

multi::lyser

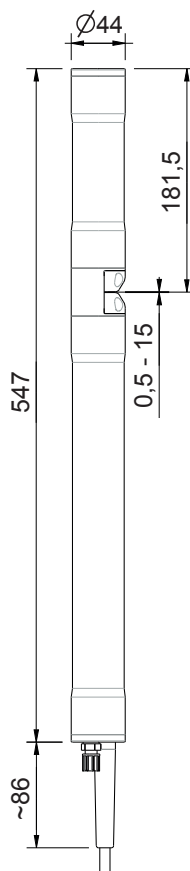
multi::lyser™ II monitors NO₃-N & one organic parameter (COD, BOD, TOC, DOC or UV254)

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 over the total range (190-720 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
- 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

recommended accessories

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	
B-61-1	cleaning agent
C-1-010-spectro	1 m connection cable for s::can spectrometer probes
D-315-xxx	con::cube
F-110-spectro	carrier s::can™ spectrometer probe
F-120-spectro	carrier s::can™ spectrometer probe
F-445-1	flow cell - for pathlengths from 0.5 mm to 35 mm
F-446-1	flow cell autobrush - for spectro::lyser™ pathlength 35 mm
S-11-xx-moni	moni::tool Software



technical specification

measuring principle	UV-Vis spectrometry 190 - 720 nm	cable type	PU jacket
measuring principle detail	xenon flash lamp, 256 photo diodes	housing material	stainless steel 1.4404
automatic compensation instrument	two beam measurement, complete spectrum	window material	optical path length 15 ... 0.5 mm: sapphire optional: optical path length 100 ... 5 mm: fused silica (UV-grade)
automatic compensation cross sensitivities	turbidity / solids / organic substances	weight (min.)	3.4 kg (incl. cable)
precalibrated ex-works	all parameters	dimensions (Ø x l)	44 mm x 547 mm / 591 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	flow velocity	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	ingress protection class	IP68
integration via	con::cube con::lyte con::nect	automatic cleaning	media: compressed air permissible pressure: 3 ... 6 bar air volume: 7 ... 20 l per cleaning duration: 1 ... 5 sec. per cleaning cleaning interval: every 1st to 10th measuring interval delay: 10 ... 30 sec.
power supply	11 ... 15 VDC	conformity - EMC	EN 61326-1, EN 61326-2-3
power consumption (typical)	4.2 W	conformity - safety	EN 61010-1
power consumption (max.)	20 W	extended warranty (optional)	3 years
interface to s::can terminals	MIL connector (IP67), RS485		
interface to third party terminals	con::nect incl. gateway modbusRTU		
cable length	7.5 m fixed cable (-075) or 1 m fixed cable (-010)		

surface water

		concentration ranges and sensor/probe type for this application						
		turbidity [NTU/FTU]	NO ₃ -N [mg/l]	TOC [mg/l]	DOC [mg/l]	UV254 [Abs/m]	UV254 f [Abs/m]	part number
multi::lyser™ II (NO ₃ -N, DOC)	min.	0	0		0			M2-r005-p0-sNO-010 / -075
	max.	1400	100		140			
multi::lyser™ II (NO ₃ -N, TOC)	min.	0	0	0				M2-r005-p0-sNO-010 / -075
	max.	1400	100	180				
multi::lyser™ II (NO ₃ -N, UV254)	min.	0	0			0		M2-r005-p0-sNO-010 / -075
	max.	1400	100			500		
multi::lyser™ II (NO ₃ -N, UV254f)	min.	0	0				0	M2-r005-p0-sNO-010 / -075
	max.	1400	100				400	
multi::lyser™ III (turbidity, NO ₃ -N, TOC)	min.	0	0	0				M3-r005-p0-sNO-010 / -075
	max.	1400	100	180				
multi::lyser™ III (turbidity, NO ₃ -N, UV254)	min.	0	0			0		M3-r005-p0-sNO-010 / -075
	max.	1400	100			500		
multi::lyser™ III (turbidity, NO ₃ -N, UV254f)	min.	0	0				0	M3-r005-p0-sNO-010 / -075
	max.	1400	100				400	

drinking water

		concentration ranges and sensor/probe type for this application						
		turbidity [NTU/FTU]	NO ₃ -N [mg/l]	TOC [mg/l]	DOC [mg/l]	UV254 [Abs/m]	UV254 f [Abs/m]	part number
multi::lyser™ II (NO ₃ -N, DOC)	min.	0	0		0			M2-d035-p0-sNO-010 / -075
	max.	170	20		15			
multi::lyser™ II (NO ₃ -N, TOC)	min.	0	0	0				M2-d035-p0-sNO-010 / -075
	max.	170	20	20				
multi::lyser™ II (NO ₃ -N, UV254)	min.	0	0			0		M2-d035-p0-sNO-010 / -075
	max.	170	20			70		
multi::lyser™ II (NO ₃ -N, UV254f)	min.	0	0				0	M2-d035-p0-sNO-010 / -075
	max.	170	20				55	
multi::lyser™ III (turbidity, NO ₃ -N, DOC)	min.	0	0		0			M3-d035-p0-sNO-010 / -075
	max.	170	20		15			
multi::lyser™ III (turbidity, NO ₃ -N, TOC)	min.	0	0	0				M3-d035-p0-sNO-010 / -075
	max.	170	20	20				
multi::lyser™ III (turbidity, NO ₃ -N, UV254)	min.	0	0			0		M3-d035-p0-sNO-010 / -075
	max.	170	20			70		
multi::lyser™ III (turbidity, NO ₃ -N, UV254f)	min.	0	0				0	M3-d035-p0-sNO-010 / -075
	max.	170	20				55	