



# 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

#### **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

## **Industries**

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

# 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 LED 870 nm

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% 0.1 FNU

\* based on factory standard

Resolution:

Full details and technical data:







# 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% 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

Resolution:

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:  $2 \times 0/4 \dots 20 \text{ mA}$ , galvanically

isolated

2 × relays 250 VAC, 4A Inputs: 1× for optional flow meter

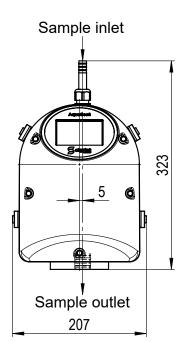
> 2 × 0/4 ... Flow meter 2 × 0/4 ... 20 mA

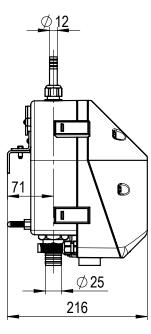
Digital interfaces: Ethernet, Modbus TCP,

SD card

Optional: - Profibus DP, Profinet IO,

Modbus RTU
- analogue







<sup>\*</sup> based on factory standard, sample flow 2.5 l/min