

# ProPS

## UV Hyperspectral Process Photometer

### Features:

**ProPS** combines precision UV transmission measurements with a mathematical spectral analysing software in order to provide single substance concentrations from natural or artificial mixed samples. The teaching mode of the software enables the user to look for different UV absorbing substances, like nitrate, nitrite, humic acids, oils or other chemicals. The use of special adapter tubes allows a user adjustment of the optical pathlength.

### Applications:

- chemical-free nitrate measurement
- $\text{HS}^-$  measurement
- monitoring of UV-absorber
- process control
- waste water monitoring
- water quality
- profiling applications
- biology
- marine chemistry



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# ProPS

## Features:

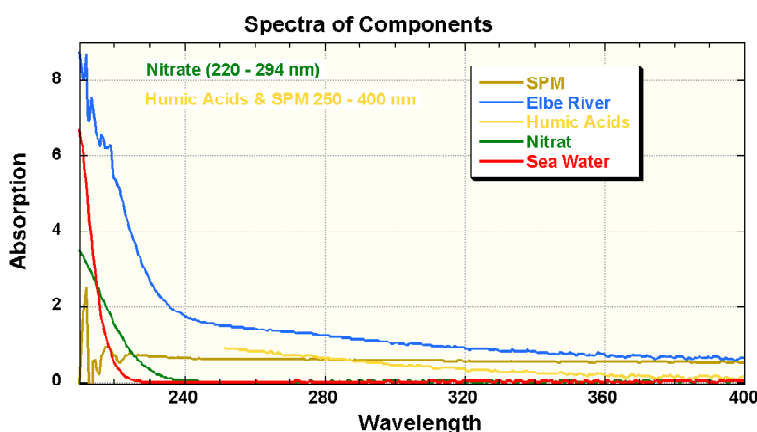
- hyperspectral transmission measurement
- trainable software package
- small size
- easy-to-use
- substance analysis software

## Accessories:

- Display and control unit (DU-4)
- cables
- wipers
- data logging units
- power supplies

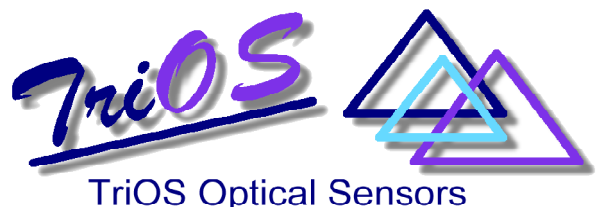
Technical specifications	
<b>detector</b>	
wavelength range	200-385 nm
detector type	256 channel Silicon photodiode array
spectral sampling	0.8 nm / pixel
spectral accuracy	0.2 nm
<b>light source</b>	
type	deuterium lamp 5 Watt
stability	better 0.1% after 10 min
life-time	1,000 h (50% intensity at 230 nm)
<b>electrical</b>	
data interface	RS-232 SUBCONN Micro, 5 pin male
data rate (RS-232)	1.200 - 19.200 baud (user selectable)
power requirements	9..36 VDC
sampling frequency	max. 1Hz
<b>physical</b>	
path length	max. 6cm
weight in air	approx. 5 kg (stainless steel)
size	Ø 6.8 cm x 52.0 cm
operation temperature	0 - 40 °C

Specifications may change due to technical improvements without notification.



The spectra of principal components of a natural sample used for online calculation of substance concentrations.

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