

# ammo::lyser™ pro

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

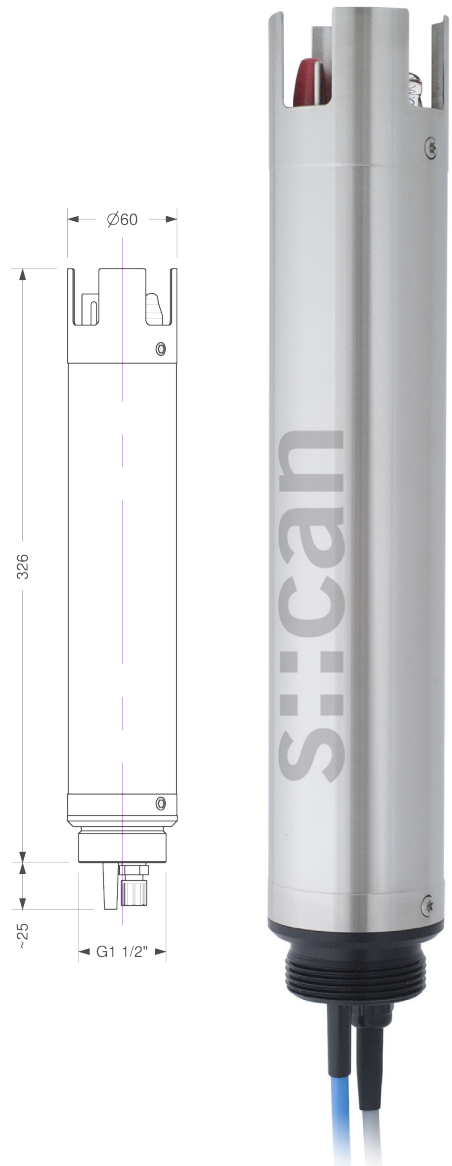
ammo::lyser™ IV pro+pH monitors NH<sub>4</sub>-N, temperature and pH

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

## recommended accessories

part number	article name
F-11-oxi-ammo	carrier oxi::lyser / soli::lyser / s::can ISE probes
F-45-process	process connection 1/4" G
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



**technical specification**

measuring principle	ISE	cable type	PU jacket
measuring principle detail	NH <sub>4</sub> -N: ionophore membrane K: ionophore membrane pH: non-porous reference electrode NO <sub>3</sub> -N: ionophore membrane	housing material	stainless steel 1.4571, POM-C
measuring range application	0.1 ... 1000 mg/l NH <sub>4</sub> -N (factory precalibrated: 0.1 ... 20 mg/l NH <sub>4</sub> -N)	weight (min.)	2.7 kg
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	dimensions (Ø x l)	60 x 326 mm
accuracy (standard solution)	NH <sub>4</sub> -N: +/-3% of measuring range or +/-0.1mg/l* (*whichever is greater)	operating temperature	0 ... 60 °C
automatic compensation cross sensitivities	E-532-pro-xxx: temp, K E-532-pro-pH-xxx: temp, pH, K E-532-pro-NO <sub>3</sub> -N-xxx: temp, K	operating pressure	0 ... 400 mbar
precalibrated ex-works	all parameters	installation / mounting	submersed or in a flow cell
response time	60 ... 0 sec.	process connection	bayonet
integration via	con::cube con::nect con::lyte	flow velocity	0.01 m/s (min.) 3 m/s (max.)
power supply	10 ... 30 VDC	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.
power consumption (typical)	0.72 W	conformity - EMC	EN 50081-1 EN 50082-1 EN 60555-2 EN 60555-3
interface to s::can terminals	sys plug (IP67), RS485	conformity - safety	EN 61010-1
cable length	7.5 m fixed cable (-075) or plug connection (-000)	storage temperature (electrode)	-5 ... 30 °C
		storage temperature (sensor)	0 ... 60 °C
		protection class (-000)	IP67
		protection class (-075)	IP68

**municipal WWTP influent**

		concentration ranges and sensor/probe type for this application					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.	10		0		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.	10	0	0		0	E-532-pro+NO <sub>3</sub> -N-000 / -075
	max.	1000	500	1000		60	
ammo:lyser™ IV pro+pH (NH <sub>4</sub> -N, pH, K, temp)	min.	10		0	2	0	E-532-pro+pH-000 / -075
	max.	1000		1000	12	60	

**municipal WWTP aeration**

		concentration ranges and sensor/probe type for this application					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.	0.3		0		0	E-532-pro-000 / -075
	max.	30		500		60	
ammo:lyser™ IV pro+NO <sub>3</sub> -N (NH <sub>4</sub> -N, NO <sub>3</sub> -N, K, temp)	min.	0.3	0	0		0	E-532-pro+NO <sub>3</sub> -N-000 / -075
	max.	30	200	500		60	
ammo:lyser™ IV pro+pH (NH <sub>4</sub> -N, pH, K, temp)	min.	0.3		0	2	0	E-532-pro+pH-000 / -075
	max.	30		500	12	60	

**municipal WWTP effluent**

		concentration ranges and sensor/probe type for this application					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		0		0	E-532-pro-000 / -075
	max.	10		100		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	0		0	E-532-pro+NO <sub>3</sub> -N-000 / -075
	max.	10	100	100		60	
ammo:lyser™ IV pro+pH (NH <sub>4</sub> -N, pH, K, temp)	min.	0.1		0	4	0	E-532-pro+pH-000 / -075
	max.	10		100	10	60	