 nm 0 ... 4'000 FNU 8, freely programmable 0.001 FNU 0 °C ... +60 °C version)

0.1 °C

max. 10 bar @ 20 °C max. 3.0 m/s 0 °C ... +45 °C 0 ... 100% rel. IP68 (electrical connector IP67) 24 VDC +/-10%, galv. isolated from housing max. 2 W stainless steel 1.4571, PPSU, sapphire Ø 40 × 200 mm 10 m

9 ... 30 VDCPol on GND von 248 W (with instrument) 1/4 VGA, 3.5" Touchscreen -10 ... +50 °C 0 ... 100 % rel. h. **IP66** 4 × 0/4 ... 20 mA, galv. isolated 7 × digital 5 × digital, freely configurable Ethernet, microSD card, USB A Modbus TCP

Optional modules (max. 2):

Power bank

Battery life:

Battery capacity:

Modbus **RTU, HART** 4 × 0/4 ... 20 mA output, galv. isolated 4 × 0/4 ... 20 mA input

Profinet, Profibus DP,

20 Ah max. 20 h



Sigrist-Photometer AG Hofurlistrasse 1 · CH-6373 Ennetbürgen