OPUS

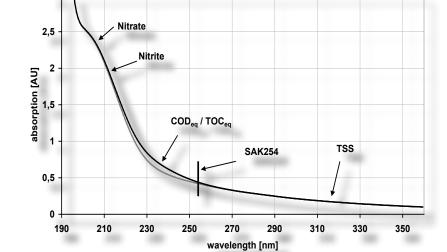
UV/VIS spectral analyser

OPUS is the newest generation of spectral photometer for online analysis of organic loads and nitrogen components. Using full spectrum analysis, OPUS is able to give reliable readings for various parameters like N03-N, N02-N, CODeq, BODeq, TOCeq, TSSeq and even HS⁻. Using TriOS unique police function to monitor unexpected spectral signatures, the OPUS can trigger alarms and protect your application. OPUS comes with the new innovative TriOS G2-interface with easy to use web interface: within minutes you can configure your OPUS to fit to your need. Select from a variety of interfaces and protocols the one which fits to your needs. Select outputs, enter calibration factors, get housekeeping information from your OPUS, or start measurement. Integration into existing systems has never been that easy. The built-in data logger and analysis module allows even stand-alone applications in the field. With wireless network accessories you can control your OPUS by simply using your smartphone or any other device without the need of special apps.

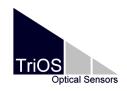


Applications:

- WWTP
- environmental monitoring
- drinking water monitoring
- industrial applications



Absorption spectra of waste water with and without CODeq

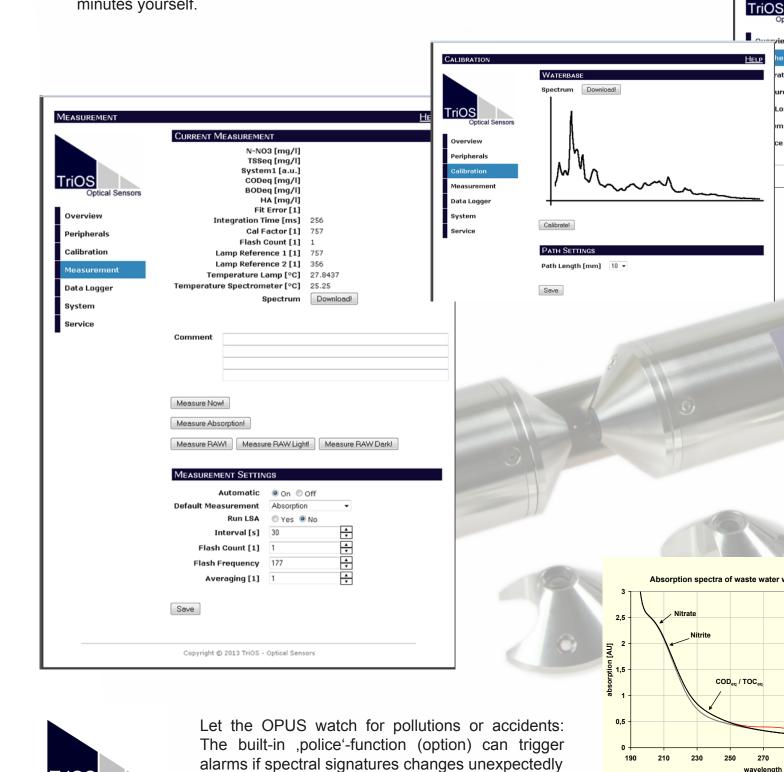


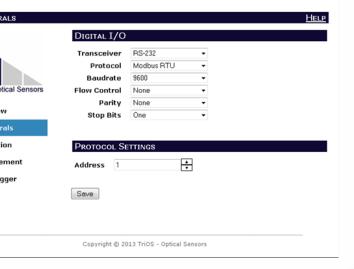
TriOS

TriOS G2-Interface

the easiest and fastest way of sensor integration into any data acquisition or SCADA system.

Use any web-browser to configure your OPUS within minutes yourself.





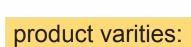
parameter:

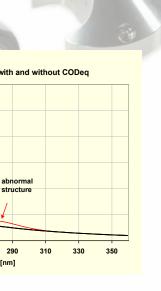
OPUS

NO3-N	0100 mg/L (*)
NO2-N	0200 mg/L (*)
CODeq	05,000 mg/L (*)
TOCeq	0500 mg/L (*)
BODeq	05,000 mg/L (*)
DOCeq	01,000 mg/L (*)
NH ₂ CL	0250 mg/L (*)
HS-	0100 mg/L (*)
others	ask for possibilities
	-

(*) typ. ranges and detection limits. Both are depending on water matrix and components other pre-calibrations on requests







pathlength	wavelength	material	interface	connector
1 mm*	UV	VA	D	С
2 mm*	200350nm	stainless	RS232	fixed 10m
5 mm*	UV/VIS	steel	RS485	cable with
10 mm*	200720nm			M12
* user		Ti	Α	S
changeable		titanium	2x	SUBCONN
by			420mA	8pin micro
spareparts			05VDC	
			010VDC	

OPUS

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	OPUS
detector type	high-end miniature spectrometer, 256 channels
	UV: 200-360nm @ 0.8nm/pixel
	UV/VIS: 200-720nm @ 2.2nm/pixel
light source	Xenon-flashlamp
telemetry interface	network TCP/IP
-	RS-232/RS485, various protocols (e.g. Modbus, TriOS,)
power supply	9 - 28 VDC
housing	stainless steel (1.4571) or titanium
optical pathlengths	1mm, 2mm, 5mm or 10mm
dimensions	d= 48mm, length= 460mm (without connector)
depth range	300m
connector	SubConn micro series 8 pin male or fixed cable with M12 industrial
	connector
operation temperature	0 - 40°C
	internal temperature sensor
memory	2 GB internal micro-SD card
cleaning	nano coated lenses, airblast



A wide range of accessories is availabe (flowcells, panels, power supplies, handheld devices...)





