
Spectrometric Water Quality Monitors

Spectrometer probes

All s::can spectrometer probes operate using the same measuring principle: Spectrometry. The spectrometer probes are the first and only instruments in the world that can measure optical spectra from 190 to 720 nm directly in liquid media. The substances contained in the medium weaken a light beam emitted by a lamp that moves through the liquid. After contact with the medium its intensity is measured by a detector over a range of wavelengths specific to the application. No detailed knowledge of the chemical and physical basics of measuring is required.

spectro::lyser

The spectro::lyser™ measures the entire absorption spectrum and is used by many drinking water providers all over the world as a pivotal component in their raw water monitoring. The spectro::lyser™ with its capability to measure and analyze the absorption spectrum in its entirety allows detection of a multitude of organic substances.



carbo::lyser

The carbo::lyser is ideal for the measurement of the organic carbon load, represented by parameters like SAC, T(D)OC, COD, or BOD, and at the same time, turbidity / solids concentration. Applicability ranges from pure water to industrial waste waters. Pre-calibrations for different waters and applications significantly facilitate use.



color::lyser

The color::lyser is a dedicated on-line color monitor. It can accurately measure color, providing both True and Apparent color in Hazen units. It uses s::can's advanced turbidity compensation to calculate solids compensated True color, and will in addition also provide turbidity and temperature.



multi::lyser

The multi::lyser is a combination of s::can carbo::lyser and nitro::lyser. That means that the s::can multi::lyser is characterised by measuring organic carbon & nitrate for a multitude of pre-defined applications. The multi::lyser is ideal for surface water, ground water, drinking water, waste water and offers an optimum of costeffectiveness and



performance.

nitro::lyser

Applications range from (ultra) pure water in the µg/l range up to industrial waste waters in the g/l range. The nitrate concentration displayed is not sensitive to cross-influences



from other substance groups such as organic carbon or total solids. The measured parameters are always nitrate and turbidity / solids concentration.

ozo::lyser

Measurement of ozone in water is what the ozo::lyser is optimized for. This member of the spectrometer family is optimized to determine concentrations of ozone dissolved in water on-line and in situ. It offers an attractive alternative to classical electrochemical ozone sensors, thanks to its very low maintenance requirement and extreme stability.



sulfi::lyser

The sulfi::lyser is ideal for the measurement of TSS & HS & NO₃-N and in combination with the con::cube terminal and an additional pH::lyser it can also be used to measure H₂S.



uv::lyser

The uv::lyser monitors turbidity or TSS and up to 4 freely chosen wavelengths between 190 and 720 nm. Furthermore, depending on the application, it also measures turbidity or solids. The uv::lyser provides cost effective but accurate and precise instrument for applications in surface water, ground water, drinking water and wastewater.



i::scan - the new miniature multi-parameter spectrophotometer probe will revolutionize online water quality monitoring: From very cost sensitive applications down to highly resolved "Smart Water Grids", in small unmanned plants, or even in single building protection. The new i::scan combines the high performance of a multi wavelength spectrophotometer with even lower costs than simple photometers!

