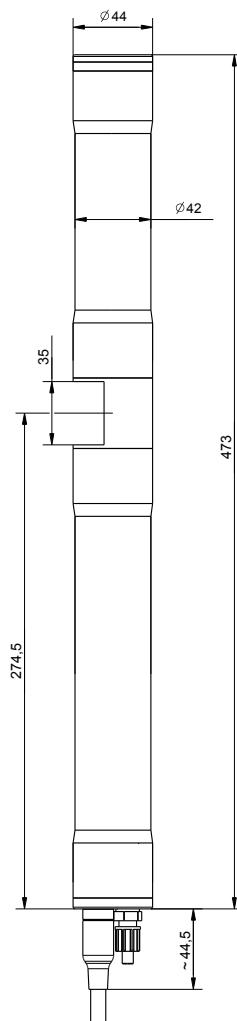


spectro::lyser V3

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

- measuring principle: UV-Vis spectrometry over the total range (190-750 nm)
- 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, ideal for waste water, surface water and drinking water
- long term stable and maintenance free in operation
- factory precalibrated, local multi-point calibration possible
- automatic cleaning with compressed air or brush

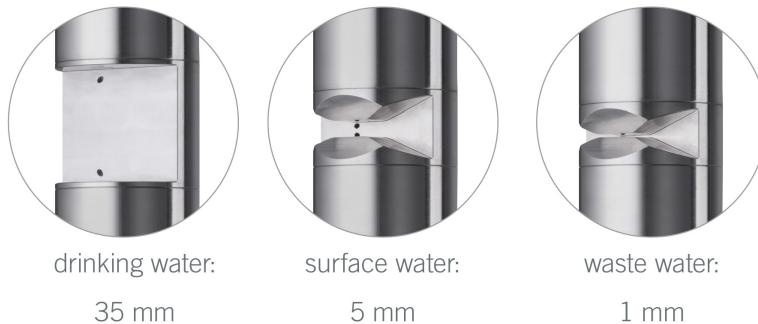
recommended accessories	
part number	article name
D-330-xxx	con::cube V3
B-33-012	con::nect V3
B-32-xxx	s::can compressor
B-44	cleaning valve
B-44-2	
C-32-V3	Adapter cable to connect a V3 spectrometer (M12) to V2 Terminal (MIL Plug)
F-110-V3	carrier s::can spectrometer V3 & V2 probe, 45°
F-120-V3	carrier s::can spectrometer V3 & V2 probe, vertical attachment
F-446-V3	flow cell AutoBrush, POM-C (for spectrometer V3 & V2 pathlength 35 mm)
S-11-xx-moni	moni::tool Software
F-146-rs-x	ruck::sack (submersible Autobrush)



technical specification		
measuring principle	UV-Vis spectrometry 200 - 750 nm	100Base-T Ethernet, WLAN
measuring principle detail	xenon flash lamp, pixel array detector	RGB LED ring
measurement interval	30 sec (configurable, depending on application)	1 m fixed cable (-010) or 7.5 m fixed cable (-075) or 15 m fixed cable (-150)
automatic compensation instrument	real dual beam measurement for compensation and detailed diagnostics	PU jacket
automatic compensation cross sensitivities	turbidity / solids / organic substances	stainless steel 1.4404 (optional titanium)
precalibrated ex-works	all parameters	optical path length 5 and 1 mm: sapphire
accuracy standard solution (>1 mg/l)	NO ₃ -N: +/- 2% +1/OPL[mg/l]* COD-KHP: +/-2% +10/OPL[mg/l]* (* OPL ... optical pathlength in mm)	optical path length 35 mm: fused silica (UV-grade)
access to raw signals	access to spectral information	3.4 kg (incl. cable)
reference standard	distilled water	optical path length 35 mm: 44 x 473 mm / 517.5 mm
onboard memory	8 GB	optical path length 5 mm: 44 x 457 mm / 501.5 mm
integrated temperature sensor	0 ... 45 °C	optical path length 1 mm: 44 x 453 mm / 497.5 mm
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)	0 ... 50 °C
power supply	10 ... 18 VDC	0 ... 3 bar
power consumption (typical)	3 W	submersed or in a flow cell
power consumption (sleep mode)	60 mW	3 m/s (max.)
power consumption (max.)	20 W	mechanical stability
interface to s:can terminals	M12 RSTS 8Y (IP67), RS485, Ethernet	IP68
interface to third party terminals	con::nect V3 incl. Modbus RTU, REST API, Modbus TCP/IP	automatic cleaning
digital interface (for cleaning devices)	1 digital in/out 1 digital out	media: compressed air or autobrush permissible pressure: 3 ... 6 bar
internal sensors	supply voltage sensor, tilt sensor, rotation sensor	-10 ... 65 °C
		EN 60721-3
		EN 61326-1
		EN 50581
		1 years
		extended guarantee (optional)
		3 years

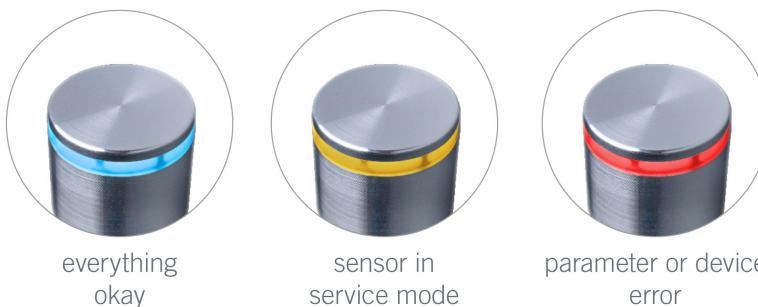
The perfect accuracy for every application

The spectro::lyser V3 is available with three different optical path lengths.



Optical information ring

The color of the optical information ring signals the state of the sensor.



Wireless communication - Io::Tool

Intuitive web interface for data visualization and configuration of the spectro::lyser V3.



ground water

		parameter												
		turbidity [NTU/FTU]	color (app) [Hazen]	color (tru) [Hazen]	TOC [mg/l]	DOC [mg/l]	NO ₃ [mg/l]	UV254 [Abs/m]	UV254 f [Abs/m]	BTX [mg/l]	H ₂ S [mg/l]	part number		
spectro::lyser™ V3 (35 mm OPL, UV-Vis)	min.	0	0	0	0	0	0	0	0	0	0	SP3-1-35-NO-xxx		
	max.	170	500	300	20	15	88	71	60	51	5			

surface water

		parameter															
		TSS [mg/l]	turbidity [NTU/FTU]	color (app) [Hazen]	color (tru) [Hazen]	TOC [mg/l]	DOC [mg/l]	BOD [mg/l]	COD [mg/l]	COD f [mg/l]	NO ₃ [mg/l]	HS- [mg/l]	Chl-a [µg/l]	UV254 [Abs/m]	UV254 f [Abs/m]	BTX [mg/l]	part number
spectro::lyser™ V3 (35 mm OPL, UV-Vis)	min.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	SP3-1-35-NO-xxx	
	max.	170	200	500	300	30	25	42	71	42	66	5	100	71	60	51	
spectro::lyser™ V3 (5 mm OPL, UV-Vis)	min.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	SP3-1-05-NO-xxx	
	max.	1200	1400	3500	2100	210	180	300	500	300	460	35	700	500	420	360	

drinking water

		parameter													
		turbidity [NTU/FTU]	color (app) [Hazen]	color (tru) [Hazen]	TOC [mg/l]	DOC [mg/l]	NO ₃ [mg/l]	chloramine [mg/l]	O ₃ [mg/l]	CLD [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	0	0	0	0	0	0	0	SP3-1-35-NO-xxx	
	max.	170	500	300	22	17	88	42	25	22	71	60			