

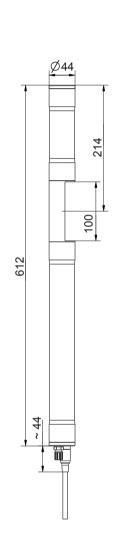
spectro::lyser™

spectro::lyser™ UV monitors depending on the application an individual selection of: TSS (est), turbidity (est) NO₃-N, COD, BOD, TOC, UV254, NO₂-N, BTX, fingerprints and spectral alarms, temperature and pressure

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

- · s::can plug & measure
- measuring principle: UV-Vis spectrometry over the total range (190-750 nm or 190-390 nm)
- · multiparameter probe with adjustable open path length
- · ideal for surface water, ground water, drinking water and waste water
- · long term stable and maintenance free in operation
- · factory precalibrated, local multi-point calibration possible
- · automatic cleaning with compressed air or brush/ruck::sack
- mounting and measurement directly in the media (InSitu) or in a flow cell (monitoring station)
- · operation via s::can terminals & s::can software
- robust and precise adaption of optical path lengths to 35 mm, 15 mm or 5 mm possible
- · easy mounting without clogging

part number	article name
A-005-s	Inserts for optical pathlength 5 mm, stainless steel
A-015-s	Inserts for optical pathlength 15 mm, stainless steel
B-32-xxx	s::can compressor
B-44	cleaning valve
B-44-2	
D-315-xxx	con::cube
F-120-spectro	carrier s::can™ spectrometer probe
F-446-2	flow cell autobrush - for spectro::lyser™ pathlength 100 mm
S-11-xx-moni	moni::tool Software







technical specification	UV-Vis spectrometry 190 - 750 nm	housing material	stainless steel 1.4404				
measuring principle	UV spectrometry 190 - 750 nm	window material	optical path length 15 0.5 mm:				
measuring principle detail	xenon flash lamp, 256 photo diodes	willdow illaterial	sapphire				
automatic compensation instrument	two beam measurement, complete spectrum		optional: optical path length 100 5 mm:				
automatic compensation cross sensitivities	turbidity / solids / organic substances	weight (min.)	fused silica (UV-grade) 3.4 kg (incl. cable)				
precalibrated ex-works	all parameters	dimensions (Ø x I)	optical path length 100 mm:				
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)		44 x 612 mm / 656 mm optical path length 35 0.5 mm: 44 x 547 mm / 591 mm				
access to raw signals	access to spectral information	operating temperature	0 45 °C				
reference standard	distilled water	storage temperature	-10 50 °C				
onboard memory	656 KB	operating pressure	0 5 bar				
integrated temperature sensor	-10 50 °C	high pressure specification	10 bar				
resolution temperature sensor	0.1 °C	(optional)	DI COLLIO A ELL TÜN ALC ATEV				
integrated pressure sensor (optional)	0 1,2/2/11 bar	explosion proof specification	RL 2014/34/EU, TÜV-A16 ATEX				
resolution pressure sensor	1:1000 of measuring range	(optional)	3001Q ATEX Marking:				
integration via	con::cube		II 2 G Ex db IIC T6 Gb				
	con::lyte	installation / mounting	submersed or in a flow cell				
	con::nect	flow velocity	3 m/s (max.)				
power supply	11 15 VDC	mechanical stability	30 Nm				
power consumption (typical)	4.2 W	ingress protection class	IP68				
power consumption (max.)	20 W	automatic cleaning	media: compressed air or autobrush				
interface to s::can terminals	MIL connector, RS485	3	permissible pressure: 3 6 bar				
interface to third party terminals	con::nect incl. gateway modbusRTU	conformity - EMC	EN 61326-1, EN 61326-2-3				
cable length	7.5 m fixed cable (-075) or	conformity - safety	EN 61010-1				
achie ture	1 m fixed cable (-010)	standard warranty	2 years				
cable type	PU jacket	extended warranty (optional)	3 years				

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ground water													
		parameter	parameter										
		turbidity [NTU/FTU]	turbidity est [NTU/FTU]	NO ₃ -N [mg/l]	NO ₂ -N [mg/l]	TOC [mg/l]	DOC [mg/l]	UV254 [Abs/m]	UV254 f [Abs/m]	color (app) [Hazen]	color (tru) [Hazen]	H ₂ S [mg/l]	part number
spectro::lyser TM UV	min.		0	0	0	0		0					SP-2-035-p0-s-N0-010 / -075
(turbidity est, NO ₃ -N, TOC, UV254, NO ₂ -N)	max.		85	20	5	20		70					(incl. Global Calibration g2)
spectro::lyser TM UV-Vis	min.	0		0		0	0					0	SP-1-035-p0-s-N0-010 / -075
(turbidity, NO ₃ -N, TOC, DOC, H2S)	max.	170		20		20	15					20	(incl. Global Calibration g5)
spectro::lyser™ UV-Vis	min.	0		0		0	0	0		0	0		SP-1-035-p0-s-N0-010 / -075
(turbidity, NO ₃ -N, TOC, DOC, UV254, hazen)	max.	170		20		20	15	70		300	200		(incl. Global Calibration g7)
spectro::lyser TM UV-Vis	min.	0		0		0	0	0	0				SP-1-035-p0-s-N0-010 / -075
(turbidity, NO ₃ -N, TOC, DOC, UV254, UV254f)	max.	170		20		20	15	70	55				(incl. Global Calibration g1)

surface water													
		parameter	arameter										
		turbidity [NTU/FTU]	turbidity est [NTU/FTU]	NO ₃ -N [mg/l]	NO ₂ -N [mg/l]	TOC [mg/l]	DOC [mg/l]	UV254 [Abs/m]	UV254 f [Abs/m]	color (app) [Hazen]	color (tru) [Hazen]	part number	
spectro::lyser™ UV	min.		0	0	0	0		0				SP-2-035-p0-s-N0-010 / -075	
(turbidity est, NO ₃ -N, TOC, UV254, NO ₂)	max.		85	15	5	30		70				(incl. Global Calibration r2)	
spectro::lyser™ UV	min.		0	0	0	0		0				SP-2-015-p0-s-N0-010 / -075 (incl. Global Calibration r2)	
(turbidity est, NO ₃ -N, TOC, UV254, NO ₂)	max.		200	35	15	60		165					
spectro::lyser TM UV	min.		0	0	0	0		0				SP-2-005-p0-s-N0-010 / -075 (incl. Global Calibration r2)	
(turbidity est, NO ₃ -N, TOC, UV254, NO ₂ -N)	max.		600	100	40	180		500					
spectro::lyser™ UV-Vis	min.	0		0		0	0	0	0	0	0	SP-1-035-p0-s-N0-010 / -075 (incl. Global Calibration r7)	
(turbidity, NO ₃ -N, TOC, DOC, UV254, UV254f, hazen-f, hazen-t)	max.	200		15		30	20	70	55	500	300		
spectro::lyser™ UV-Vis	min.	0		0		0	0	0	0	0	0	SP-1-015-p0-s-N0-010 / -075	
(turbidity, NO ₃ -N, TOC, DOC, UV254, UV254f, hazen-f, hazen-t)	max.	465		35		60	45	165	135	1165	700	(incl. Global Calibration r7)	
spectro::lyser TM UV-Vis	min.	0		0		0	0	0	0	0	0	SP-1-005-p0-s-N0-010 / -075	
(turbidity, NO ₃ -N, TOC, DOC, UV254, UV254f, hazen-f, hazen-t)	max.	1400		100		180	140	500	400	3500	2100	(incl. Global Calibration r7)	

drinking water														
		parameter												
		turbidity [NTU/ FTU]	turbidity est [NTU/FTU]	- 3	NO ₂ -N [mg/l]		DOC [mg/l]	UV254 [Abs/m]	UV254 f [Abs/m]	CLD [mg/l]	color (app) [Hazen]	color (tru) [Hazen]	0 ₃ [mg/l]	part number
spectro::lyser™ UV	min.		0	0	0	0		0						SP-2-100-p0-sN0-010 / -075 (incl. Global Calibration d2)
(turbidity est, NO ₂ -n, NO ₃ -N, TOC, DOC, UV254)	max.		30	7	2	8		25						
spectro::lyser TM UV-Vis	min.	0		0		0	0	0	0	0				SP-1-100-p0-s-N0-010 / -075
(turbidity, NO ₃ -N, TOC, DOC, UV254, UV254f, CLD)	max.	60		7		8	6	25	20	8				(incl. Global Calibration d3)
spectro::lyser TM UV-Vis	min.	0		0		0	0	0	0				0	SP-1-100-p0-s-N0-010 / -075
(turbidity, NO ₃ -N, TOC, DOC, UV254, UV254f, O ₃)	max.	60		7		8	6	25	20				9	(incl. Global Calibration d5)
spectro::lyser™ UV-Vis (turbidity, N0 ₃ -N, TOC, DOC, UV254, UV254f, hazen-f, hazen-t)	min.	0		0		0	0	0	0		0	0		SP-1-100-p0-s-N0-010 / -075
	max.	60		7		8	6	25	20		105	70		(incl. Global Calibration d7)

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