

# 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 |
| 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:



# AquaScat 2 HT

## Technical data

### Device data

|                           |  |
|---------------------------|--|
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| 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  |

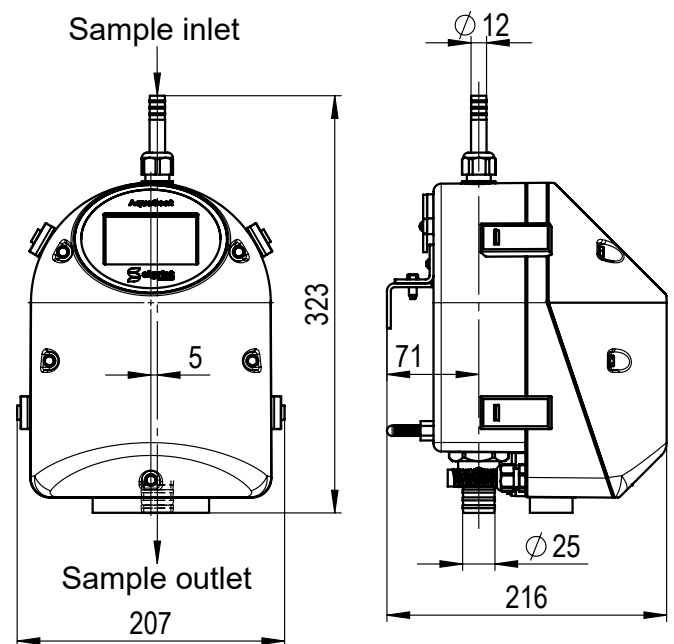
### Installation

|                          |  |
|--------------------------|--|
| 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<br>2 × relays 250 VAC, 4A         |
| Inputs:             | 1 × for optional flow meter<br>2 × 0/4 ... Flow meter<br>2 × 0/4 ... 20 mA |
| Digital interfaces: | Ethernet, Modbus TCP, SD card  |
| Optional:           | - Profibus DP, Profinet IO, Modbus RTU<br>- analogue                       |

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



### Authorised Distributor:



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