

multi::lyser™ II / III

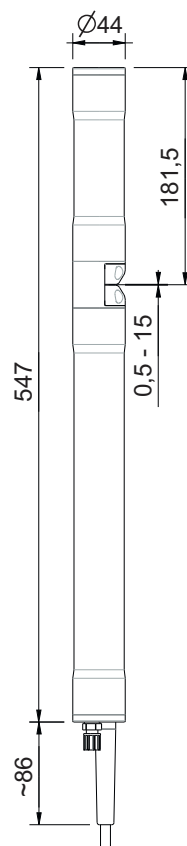
multi::lyser™ II monitors NO₃-N & one organic parameter (COD, BOD, TOC, DOC or UV254)

multi::lyser™ III monitors turbidity / TSS & NO₃-N & one organic parameter (COD, BOD, TOC, DOC or UV254)

- s::can plug & measure
- measuring principle: UV-Vis spectrometry
- multiparameter probe
- ideal for surface water, ground water, drinking water and waste water
- long term stable and maintenance free in operation
- factory precalibrated
- automatic cleaning with compressed air
- 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, 5 mm, 2 mm, 1 mm or 0.5 mm possible
- easy mounting without clogging

recommended accessories

part number	article name
A-500-s	Inserts for optical pathlength 0.5 mm, stainless steel
B-32-xxx	s::can compressor
B-44	cleaning valve
B-61-1	cleaning agent
C-210-spectro	10 m extension cable for s::can™ spectrometer probes
C-220-spectro	20 m extension cable for s::can™ spectrometer probes
C-230-spectro	30 m extension cable for s::can™ spectrometer probes
D-319-xxx	con::lyte
D-315-xxx	con::cube
F-120-spectro	carrier s::can™ spectrometer probe
F-110-spectro	carrier s::can™ spectrometer probe
F-445-1	flow cell - for pathlengths from 0.5 mm to 35 mm
F-48-spectro	s::can spectrometer flow-cell (by-pass setup), PVC



technical specification

measuring principle	UV-Vis spectrometry 220 - 720 nm	cable length	7.5 m fixed cable (-075) or 1 m fixed cable (-010)
measuring principle detail	xenon flash lamp, 256 photo diodes	cable type	TNPU jacket
automatic compensation instrument	two beam measurement, complete spectrum	housing material	stainless steel 1.4404
automatic compensation cross sensitivities	turbidity / solids / organic substances	weight (min.)	3,4 kg (incl. cable)
precalibrated ex-works	all parameters	dimensions (diameter x length)	44 mm x 547 mm / 633 mm
accuracy standard solution (>1 mg/l)	NO ₃ -N: +/- 3% +1/OPL[mg/l]* COD-KHP: +/-3% +10/OPL[mg/l]* (* OPL ... optical pathlength in mm)	operating temperature	0 ... 45 °C
access to raw signals	no	storage temperature	-10 ... 50 °C
reference standard	distilled water	operating pressure	0 ... 3 bar
onboard memory	656 KB	high pressure specification	10 bar
integrated temperature sensor	-10 ... 50 °C	installation / mounting	submersed or in a flow cell
resolution temperature sensor	0.1 °C	flowrate	3 m/s (max.)
integrated pressure sensor (optional)	0 ... 1,2/2/11 bar	mechanical stability	30 Nm
resolution pressure sensor	1:1000 of measuring range	protection class	IP68
integration via	con::lyte 2 con::lyte 4 con::nect con::cube	automatic cleaning	media: compressed air permissible pressure: 4 ... 6 bar air volume: 7 ... 20 liters per cleaning cleaning duration (typical): 3 ... 15 seconds per cleaning cleaning interval: every 1st to 10th measuring interval, depending on application delay: 10 ... 30 seconds
power supply	11 ... 15 VDC	conformity - EMC	EN 61326:97/A1:98/A2:01
power consumption (typical)	4.2 W	conformity - safety	EN 61010-1:2002
power consumption (max.)	20 W	extended spare part warranty (optional)	3 years
interface connection to s::can terminals	MIL connector, IP68, RS485, 12 VDC		
interface to third party terminals	con::nect incl. gateway modbusRTU		

municipal WWTP influent

		typical concentration ranges for this application							part number
		TSS [mg/l]	NO ₃ -N [mg/l]	COD [mg/l]	CODf [mg/l]	BOD [mg/l]	UV254 [Abs/m]	UV254f [Abs/m]	
multi::lyser™ II (NO ₃ , UV254)	min.		0				0		M2-i002-p0-sNO-010 / -075
	max.		10				1250		
multi::lyser™ II (NO ₃ -N, BOD)	min.		0			0			M2-i002-p0-sNO-010 / -075
	max.		10			2000			
multi::lyser™ II (NO ₃ -N, COD)	min.		0	0					M2-i002-p0-sNO-010 / -075
	max.		10	3750					
multi::lyser™ II (NO ₃ -N, CODf)	min.		0		0				M2-i002-p0-sNO-010 / -075
	max.		10		1250				
multi::lyser™ II (NO ₃ -N, UV254f)	min.		0					0	M2-i002-p0-sNO-010 / -075
	max.		10					750	
multi::lyser™ III (TSS, NO ₃ -N, BOD)	min.	0	0			0			M3-i002-p0-sNO-010 / -075
	max.	2500	10			1250			
multi::lyser™ III (TSS, NO ₃ -N, COD)	min.	0	0	0					M3-i002-p0-sNO-010 / -075
	max.	2500	10	3750					
multi::lyser™ III (TSS, NO ₃ -N, CODf)	min.	0	0		0				M3-i002-p0-sNO-010 / -075
	max.	2500	10		1250				
multi::lyser™ III (TSS, NO ₃ -N, UV254)	min.	0	0				0		M3-i002-p0-sNO-010 / -075
	max.	2500	10				1250		
multi::lyser™ III (TSS, NO ₃ -N, UV254f)	min.	0	0					0	M3-i002-p0-sNO-010 / -075
	max.	2500	10					750	

municipal WWTP effluent

		typical concentration ranges for this application							part number
		TSS [mg/l]	NO ₃ -N [mg/l]	COD [mg/l]	CODf [mg/l]	UV254 [Abs/m]	UV254f [Abs/m]		
multi::lyser™ II (NO ₃ -N, COD)	min.		0	0					M2-e005-p0-sNO-010 / -075
	max.		25	500					
multi::lyser™ II (NO ₃ -N, CODf)	min.		0		0				M2-e005-p0-sNO-010 / -075
	max.		25		300				
multi::lyser™ II (NO ₃ -N, UV254)	min.		0			0			M2-e005-p0-sNO-010 / -075
	max.		25			500			
multi::lyser™ II (NO ₃ -N, UV254f)	min.		0				0		M2-e005-p0-sNO-010 / -075
	max.		25				300		
multi::lyser™ III (TSS, NO ₃ -N, COD)	min.	0	0	0					M3-e005-p0-sNO-010 / -075
	max.	500	25	500					
multi::lyser™ III (TSS, NO ₃ -N, CODf)	min.	0	0		0				M3-e005-p0-sNO-010 / -075
	max.	500	25		300				
multi::lyser™ III (TSS, NO ₃ -N, UV254)	min.	0	0			0			M3-e005-p0-sNO-010 / -075
	max.	500	25			500			
multi::lyser™ III (TSS, NO ₃ -N, UV254f)	min.	0	0				0		M3-e005-p0-sNO-010 / -075
	max.	500	25				300		