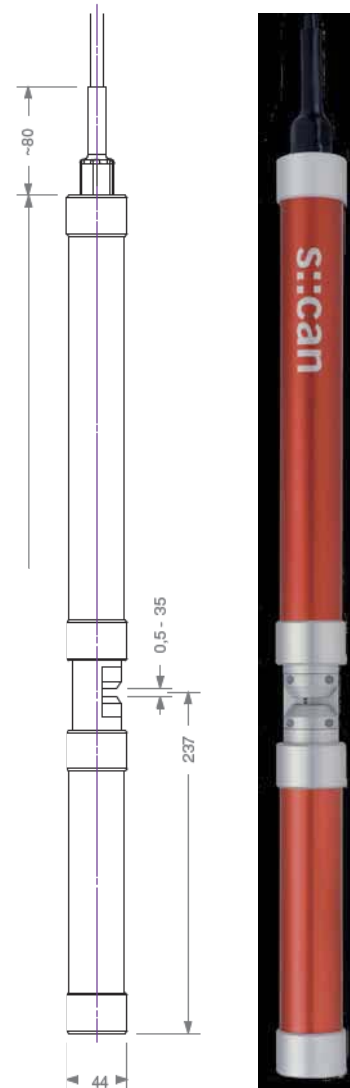


carbo::lyser™ II / III

- s::can plug & measure
- measuring principle: UV-Vis spectrometry
- multiparameter probe
- carbo::lyser™II monitors TSS & UV254 or TSS & COD or TSS & BOD or TSS & TOC or TSS & DOC
- carbo::lyser™III monitors TSS & UV254 & UV254t or TSS & COD & BOD or TSS & TOC & DOC or TSS & COD & CODf
- 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
- automatic compensation of cross sensitivities
- applications in surface water, ground water, Drinking water, and waste water



recommended accessories

part number	article name
F-11-spectro	carrier s::can™ 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™ 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™ 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	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 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 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						
		TSS [mg/l]	COD [mg/l]	CODf [mg/l]	BOD [mg/l]	UV254 [Abs/m]	UV254t [Abs/m]	part number
carbo::lyser™ II (TSS, BOD)	min.	0			0			G-C2-i002-485-p0t0-sNO
	max.	3000			2000			
carbo::lyser™ II (TSS, COD)	min.	0	0					G-C2-i002-485-p0t0-sNO
	max.	3000	3750					
carbo::lyser™ II (TSS, CODf)	min.	0		0				G-C2-i002-485-p0t0-sNO
	max.	3000		1250				
carbo::lyser™ II (TSS, UV254)	min.	0				0		G-C2-i002-485-p0t0-sNO
	max.	3000				750		
carbo::lyser™ II (TSS, UV254t)	min.	0					0	G-C2-i002-485-p0t0-sNO
	max.	3000					1250	
carbo::lyser™ III (TSS, COD, BOD)	min.	0	0		0			G-C3-i002-485-p0t0-sNO
	max.	3000	3750		2000			
carbo::lyser™ III (TSS, COD, CODf)	min.	0	0	0				G-C3-i002-485-p0t0-sNO
	max.	3000	3750	1250				
carbo::lyser™ III (TSS, UV254, UV254t)	min.	0				0	0	G-C3-i002-485-p0t0-sNO
	max.	3000				750	1250	

municipal WWTP effluent

		typical concentration ranges for this application						
		TSS [mg/l]	COD [mg/l]	CODf [mg/l]	UV254 [Abs/m]	UV254t [Abs/m]	part number	
carbo::lyser™ II (TSS, COD)	min.	0	0				G-C2-e005-485-p0t0-aNO	
	max.	500	500					
carbo::lyser™ II (TSS, CODf)	min.	0		0			G-C2-e005-485-p0t0-aNO	
	max.	500		300				
carbo::lyser™ II (TSS, UV254)	min.	0			0		G-C2-e005-485-p0t0-aNO	
	max.	500			300			
carbo::lyser™ II (TSS, UV254t)	min.	0				0	G-C2-e005-485-p0t0-aNO	
	max.	500				500		
carbo::lyser™ III (TSS, COD, CODf)	min.	0	0	0			G-C3-e005-485-p0t0-aNO	
	max.	500	500	300				
carbo::lyser™ III (TSS, UV254, UV254t)	min.	0			0	0	G-C3-e005-485-p0t0-aNO	
	max.	500			300	500		