sigrist photometer

AquaScat 2 HT

On-line turbidity meter for water treatment

Applications
- Turbidity measurement in untreated water
- Turbidity in sedimentation stage
- Turbidity before/after filtration stage

Industries
- Drinking water treatment
- Waste water treatment
- Process water in various industries

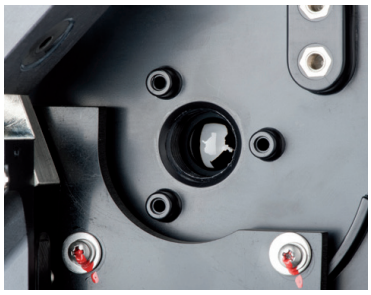
Advantages
- Non-contact free-fall measurement; optics are not contaminated
- Simple verification with a solids reference
- Extremely low background turbidity
- Extremely low maintenance
- Convenient operation via colour touchscreen display
- Display of values and / or graphics

Innovations with real benefits

Non-contact free-fall measurement

The AquaScat 2 HT measures the turbidity of the water in free fall – without any contact with the optical unit.

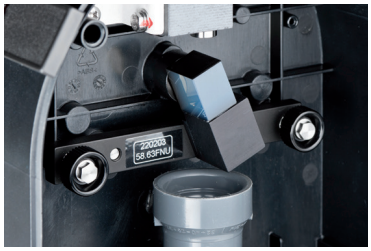
- The measuring windows remain clean and do not need to be cleaned, even with high turbidity
- Minimal maintenance thanks to non-contact measurement
- Precise results over the entire turbidity range



Application areas of the AquaScat 2 HT

Thanks to the innovative free-fall measurement, the device is particularly suitable for applications with higher turbidity values.

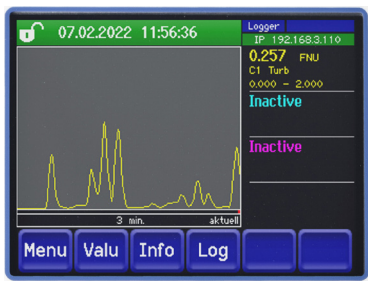
- Non-contact technology: no contact with the optics – no drift due to contamination
- Ideally suited for raw water control and monitoring of filtration processes
- The device is optimised for higher turbidities > 10 FNU



AquaScat 2 HT Calibration with secondary turbidity standard

The AquaScat 2 HT is calibrated with formazin at the factory. A secondary turbidity standard (solid reference) is available for recalibration during operation.

- Precise recalibration without toxic formazin
- Solids reference is read onto the device at the factory
- Less time required



Integrated control unit

The AquaScat 2 HT has a touchscreen with colour display.

- The display shows optional values, graphics, status and alarm messages.
- An internal data memory enables the visualisation of the measurement data over the last 32 days.

Main technical details

Measuring principle:	90° scattered light in accordance with ISO 7027/EN27027 standard
Light source:	LED 870 nm
Measuring range:	0 ... 4000 FNU
Accuracy*:	0 – 10 FNU: ±0.1 FNU, or ±1% full range 10 – 4000 FNU: ±1.5%
Resolution:	0.1 FNU

* based on factory standard

Full details and technical data:

sigrist.com

Sigrist-Photometer AG
Hofurlistrasse 1 · CH-6373 Ennetbürgen

+41 41 624 54 54
info@sigrist.com

AquaScat 2 HT

Technical data

Device data

Measuring principle:	90° scattered light in accordance with standard ISO 7027/EN27027
Light source:	LED 870 nm
Measuring range:	0 ... 4000 FNU
Accuracy*:	0 – 10 FNU: ±0.1 FNU, or ±1% full range 10 – 4000 FNU: ±1.5%
Resolution:	0.1 FNU
Repeatability:	0.1 FNU or ± 0.1%
Sample temperature:	0 ... +40 °C
Ambient temperature:	–10 ... +50 °C
Ambient humidity:	0 ... 100 % rel.
Protection (Electronics):	IP66
Power supply:	18 ... 30 VDC
Power consumption max:	8 W

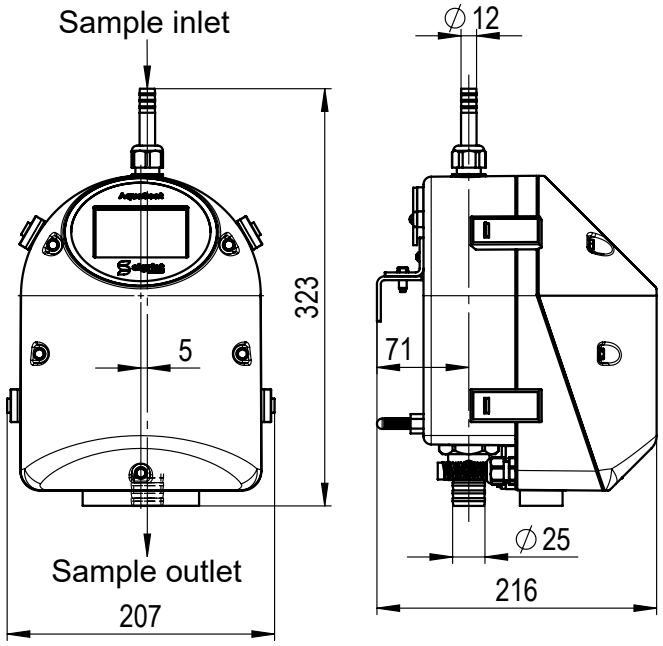
Installation

Sample inlet / outlet:	Hose connection with internal Ø 12/25 mm
Sample flow rate:	min. 1.3 l/min, unpressurised
Material inlet / outlet:	Stainless steel 1.4435 / PVC

Operating unit

Display:	1/4 VGA, 3.5″
Operation:	Touchscreen
Outputs:	2 × 0/4 ... 20 mA, galvanically isolated 2 × relays 250 VAC, 4A
Inputs:	1 × for optional flow meter 2 × 0/4 ... Flow meter 2 × 0/4 ... 20 mA
Digital interfaces:	Ethernet, Modbus TCP, SD card
Optional:	– Profibus DP, Profinet IO, Modbus RTU – analogue

* based on factory standard, sample flow 2.5 l/min



Authorised Distributor:

AMPMECH
46, Jalan SS 22/21, Damansara Jaya,
47400 Petaling Jaya,
Selangor Darul Ehsan, Malaysia.
Email: ampmech@ampmech.com
Website: www.ampmech.com

Sigrist-Photometer AG
Hofurlistrasse 1 · CH-6373 Ennetbürgen
+41 41 624 54 54
info@sigrist.com

sigrist.com