

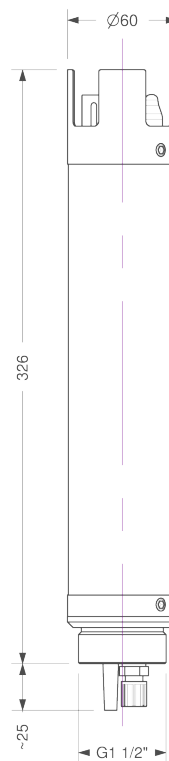
# ammo::lyser™ pro

ammo::lyser™ III pro monitors NH<sub>4</sub>-N and temperature

ammo::lyser™ IV pro+pH monitors NH<sub>4</sub>-N, temperature and pH

ammo::lyser™ IV pro+NO<sub>3</sub>-N monitors NH<sub>4</sub>-N, temperature and NO<sub>3</sub>-N

- 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<sub>4</sub>-N), resp. 1 to 2 years (for applications >1mg/l NH<sub>4</sub>-N)
- plug connection or fixed cable
- automatic compensation against cross-sensitivities (potassium & pH, optional)



## recommended accessories

part number	article name
F-11-oxi-ammo	carrier oxi::lyser / soli::lyser / s::can ISE probes
C-210-sensor	10 m extension cable for s::can physical probes and s::can ISE probes
B-44	cleaning valve
B-44-2	
F-48-ammo	ammo::lyser flow-cell (by-pass setup), PVC
D-330-xxx	con::cube V3
D-320-xxx	con::lyte



### technical specification

measuring principle	ISE	cable length	7.5 m fixed cable (-075) or plug connection (-000)
measuring principle detail	NH4-N: ionophore membrane K: ionophore membrane pH: non-porous reference electrode NO3-N: ionophore membrane	cable type	PU jacket
resolution	NH4-N, K, NO3-N, Cl, F: 0.01 at 0.02 ... 19.99 mg/l 0.1 at 20.0 ... 99.9 mg/l 1 at 100 ... 1000 mg/l T: 0.1 °C	housing material	stainless steel 1.4571, POM-C
accuracy (standard solution)	NH4-N: +/-3% or +/-0.1mg/l* (*whichever is greater)	weight (min.)	2.7 kg
automatic compensation cross sensitivities	E-532-pro-xxx: temp, K E-532-pro-pH-xxx: temp, pH, K E-532-pro-NO3-N-xxx: temp, K	dimensions (Ø x l)	60 x 326 mm
precalibrated ex-works	all parameters	operating temperature	0 ... 60 °C
response time (T90)	0 ... 120 sec.	operating pressure	0 ... 1 bar
integration via	con::nect con::lyte	installation / mounting	submersed or in a flow cell
power supply	10 ... 30 VDC	process connection	bayonet
power consumption (typical)	0.72 W	flow velocity	0.01 m/s (min.) 3 m/s (max.)
interface to s::can terminals	sys plug (IP67), RS485	automatic cleaning	media: compressed air permissible pressure: 2 ... 4 bar
		storage temperature (electrode)	2 ... 40 °C
		storage temperature (sensor)	2 ... 40 °C
		conformity - EMC	EN 50081-1 EN 50082-1 EN 60555-2 EN 60555-3
		conformity - safety	EN 61010-1
		protection class (-000)	IP67
		protection class (-075)	IP68

### measuring range

		parameter					part number
		NH <sub>4</sub> -N [mg/l]	NO <sub>3</sub> -N [mg/l]	K [mg/l]	pH [pH]	temperature [°C]	
ammo::lyser™ III pro (NH <sub>4</sub> -N, K, temp)	min.	0.1		1		0	E-532-pro-000 / -075
	max.	1000		1000		60	
ammo::lyser™ IV pro+NO <sub>3</sub> -N (NH <sub>4</sub> -N, NO <sub>3</sub> -N, K, temp)	min.	0.1	0.3	1		0	E-532-pro+NO <sub>3</sub> -N-000 / -075
	max.	1000	1000	1000		60	
ammo::lyser™ IV pro+pH (NH <sub>4</sub> -N, pH, K, temp)	min.	0.1		1	2	0	E-532-pro+pH-000 / -075
	max.	1000		1000	12	60	