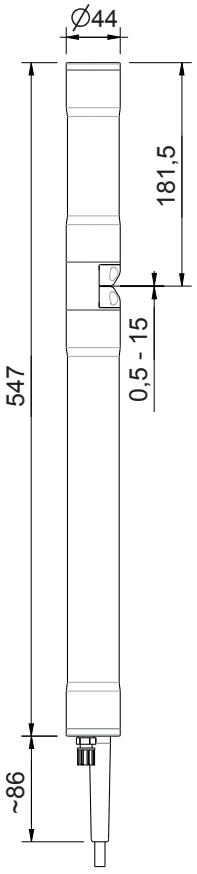
sulfi::lyser

sulfi::lyser II monitors TSS & HS & H_2S*

sulfi::lyser III monitors TSS & HS & H_2S* & NO_3-N

- 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 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
B-44 B-44-2	cleaning valve
B-61-1	cleaning agent
C-210-spectro	10 m extension cable for s::can™ spectrometer probes
C-220-spectro	20 m extension cable for s::can™ spectrometer probes
C-230-spectro	30 m extension cable for s::can™ spectrometer probes
D-315-xxx	con::cube
D-319-xxx	con::lyte
F-120-spectro	carrier s::can™ spectrometer probe
F-110-spectro	carrier s::can™ spectrometer probe
F-48-spectro	s::can spectrometer flow-cell (by-pass setup), PVC
S-11-xx-moni	moni::tool Software

technical specification

measuring principle	UV-Vis spectrometry 190 - 720 nm
measuring principle detail	xenon flash lamp, 256 photo diodes
automatic compensation instrument	two beam measurement, complete spectrum
automatic compensation cross sensitivities	turbidity / solids
precalibrated ex-works	all parameters
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)
access to raw signals	no
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 (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)

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)	44 mm x 547 mm / 591 mm
operating temperature	0 ... 45 °C
storage temperature	-10 ... 50 °C
operating pressure	0 ... 3 bar
high pressure specification	10 bar
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 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.
conformity - EMC	EN 61326-1, EN 61326-2-3
conformity - safety	EN 61010-1
extended warranty (optional)	3 years

municipal WWTP influent & sewer

		concentration ranges and sensor/probe type for this application					
		TSS [mg/l]	NO_3-N [mg/l]	HS [mg/l]	H_2S* [mg/l]	pH* [pH]	part number
sulfi::lyser II (H_2S*)	min.	0		0	0	2	S2-i002-p0-sNO-010 / -075
	max.	3000		20	25	12	
sulfi::lyser III (H_2S*, NO_3-N)	min.	0	0	0	0	2	S3-i002-p0-sNO-010 / -075
	max.	3000	40	20	25	12	