





# 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)

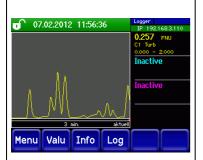
The design of the AguaScat in combination with high quality optical components minimizes the quantity of stray light inside the instrument:

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

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### **Control Unit**

The control unit of all AquaScat is a colour touch screen:

- » 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



# Cost of ownership

Next to technical features, the product design was focused on long live time of the instrument and low maintenance needs:

- » 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



# **Turbidity measurement application**

- » 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



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