Industrial
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AquaScat 2 WTM

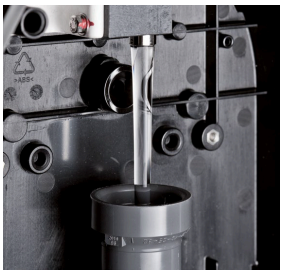
In-line turbidity measurement for the water treatment

Product Description

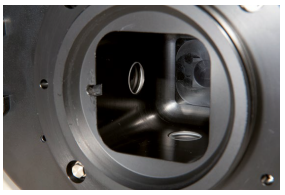
AcquaScat 2 WTM measures turbidity in raw, treated, and process water, ensuring continuous control in potable water plants, industrial systems, and wastewater treatment. Its non-contact free-fall measurement or optimized cell design provides high precision, extremely low stray light, and virtually maintenance-free operation. The touchscreen enables easy use with immediate visualization of values and monthly trends.

Benefits

Non-contact free-fall concept
Water passes through the AquaScat models WTM, WTM A and HT without touching the optics.
-No window fouling and hence, the measured values are not falsified.
-Very low and high turbidity values can be measured precisely.
-The entire sample beam is measured which leads to true representative results.
-Extremely low maintenance is the result.



Dual beam concept
At the AquaScat P, transmitted light and scattered light are measured and taken into consideration. The cell is large and the machining is of high quality.
-The influence of the cell contamination is reduced substantially.
-Possible interference by colour is completely eliminated.
-Cell cleaning is minimised.



Very low quantity of stray light
The design of the AquaScat in combination with high quality optical components minimizes the quantity of stray light inside.
-A stable measurement of a few mFNU turbidity is therefore possible.
-Very low zero drift provides excellent long term stability.

Re-calibration with secondary standard
Formazine is used in the factory to calibrate the AquaScat after assembly. For re-calibration, a secondary standard (Zerodur® glass body) is available.
-Precise re-calibration is possible without the use of Formazine.
-In the AquaScat WTM A, this re-calibration is done automatically without stopping the waterflow.

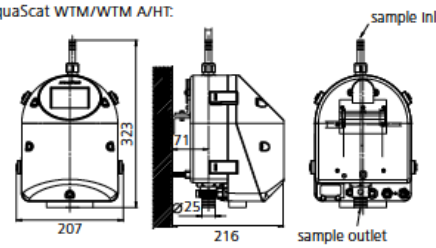
Integrated control unit
The control unit of all the AquaScat family is an integrated colour touch screen.
-Values, graphs, alarm- and status messages can be presented.
-An internal data logger allows recalling and displaying measured data of the last 32 days.

Datasheet **AcquaScat_2_WTM_enrev260423** – subject to change. All trademarks are the property of their respective registrants. The images are provided for illustration purposes only; the final product may differ from the image. **Copyright © 2026 tt group Industrial** – www.tt-group.it

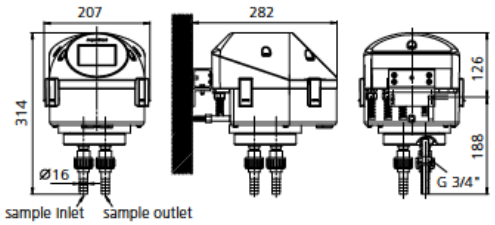
Technical data

Measuring principle	90° Scattered light according to ISO 7027/EN27027
Light source	LED 880 nm
Measuring span	0 .. 4'000 NTU (WTM, WTM A, HT) 0 .. 100 FNU (P)
Measuring ranges	8, freely programmable
Resolution	0.001 FNU (WTM, WTM A, P); 0.1 FNU (HT)
Sample temperature	0 .. +40 °C
Ambient temperature	–10 .. +50 °C
Humidity	0 .. 100% rel.
Protection	IP 54 (WTM, WTM A, HT); IP 65 (P)
Power supply	18 .. 30 VDC, optional: 100 .. 240 VAC, 47 .. 63Hz
Power consumption max.	8 W
Installation models WTM/HT	
Sample inlet/outlet	Hoses of inner ø 12/25mm
Sample flow	min. 1.3 l/min, atmospheric pressure
Material inlet/outlet	SS 316L/PVC
Installation model P	
Sample inlet/outlet	Hoses of inner ø 16/16mm or GF-System G¾"
Sample flow	0.2 .. 2 l/min
Pressure	max. 10 bar @ 20 °C
Material: Cell/inlet&outlet	POM/PVC
Control Unit:	
Display	1/4 VGA, 3.5"
Operation	Touchscreen
Outputs	2 × 0/4 .. 20 mA, galv. isolated 2 × Relays 250 VAC, 4A
Inputs	1 × for optional flow meter 2 × 0/4 .. 20 mA
Digital interfaces	Ethernet, Modbus TCP, SD-card
Optional	Profibus DP, Modbus RTU

AquaScat WTM/WTM A/HT:



AquaScat P:



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