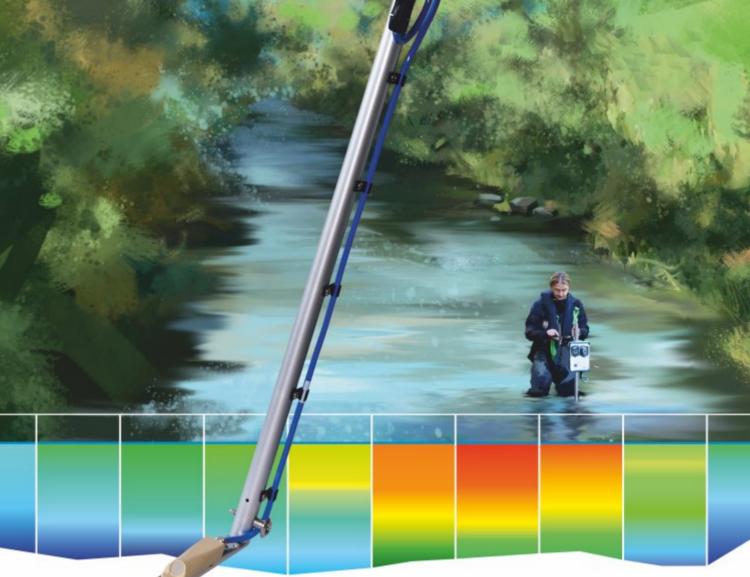
measure analyse optimise





NivuFlow Stick



Mobile Measuring System for Discharge Measurement in Flowing Waters

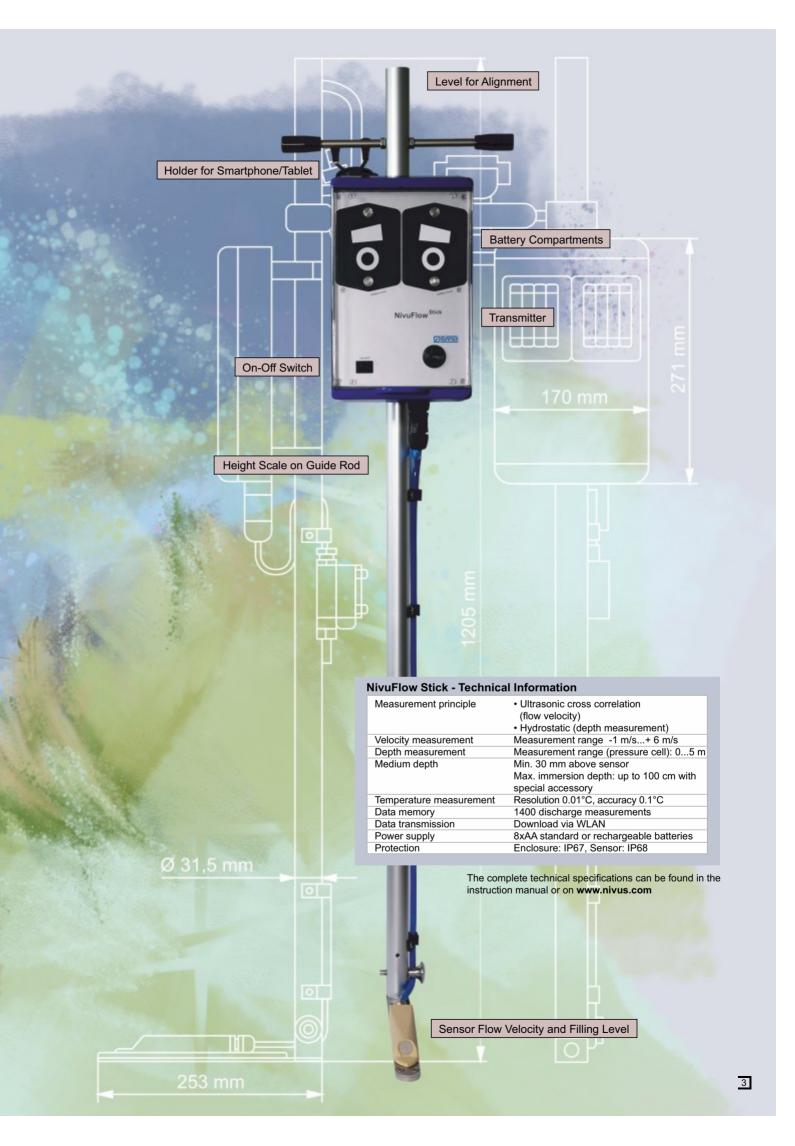
The NivuFlow Stick

NivuFlow Stick enables reliable and convenient discharge measurements in rivers, streams and canals.

The compact system can be easily transported in any car and is ready for use within seconds. Convenient operation via smartphone or tablet makes measurements simple and intuitive. With a short briefing, even users who have never worked with this device before can immediately perform error-free and reliable measurements. The system contains no wearing parts and is maintenance-free. All components are weight-optimised and compactly attached to the holding rod,

which makes handling in the water effortless and safe. The stored data can be read out directly on site via WLAN. Previous measurements can be loaded and visualised. Deviations in the measurement quality are signalled by the system and the quality indication is always stored in the data. The system is unique worldwide in the simplicity of its operation and the speed with which a measurement can be carried out.

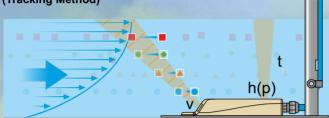




Measuring with NivuFlow Stick

The flow velocity is measured by the ultrasonic cross correlation measurement principle. Thanks to this technology, the sensor can measure velocities at different water depths with high resolution. This brings a great advantage in terms of measuring time as well as a more accurate determination of the flow velocity curve. Our cross correlation sensors are equipped with a pressure measurement cell for reliable level measurement.

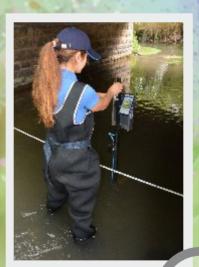
Measuring Principle: Cross Correlation Method (Tracking Method)



Scatterers (particles, minerals or gas inclusions) present in the medium are scanned with ultrasonic impulses and stored as an echo pattern. Further scans take place in the millisecond range. The position of the particles is determined via the transit time of the ultrasound. A comparison of the time-delayed signals allows the flow velocity to be calculated. This results in a profile of the flow velocities from the bottom to the surface.







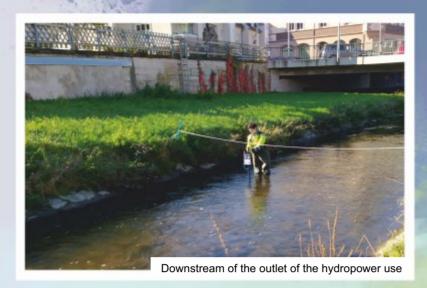
measure



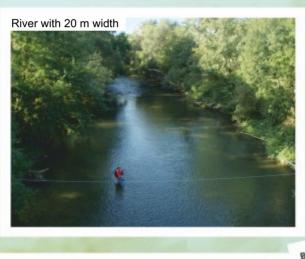
7 min done

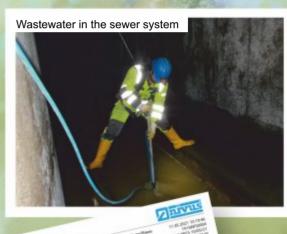


The NivuFlow Stick in Use

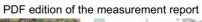
















The compact system can also be operated very efficiently with two persons. While one person measures, the second person evaluates the measurement data.





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