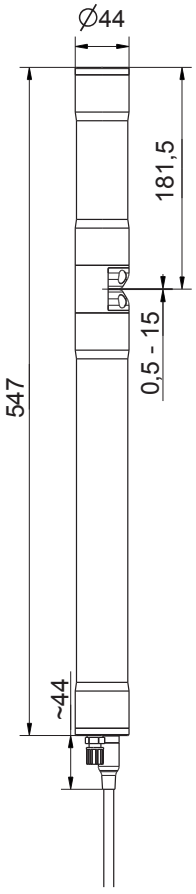
spectro::lyser™ (UV)

spectro::lyser™ UV monitors depending on the application an individual selection of: NO_2-N, TSS (est), turbidity (est) NO_3-N, COD, BOD, TOC, UV254, BTX, fingerprints and spectral alarms, temperature and pressure



- s::can plug & measure
- measuring principle: spectrometry over the UV range (190-390 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 or brush
- mounting and measurement directly in the media (InSitu) or in a flow cell (monitoring station)
- operation via s::can terminals & s::can software
- cleaning integrated
- adaption of optical path lengths to 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
A-001-s	Inserts for optical pathlength 1 mm, stainless steel
A-002-s	Inserts for optical pathlength 2 mm, stainless steel
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
D-330-xxx	con::cube V3
F-120-V3	carrier s::can spectrometer V3 & V2 probe, vertical attachment
F-48-V3	spectrometer V3 & V2 flow-cell (bypass setup), PVC
S-11-xx-moni	moni::tool Software

s::can
Intelligent. Optical. Online.

technical specification

measuring principle	UV spectrometry 190 - 390 nm
measuring principle detail	xenon flash lamp, 256 photo diodes
automatic compensation instrument	two beam measurement, complete spectrum
automatic compensation cross sensitivities	turbidity / solids / organic substances
precalibrated ex-works	all parameters
accuracy standard solution (>1 mg/l)	NO_3-N: +/- 2% +1/OPL[mg/l]* COD-KHP: +/-2% +10/OPL[mg/l]* (* OPL ... optical pathlength in mm)
access to raw signals	access to spectral information
reference standard	distilled water
onboard memory	656 KB
integrated temperature sensor	-10 ... 50 °C
resolution temperature sensor	0.1 °C
integrated pressure sensor (optional)	0 ... 1.2/2/11 bar
resolution pressure sensor	1:1000 of measuring range
integration via	con::cube con::lyte con::nect
power supply	11 ... 15 VDC
power consumption (typical)	4.2 W
power consumption (max.)	20 W
interface to s::can terminals	MIL connector, 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)
cable type	PU jacket
housing material	stainless steel 1.4404
window material	optical path length 15 ... 0.5 mm: sapphire optional: optical path length 100 ... 5 mm: fused silica (UV-grade)
weight (min.)	3.4 kg (incl. cable)
dimensions (Ø x l)	optical path length 100 mm: 44 x 612 mm / 656 mm optical path length 35 ... 0.5 mm: 44 x 547 mm / 591 mm
operating temperature	0 ... 45 °C
operating pressure	0 ... 5 bar
high pressure specification (optional)	10 bar
explosion proof specification (optional)	RL 2014/34/EU, TÜV-A16 ATEX 3001Q ATEX Marking: II 2 G Ex db IIC T6 Gb
installation / mounting	submersed or in a flow cell
flow velocity	3 m/s (max.)
mechanical stability	30 Nm
ingress protection class	IP68
automatic cleaning	media: compressed air or autobrush permissible pressure: 3 ... 6 bar
storage temperature	-10 ... 50 °C
conformity - EMC	EN 61326-1, EN 61326-2-3
conformity - safety	EN 61010-1
standard warranty	2 years
extended warranty (optional)	3 years

municipal WWTP aeration

		parameter					
		TSS est [mg/l]	COD f [mg/l]	NO_2-N [mg/l]	NO_3-N [mg/l]	UV254 [Abs/m]	part number
spectro::lyser™ UV (TSS est, NO_3-N, CODf, UV254, NO_2-N)	min.	0	0	0	0	0	SP-2-001-p0-s-NO-010 / -075 (incl. Global Calibration I2)
	max.	6000	1200	500	100	2500	