

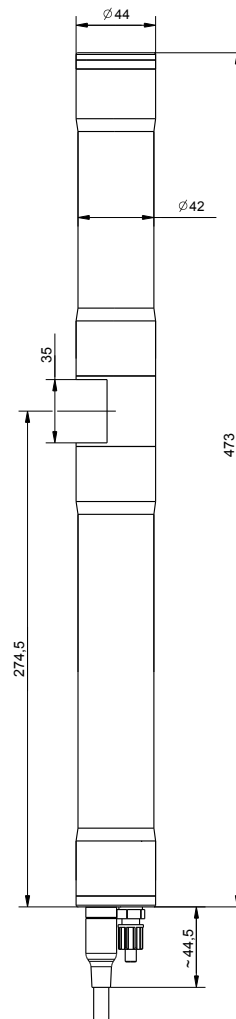
# nitro::lyser™ II - V3

nitro::lyser™ II monitors 2 of the following parameters: Turbidity, NO<sub>3</sub>-N and NO<sub>3</sub>

- measuring principle: UV-Vis spectrometry over the total range (190-750 nm)
- web server on board - IoT enabled, no user software is needed to configure the probe
- communicates directly with your mobile device via Bluetooth or WLAN
- 8 GB onboard memory - capacity for logging data for many years
- improved optical performance - revolutionary precision
- fast measurement interval - every 10 seconds possible
- extremely power efficient - sleep mode for low energy consumption
- multiparameter probe with 1 mm, 5 mm or 35 mm optical path length, ideal for waste water, surface water and drinking water
- long term stable and maintenance free in operation
- factory precalibrated, local multi-point calibration possible
- automatic cleaning with compressed air or brush

## recommended accessories

part number	article name
B-32-xxx	s::can compressor
B-33-012	con::nect V3
B-44	cleaning valve
B-44-2	
D-330-xxx	con::cube V3
F-110-V3	carrier s::can spectrometer V3 & V2 probe, 45°
F-120-V3	carrier s::can spectrometer V3 & V2 probe, for vertical attachment
F-446-V3	flow cell AutoBrush, POM-C (for spectrometer V3 & V2 pathlength 35 mm)
S-11-xx-moni	moni::tool Software



### technical specification

measuring principle	UV-Vis spectrometry 190 - 750 nm	cable length	1 m fixed cable (-010) or 7.5 m fixed cable (-075) or 15 m fixed cable (-150)
measurement interval	10 sec (configurable, depending on application)	cable type	PU jacket
automatic compensation cross sensitivities	turbidity / solids / organic substances	housing material	stainless steel 1.4404
precalibrated ex-works	all parameters	window material	optical path length 5 and 1 mm: sapphire optical path length 35 mm: fused silica (UV-grade)
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)	weight (min.)	3.4 kg (incl. cable)
access to raw signals	no	dimensions (Ø x l)	optical path length 35 mm: 44 x 473 mm / 517.5 mm optical path length 5 mm: 44 x 457 mm / 501.5 mm optical path length 1 mm: 44 x 453 mm / 497.5 mm
reference standard	distilled water	operating temperature	0 ... 45 °C
onboard memory	8 GB	storage temperature	-10 ... 65 °C
integrated temperature sensor	0 ... 45 °C	operating pressure	0 ... 3 bar
resolution temperature sensor	0.1 °C	high pressure specification (optional)	10 bar
integration via	con::cube V3 con::nect V3 con::lyte V5 (D-320-pro2) and adapter cable (C-32-V3)	installation / mounting	submersed or in a flow cell
power supply	10 ... 18 VDC	flow velocity	3 m/s (max.)
power consumption (typical)	3 W	mechanical stability	30 Nm
power consumption (sleep model)	60 mW	ingress protection class	IP68
power consumption (max.)	20 W	automatic cleaning	media: compressed air or autobrush permissible pressure: 3 ... 6 bar
interface to s::can terminals	M12 RSTS 8Y (IP67), RS485, Ethernet	conformity - environmental testing	EN 60721-3
interface to third party terminals	con::nect V3 incl. Modbus RTU, REST API, Modbus TCP/IP	conformity - EMC	EN 61326-1
digital interface (for cleaning devices)	1 digital in/out 1 digital out	conformity - RoHS 2	EN 50581
status information	RGB LED ring	standard warranty	2 years
internal sensors	supply voltage sensor, tilt sensor, rotation sensor	extended warranty (optional)	3 years

### surface water

		parameter			part number
		turbidity [NTU/FTU]	NO <sub>3</sub> -N [mg/l]	NO <sub>3</sub> [mg/l]	
nitro::lyser™ II (2 parameters, 5 mm OPL)	min.	0	0	0	G3-N2-R-05-NO-xxx
	max.	1400	100	460	

### ground water

		parameter			part number
		turbidity [NTU/FTU]	NO <sub>3</sub> -N [mg/l]	NO <sub>3</sub> [mg/l]	
nitro::lyser™ II (2 parameters, 35 mm OPL)	min.	0	0	0	G3-N2-G-35-NO-xxx
	max.	170	20	88	

### drinking water

		parameter			part number
		turbidity [NTU/FTU]	NO <sub>3</sub> -N [mg/l]	NO <sub>3</sub> [mg/l]	
nitro::lyser™ II (2 parameters, 35 mm OPL)	min.	0	0	0	G3-N2-D-35-NO-xxx
	max.	170	20	88	