

spectro::lyser® V3 titanium for Drinking Water

spectro::lyser® V3 titanium monitors depending on the application an individual selection of: TSS, TS, turbidity, color, TOC, DOC, BOD, COD, NO₃-N, NO₃, HS-, O₃, CLD, UV254, fingerprints, spectral alarms and temperature

- measuring principle: UV-Vis spectrometry over the total range (200-720 nm)
- ideal for desalination and sea water
- web server on board - IoT enabled, no user software is needed to configure the probe
- communicates directly with your mobile device via WLAN
- 8 GB onboard memory - capacity for logging data for many years
- improved optical performance - revolutionary precision
- fast measurement interval - every 30 seconds possible
- extremely power efficient - sleep mode for low energy consumption
- multiparameter probe with 1 mm, 5 mm or 35 mm optical path length
- long term stable and maintenance free in operation
- factory precalibrated, local multi-point calibration possible
- automatic cleaning with compressed air or brush



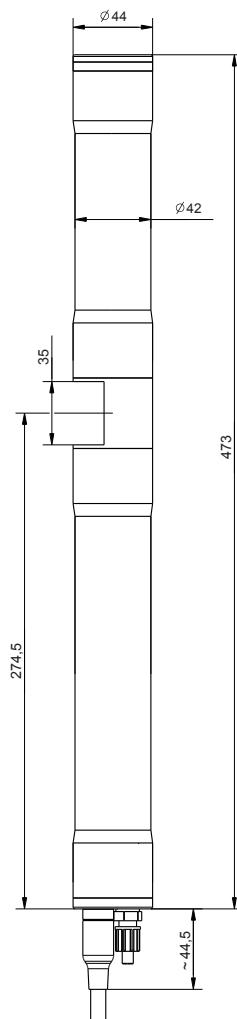
up to 5 bar
operating pressure



up to 50 °C
operating temperature



highly resistant
titanium grade 2



recommended accessories

part number	article name
D-330-XXX	con::cube V3
B-33-012	con::nect V3
B-32-XXX	S:can compressor
B-44	cleaning valve
B-44-2	
F-140-V3	carrier S:can spectrometer V3 probe, 45°
F-150-V3	carrier S:can spectrometer V3 probe, vertical attachment
S-11-XX-MONI	moni::tool Software
V3-VALI	vali::tool - data validation software for spectrometer V3 probe

technical specification

measuring principle	UV-Vis spectrometry 200 - 720 nm UV spectrometry 200 - 390 nm	
measuring principle detail	xenon flash lamp, pixel array detector	
measurement interval	30 sec (configurable, depending on application)	
automatic compensation instrument	real dual beam measurement for compensation and detailed diagnostics	
automatic compensation cross sensitivities	turbidity / solids / organic substances	
precalibrated ex-works	all parameters	
accuracy standard solution (>1 mg/l)	$\text{NO}_3\text{-N: +/- 2% +1/OPL[mg/l]*}$ $\text{COD-KHP: +/- 2% +10/OPL[mg/l]*}$ (* OPL ... optical pathlength in mm)	
access to raw signals	access to spectral information	
reference standard	distilled water	
onboard memory	8 GB	
integrated temperature sensor	0 ... 50 °C	
resolution temperature sensor	0.1 °C	
integration via	con::cube V3 con::nect V3 con::lyte V5 (D-320-pro2) and adapter cable (C-32-V3)	
power supply	10 ... 18 VDC	
power consumption (typical)	3 W	
power consumption (sleep model)	60 mW	
power consumption (max.)	20 W	
interface to s::can terminals	M12 plug, RS485, Ethernet	
interface to third party terminals	con::nect V3 incl. Modbus RTU, REST API, Modbus TCP/IP	
digital interface (for cleaning devices)	1 digital in/out 1 digital out	
interface software	Io:Tool bowser software; multipoint calibration, free formular (incl. logical operators, historic values), display of fingerprint and compensated fingerprint, unlimited parameter display	
		data transfer
		IoT capabilities
		internal sensors (can be displayed as parameters)
		network connection
		status information
		cable length
		cable type
		housing material
		window material
		weight (min.)
		dimensions (Ø x l)
		operating temperature
		operating pressure
		installation / mounting
		flow velocity
		mechanical stability
		ingress protection class
		automatic cleaning
		storage temperature
		conformity - environmental testing
		conformity - EMC
		conformity - RoHS 2
		standard guarantee
		extended guarantee (optional)

sea water

		parameter					
		turbidity [NTU/FTU]	DOC [mg/l]	NO ₃ -N [mg/l]	UV254 [Abs/m]	UV254 f [Abs/m]	part number
spectro::lyser V3 (35 mm OPL, UV-Vis)	min.	0	0	0	0	0	SP3-1-35-TI-xxx
	max.	170	20	20	70	60	
spectro::lyser V3 (5 mm OPL, UV-Vis)	min.	0	0	0	0	0	SP3-1-05-TI-xxx
	max.	1200	140	140	500	420	