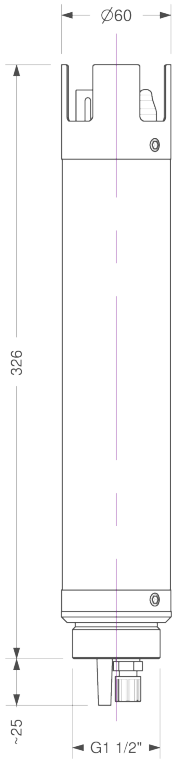
ammo::lyser™ pro

ammo::lyser™ III pro monitors NH_4-N and temperature (with potassium compensation)

ammo::lyser™ IV pro+pH monitors NH_4-N, temperature, pH (with potassium compensation)

ammo::lyser™ IV pro+NO_3-N monitors NH_4-N, temperature und NO_3-N (with potassium compensation)



- s::can plug & measure
- measuring principle: ISE (ionselective electrodes) - with potassium compensation
- multiparameter probe
- long term stable, factory precalibrated
- automatic cleaning with compressed air
- easy & quick mounting and measurement directly in the media (InSitu) or in a flow cell (monitoring station)
- ISE refurbishment - the easy way to minimise maintenance
- unique, non-porous / non-leaking reference electrode for technically unrivalled and consistent performance
- operation via s::can terminals & s::can software
- automatic temperature and potassium compensation, pH compensation possible
- ideal for surface water, ground water, drinking water and waste water
- minimal maintenance
- life time of ISE: typically 6 month (for applications <1mg/l NH_4-N), resp. 1 to 2 years (for applications >1mg/l NH_4-N)
- plug connection or fixed cable

recommended accessories	
part number	**article name**
B-44 B-44-2	cleaning valve
C-1-010-sensor	1 m connection cable for s::can physical and ISE probes
F-11-oxi-ammo	carrier oxi::lyser / soli::lyser / s::can ISE probes
F-45-ammo	flow cell for ammo::lyser™
F-45-process	process connection 1/4" G

technical specification

measuring principle	ISE
measuring principle detail	NH4-N: ionophore membrane K: ionophore membrane pH: non-porous reference electrode NO3-N: ionophore membrane
measuring range application	0.1 ... 1000 mg/l NH_4-N (factory precalibrated: 0.1 ... 20 mg/l NH_4-N)
resolution	NH_4-N: 0.02 ...19.99 mg/l NH_4-N: 20.0 ... 99.9 mg/l NH_4-N: 100 ... 1000 mg/l T: 0.1 °C
accuracy (standard solution)	NH4-N: +/-3% of measuring range or +/-0.1mg/l* (*whichever is greater)
automatic compensation cross sensitivities	E-532-pro-xxx: temp, K E-532-pro-pH-xxx: temp, pH, K E-532-pro-NO_3-N-xxx: temp, K
precalibrated ex-works	all parameters
response time	60 sec.
integration via	con::cube con::lyte con::nect
power supply	10 ... 30 VDC
power consumption (typical)	0.72 W
interface to s::can terminals	sys plug (IP67), RS485
cable length	7.5 m fixed cable (-075) or plug connection (-000)

cable type	PU jacket
housing material	stainless steel 1.4571, POM-C
weight (min.)	2.7 kg
dimensions (Ø x l)	60 x 326 mm
operating temperature	0 ... 60 °C
operating pressure	0 ... 400 mbar
installation / mounting	submersed or in a flow cell
process connection	bayonet
flow velocity	0.01 m/s (min.) 3 m/s (max.)
automatic cleaning	media: compressed air permissible pressure: 2 ... 4 bar air volume: 3 ... 9 l per cleaning duration: 2 ... 10 sec. per cleaning cleaning interval: 30 ... 120 min., depending on application delay: 10 ... 30 sec.
conformity - EMC	EN 50081-1 EN 50082-1 EN 60555-2 EN 60555-3
conformity - safety	EN 61010-1
storage temperature (electrode)	-5 ... 30 °C
storage temperature (sensor)	0 ... 60 °C
protection class (-000)	IP67
protection class (-075)	IP68

surface water

		concentration ranges and sensor/probe type for this application					
		NH_4-N [mg/l]	NO_3-N [mg/l]	K [mg/l]	pH [pH]	temperature [°C]	part number
ammo::lyser™ III pro (NH_4-N, K, temp)	min.	0.1		0		0	E-532-pro-000 / -075
	max.	2		10		30	
ammo::lyser™ IV pro+NO_3-N (NH_4-N, NO_3-N, K, temp)	min.	0.1	0	0		0	E-532-pro+NO_3-N-000 / -075
	max.	2	200	10		30	
ammo::lyser™ IV pro+pH (NH_4-N, pH, K, temp)	min.	0.1		0	4	0	E-532-pro+pH-000 / -075
	max.	2		10	10	30	