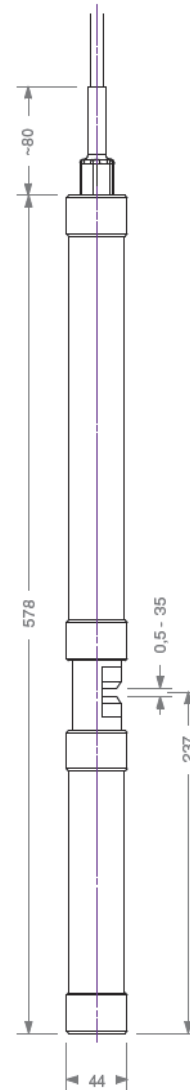


# multi::lyser

- .. s::can plug & measure
- .. measuring principle: UV-Vis spectrometry
- .. multiparameter probe
- .. ideal for surface water, ground water, drinking water and waste water
- .. multi::lyser<sup>TM</sup>II monitors NO<sub>3</sub>-N & one organic parameter (COD, BOD, TOC, DOC or UV254)
- .. multi::lyser<sup>TM</sup>III monitors TSS NO<sub>3</sub>-N & one organic parameter (COD, BOD, TOC, DOC or UV254)
- .. 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 Bypass (monitoring station)
- .. operation via s::can terminals & s::can software

## recommended accessories

part number	article name
F-11-spectro	carrier s::can <sup>TM</sup> spectrometer probe
F-443-1	complete Bypass setup - for pathlengths from 1 mm to 35 mm
F-444-2	Bypass fitting brushable - for spectro::lyser <sup>TM</sup> pathlength 100 mm
F-50-1	system-panel BASIC
F-61	pontoon
B-60-1	cleaning brush for pathlength < 5 mm
B-61-1	cleaning agent
C-210-spectro	10 m extension cable for s::can <sup>TM</sup> spectrometer probes
E-411	cell holder insert
E-431-a	insert for shortening pathlength - anodised aluminium alloy
B-44	cleaning valve



**technical specification**

measuring principle	UV-Vis spectrometry 220 - 720 nm	cable length	7.5 m
measuring principle detail	xenon flash light, 256 photo diodes	cable type	PU jacket
automatic compensation instrument	two beam measurement, complete spectrum	housing material	aluminium alloy ISO 3.2315, or stainless steel 1.4571
automatic compensation cross sensitivities	turbidity / solids / organic substances	weight (min.)	2.1 kg
precalibrated ex-works	all parameters	dimensions (diameter x length)	44mm x 578mm / 647mm
accuracy standard solution (>1 mg/l)	NO <sub>3</sub> -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 Bypass (flow cell)
resolution temperature sensor	0.1 °C	flowrate	3 m/s (max.)
integrated pressure sensor (optional)	0 ... 10 bar	mechanical stability	30 Nm
resolution pressure sensor	2.5 mbar	protection class	IP 68
integration via	con::lyte 2 con::lyte 4 con::nect con::stat	automatic cleaning	media: compressed air permissible pressure: 3 to 8 bar air volume: 7 to 20 liter per cleaning cleaning duration: 3 to 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, IP 68, 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 <sub>3</sub> -N [mg/l]	COD [mg/l]	CODf [mg/l]	BOD [mg/l]	UV254 [Abs/m]	UV254t [Abs/m]	
multi::lyser™ II (NO <sub>3</sub> , BOD)	min.		0			0			G-M2-e005-485-p0t0-sNO
	max.		10			2000			
multi::lyser™ II (NO <sub>3</sub> , COD)	min.		0	0					G-M2-e005-485-p0t0-sNO
	max.		10	3750					
multi::lyser™ II (NO <sub>3</sub> , CODf)	min.		0		0				G-M2-e005-485-p0t0-sNO
	max.		10		1250				
multi::lyser™ II (NO <sub>3</sub> , UV254)	min.		0				0		G-M2-e005-485-p0t0-sNO
	max.		10				750		
multi::lyser™ II (NO <sub>3</sub> , UV254t)	min.		0					0	G-M2-e005-485-p0t0-sNO
	max.		10					1250	
multi::lyser™ III (TSS, NO <sub>3</sub> , BOD)	min.	0	0			0			G-M3-e005-485-p0t0-sNO
	max.	3000	10			2000			
multi::lyser™ III (TSS, NO <sub>3</sub> , COD)	min.	0	0	0					G-M3-e005-485-p0t0-sNO
	max.	3000	10	3750					
multi::lyser™ III (TSS, NO <sub>3</sub> , CODf)	min.	0	0		0				G-M3-e005-485-p0t0-sNO
	max.	3000	10		1250				
multi::lyser™ III (TSS, NO <sub>3</sub> , UV254)	min.	0	0				0		G-M3-e005-485-p0t0-sNO
	max.	3000	10				750		
multi::lyser™ III (TSS, NO <sub>3</sub> , UV254t)	min.	0	0					0	G-M3-e005-485-p0t0-sNO
	max.	3000	10					1250	

**municipal WWTP effluent**

		typical concentration ranges for this application							part number
		TSS [mg/l]	NO <sub>3</sub> -N [mg/l]	COD [mg/l]	CODf [mg/l]	UV254 [Abs/m]	UV254t [Abs/m]		
multi::lyser™ II (NO <sub>3</sub> , COD)	min.		0	0				G-M2-e005-485-p0t0-aNO	
	max.		25	500					
multi::lyser™ II (NO <sub>3</sub> , CODf)	min.		0		0			G-M2-e005-485-p0t0-aNO	
	max.		25		300				
multi::lyser™ II (NO <sub>3</sub> , UV254)	min.		0			0		G-M2-e005-485-p0t0-aNO	
	max.		25			300			
multi::lyser™ II (NO <sub>3</sub> , UV254t)	min.		0				0	G-M2-e005-485-p0t0-aNO	
	max.		25				500		
multi::lyser™ III (TSS, NO <sub>3</sub> , COD)	min.	0	0	0				G-M3-e005-485-p0t0-aNO	
	max.	500	25	500					
multi::lyser™ III (TSS, NO <sub>3</sub> , CODf)	min.	0	0		0			G-M3-e005-485-p0t0-aNO	
	max.	500	25		300				
multi::lyser™ III (TSS, NO <sub>3</sub> , UV254)	min.	0	0			0		G-M3-e005-485-p0t0-aNO	
	max.	500	25			300			
multi::lyser™ III (TSS, NO <sub>3</sub> , UV254t)	min.	0	0				0	G-M3-e005-485-p0t0-aNO	
	max.	500	25				500		