

uv::lyser II

- s::can plug & measure
- measuring principle: UV-Vis spectrometry
- multiparameter probe
- ideal for surface water, ground water, drinking water and waste water
- uv::lyser II monitors turbidity & UV254 or AFS & 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™ 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 ₂ -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			
		turbidity [FTU]	UV254 [Abs/m]	UV254t [Abs/m]	part number
uv::lyser II (turbidity, UV254)	min.	0	0		G-U2-i002-485-p0t0-aNO
	max.	3000	750		
uv::lyser II (turbidity, UV254t)	min.	0		0	G-U2-i002-485-p0t0-aNO
	max.	3000		1250	

municipal WWTP aeration

		typical concentration ranges for this application			
		turbidity [FTU]	UV254 [Abs/m]	UV254t [Abs/m]	part number
uv::lyser II (turbidity, UV254)	min.	0	0		G-U2-a001-485-p0t0-aNO
	max.	15000	1500		
uv::lyser II (turbidity, UV254t)	min.	0		0	G-U2-a001-485-p0t0-aNO
	max.	15000		2500	

municipal WWTP effluent

		typical concentration ranges for this application			
		turbidity [FTU]	UV254 [Abs/m]	UV254t [Abs/m]	part number
uv::lyser II (turbidity, UV254)	min.	0	0		G-U2-e005-485-p0t0-aNO
	max.	500	300		
uv::lyser II (turbidity, UV254t)	min.	0		0	G-U2-e005-485-p0t0-aNO
	max.	500		500	