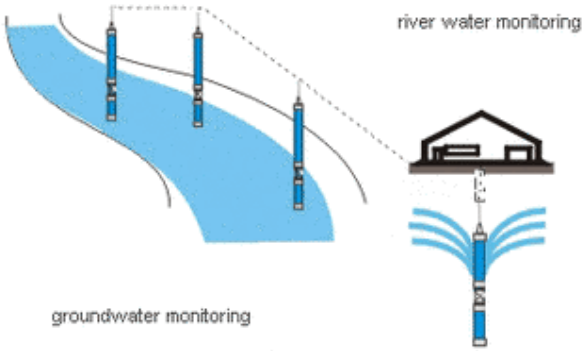
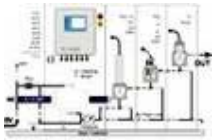
Waters-Applications



Water Quality Monitoring Station



The s::can Water Quality Monitoring Station – a modular combination of one s::can terminal, several s::can probes and flow-through-cells – minimizes the complexity of water analysis to Plug & Measure Monitoring.

For more information click here.

Environmental Monitoring

s::can instruments are ideal to monitor all kind of natural waters: rivers, lakes, groundwaters, and the sea. The innovative spectro::lyser™ offers new perspectives for water quality monitoring. One outstanding feature for environmental monitoring is the ability to store a large amount of data on board, either concentration values or complete UV-Vis-spectra. This allows you to always display the current state like a snapshot and to compare this with the past. The "normality" of a water body, and possible deviations thereof are clearly visualised.
Another vital feature is the low energy consumption (12V/300mA during measurements; 5mA in sleep mode), so battery / solar energy supply is an option.
The instruments are available with full stand-alone capability (integrated data logger, external battery), or as a part of a network of autonomous solar-powered field stations, providing the telemetric control and data transfer from several field sensors or stations to a central data bank / management system, accessible via any web browser: s::can offers full monitoring systems.

Water Use Protection

For most purposes serving human beings, the quality of a source water must be continuously tracked and kept under control. For purposes like drinking water extraction, industrial use - especially food industry, swimming and water sports, agricultural use, etc., the need for controlling the water quality is getting more and more important when water is getting scarce, and must be even re-used several before being released to the sea.
Checking the water a few times a year is not sufficient any more when considering the often very fast dynamics of water quality, and the more and more technical nature of the water cycle.
Tracking the s::can parameters – TOC, DOC, COD, NO3, NO2,Turbidity, O2, pH, Temperature, and in addition the UV-spectra – gives a full picture of the water quality so the water manager can be sure the water is in normal condition and nothing extraordinary is threatening the intended use.

Water Quality Management

For the first time most parameters that a water manager can have influence on, can be tracked as concentration or as load. The actual state of the water is directly displayed on your screen. The self-cleaning capacity of the water can now be observed and the results can be used for efficient water quality management.