

AquaScat 2 HT



Non-contact free-fall concept

Water passes through the AquaScat without touching the optics:

- » No window fouling. Hence, the measured values are not falsified and there is no drift.
- » Low (few FNU) to very high turbidity values can be measured
- » Even high turbidity values do not contaminate the optics
- » Existing dissolved metals like iron, manganese... do not contaminate the optics
- » Extremely low maintenance is the result

Measuring light passes through the entire sample beam:

- » There is no selection of the sample at the surface. The entire water beam is measured and hence, the result is representative.



Re-calibration with secondary standard

(Solid glass body)

- » Precise re-calibration is possible without the use of Formazine
- » Allows a stable measurement over a long time period
- » Purchase and storage of Formazine is not needed



Low level of „stray light“

(Quantity of light that is still visible even though there are no particles in the water ► External light + internal reflections + molecular scatter)

The design of the AquaScat in combination with high quality optical components minimizes the quantity of stray light inside the instrument:

- » A stable measurement of low turbidity levels is possible
- » The extremely low zero drift grants long term stability of the measurement

	<h3>Control Unit</h3> <p>The control unit of all AquaScat is a colour touch screen:</p> <ul style="list-style-type: none"> » The control unit is integrated » Values, graphs, alarm- and status messages can be presented upon customer desire » An internal data logger allows recalling and displaying measured data of the last 32 days » Password protection avoids unauthorized access » Various means of communication including an integrated web server offer flexibility in data transfer
	<h3>Cost of ownership</h3> <p>Next to technical features, the product design was focused on long live time of the instrument and low maintenance needs:</p> <ul style="list-style-type: none"> » The maintenance work is very low » The cost for consumables during 10 years of operation are at CHF 75.00 » The cost for spare parts are very low
	<h3>Turbidity measurement application</h3> <ul style="list-style-type: none"> » The installation is simple » Upon necessity, a de-aeration system can be installed » 2 Analogue output offer to transfer two measuring ranges to the PLC