

# ammo::lyser™ eco

ammo::lyser™ II eco: monitors  $\text{NH}_4\text{-N}$  and temperature

ammo::lyser™ III eco+pH additionally monitors pH

ammo::lyser™ III eco+ $\text{NO}_3\text{-N}$  additionally monitors  $\text{NO}_3\text{-N}$

ammo::lyser™ III eco+Cl- additionally monitors chloride

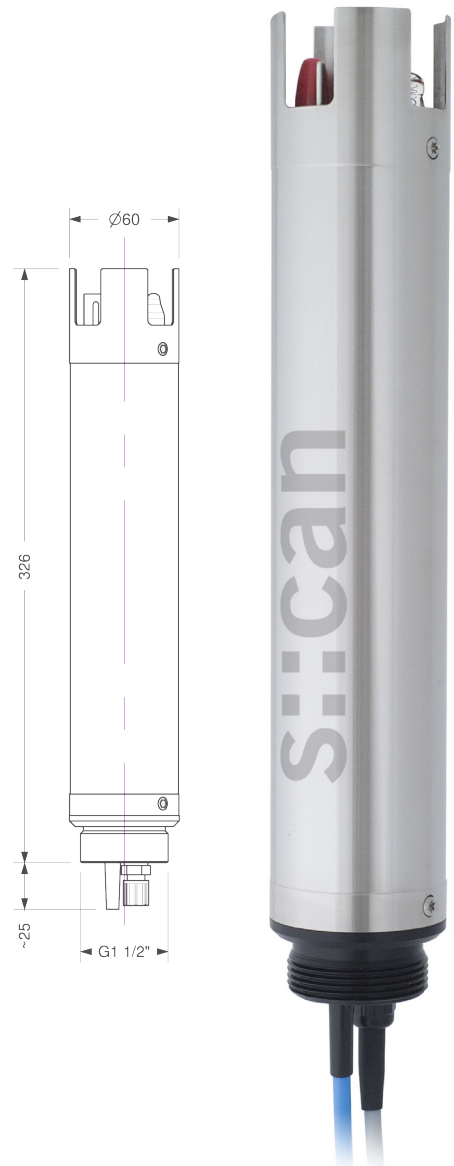
ammo::lyser™ IV eco+pH+ $\text{NO}_3\text{-N}$  additionally monitors pH and  $\text{NO}_3\text{-N}$

ammo::lyser™ VI eco+pH+Cl- additionally monitors pH and chloride

- s::can plug & measure
- measuring principle: ISE (ionselective electrodes) - without potassium compensation
- multiparameter probe
- long term stable, factory precalibrated
- automatic cleaning with compressed air
- unique, non-porous / non-leaking reference electrode for technically unrivalled and consistent performance
- ISE refurbishment - the easy way to minimise maintenance
- easy & quick mounting and measurement directly in the media (InSitu) or in a flow cell (monitoring station)
- operation via s::can terminals & s::can software
- automatic temperature compensation and 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  $<1\text{mg/l}$   $\text{NH}_4\text{-N}$ ), resp. 1 to 2 years (for applications  $>1\text{mg/l}$   $\text{NH}_4\text{-N}$ )
- plug connection or fixed cable

## recommended accessories

part number	article name
B-44	cleaning valve
B-44-2	
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™



### technical specification

measuring principle	ISE	interface to s::can terminals	sys plug (IP67), RS485
measuring principle detail	NH <sub>4</sub> -N: ionophore membrane pH: non-porous reference electrode NO <sub>3</sub> -N: ionophore membrane Cl <sup>-</sup> : ionophore membrane	cable length	7.5 m fixed cable (-075) or plug connection (-000)
measuring range application	1 ... 1000 mg/l NH <sub>4</sub> -N and Cl <sup>-</sup> (factory precalibrated: 1 ... 100 mg/l NH <sub>4</sub> -N)	cable type	PU jacket
resolution	NH <sub>4</sub> -N: 0.02 ... 19.99 mg/l NH <sub>4</sub> -N: 20.0 ... 99.9 mg/l NH <sub>4</sub> -N: 100 ... 1000 mg/l T: 0.1 °C	housing material	stainless steel 1.4571, POM-C
accuracy (standard solution)	NH <sub>4</sub> -N: +/-3% of measuring range or +/-0.5mg/l* (*whichever is greater)	weight (min.)	2.7 kg
automatic compensation cross sensitivities	E-532-eco-xxx: temp E-532-eco-pH-xxx: temp, pH E-532-eco-NO <sub>3</sub> -N-xxx: temp E-532-eco-NO <sub>3</sub> -N-pH-xxx: temp, pH E-532-eco-CL-xxx: temp E-532-eco-CL-pH-xxx: temp, pH	dimensions (Ø x l)	60 x 326 mm
precalibrated ex-works	all parameters	operating temperature	0 ... 60 °C
response time	0 ... 60 sec.	operating pressure	0 ... 400 mbar
integration via	con::cube con::lyte con::nect	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.)
		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 <sub>4</sub> -N [mg/l]	NO <sub>3</sub> -N [mg/l]	pH [pH]	Cl <sup>-</sup> [mg/l]	temperature [°C]	part number
ammo::lyser™ II eco (NH <sub>4</sub> -N, temp)	min.	0.1				0	E-532-eco-000 / -075
	max.	20				30	
ammo::lyser™ III eco+Cl <sup>-</sup> (NH <sub>4</sub> -N, temp, Cl <sup>-</sup> )	min.	0.1			0.1	0	E-532-eco-CL-000 / -075
	max.	20			200	30	
ammo::lyser™ III eco+NO <sub>3</sub> -N (NH <sub>4</sub> -N, temp, NO <sub>3</sub> -N)	min.	0.1	0.1			0	E-532-eco-NO <sub>3</sub> -N-000 / -075
	max.	20	200			30	
ammo::lyser™ III eco+pH (NH <sub>4</sub> -N, temp, pH)	min.	0.1		4		0	E-532-eco-pH-000 / -075
	max.	20		10		30	
ammo::lyser™ IV eco+Cl <sup>-</sup> (NH <sub>4</sub> -N, temp, Cl <sup>-</sup> , pH)	min.	0.1		4	0.1	0	E-532-eco-CL-pH-000 / -075
	max.	20		10	200	30	
ammo::lyser™ IV eco+NO <sub>3</sub> -N+pH (NH <sub>4</sub> -N, temp, NO <sub>3</sub> -N, pH)	min.	0.1	0.1	4		0	E-532-eco-NO <sub>3</sub> -N-pH-000 / -075
	max.	20	200	10		30	

### drinking water

		concentration ranges and sensor/probe type for this application					
		NH <sub>4</sub> -N [mg/l]	NO <sub>3</sub> -N [mg/l]	pH [pH]	Cl <sup>-</sup> [mg/l]	temperature [°C]	part number
ammo::lyser™ II eco (NH <sub>4</sub> -N, temp)	min.	0.02				0	E-532-eco-000 / -075
	max.	2				30	
ammo::lyser™ III eco+Cl <sup>-</sup> (NH <sub>4</sub> -N, temp, Cl <sup>-</sup> )	min.	0.02			0.1	0	E-532-eco-CL-000 / -075
	max.	2			100	30	
ammo::lyser™ III eco+NO <sub>3</sub> -N (NH <sub>4</sub> -N, temp, NO <sub>3</sub> -N)	min.	0.02	0.1			0	E-532-eco-NO <sub>3</sub> -N-000 / -075
	max.	2	200			30	
ammo::lyser™ III eco+pH (NH <sub>4</sub> -N, temp, pH)	min.	0.02		4		0	E-532-eco-pH-000 / -075
	max.	2		10		30	
ammo::lyser™ IV eco+Cl <sup>-</sup> (NH <sub>4</sub> -N, temp, Cl <sup>-</sup> , pH)	min.	0.02		4	0	0	E-532-eco-CL-pH-000 / -075
	max.	2		10	100	30	
ammo::lyser™ IV eco+NO <sub>3</sub> -N+pH (NH <sub>4</sub> -N, temp, NO <sub>3</sub> -N, pH)	min.	0.02	0.1	4		0	E-532-eco-NO <sub>3</sub> -N-pH-000 / -075
	max.	2	200	10		30	