

InSitu Spectralanalyser (ISA)

compact, universal applicable spectrometer measuring head

Article-No.: 486 6000

Properties and performance



- optical sensor with fibre optic cable (2 meter) connected to transmitter
- record of absorption spectrum data range 190 – 720 nm
- adaptation of the instrument to extreme medium properties with adjustable path length 0,5 to 20 mm
- storage of raw spectral data and calibrated spectral data
- calibration exchange by telemetry system
- software for service and calibration
- up to 99 different parameter
- cleaning by air pressure
- easy installation
- highest cost efficiency

Applications (exemplary)

- process control
- waste water- monitoring
- water quality management

Parameter (exemplary)

Nitrate

NO₃/NO₃-N measurement
range 0,1 - 100 mg/l Nox_eq in water
accuracy: ± 5% related to end of measurement range*

DOC (water, drinking water)

range: 0,01 – 50 (mg/l) up to 500 possible
accuracy: ± 5% related to end of measurement range*

CSB

range: 10 – 100 (mg/l)
accuracy: ± 5% related to end of measurement range*

other Parameter

Calibration of the sensor for other Parameter (e.g. BOD, TOC) is possible.

* Calibration by laboratory analysis. Resolution and accuracy depends on quality of analyses and stability of the water matrix.

Technical data

System	UV VIS spectral range 190 – 720 nm
principle	spectral analyser
sample rate	> 20 sec
light source	Xenon flashlight
material	stainless steel, PEEK (option)
temperature range	-10°C...+120°C
weight	0,800 kg
size	length: approx. 230 mm, diameter: 44 mm