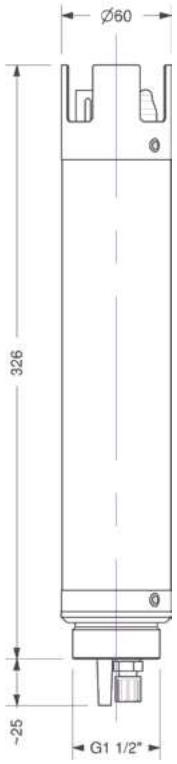
ammo::lyser™ pro

ammo::lyser™ III pro monitors NH_4-N and temperature

ammo::lyser™ IV pro+pH monitors NH_4-N, temperature and pH

ammo::lyser™ IV pro+NO_3-N monitors NH_4-N, temperature and NO_3-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_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**
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 B-44-2	cleaning valve
F-48-ammo	ammo::lyser flow-cell (by-pass setup), PVC

technical specification

measuring principle	ISE
measuring principle detail	NH4-N: ionophore membrane K: ionophore membrane pH: non-porous reference electrode NO3-N: ionophore membrane
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
accuracy (standard solution)	NH4-N: +/-3% 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 (T90)	60 ... 0 sec.
integration via	con::cube con::nect con::lyte
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 ... 1 bar
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
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					
		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		1		0	E-532-pro-000 / -075
	max.	1000		1000		60	
ammo::lyser™ IV pro+NO_3-N (NH_4-N, NO_3-N, K, temp)	min.	0.1	0.3	1		0	E-532-pro+NO_3-N-000 / -075
	max.	1000	1000	1000		60	
ammo::lyser™ IV pro+pH (NH_4-N, pH, K, temp)	min.	0.1		1	2	0	E-532-pro+pH-000 / -075
	max.	1000		1000	12	60	

ammo::lyser™ eco

ammo::lyser™ II eco: monitors NH_4-N and temperature

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

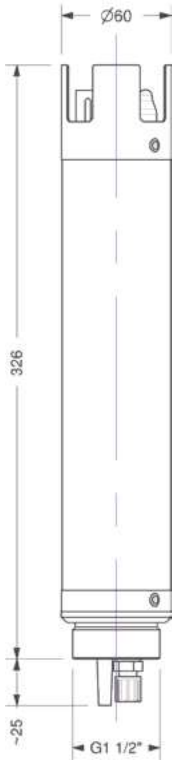
ammo::lyser™ III eco+NO_3-N additionally monitors NO_3-N

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

ammo::lyser™ IV eco+pH+NO_3-N additionally monitors pH and NO_3-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
- minimal maintenance, 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)
- automatic temperature compensation and pH compensation possible
- ideal for surface water, ground water, drinking water and waste water
- 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-210-sensor	10 m extension cable for s::can physical probes and s::can ISE probes
F-11-oxi-ammo	carrier oxi::lyser / soli::lyser / s::can ISE probes
F-48-ammo	ammo::lyser flow-cell (by-pass setup), PVC

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accuracy (standard solution)	NH4-N: +/-3% or +/-0.5mg/l* (*whichever is greater)
automatic compensation cross sensitivities	E-532-eco-xxx: temp E-532-eco-pH-xxx: temp, pH E-532-eco-NO_3-N-xxx: temp E-532-eco-NO_3-N-pH-xxx: temp, pH E-532-eco-CL-xxx: temp E-532-eco-CL-pH-xxx: temp, pH
precalibrated ex-works	all parameters
response time (T90)	0 ... 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
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flow velocity	0.01 m/s (min.), 3 m/s (max.)
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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				
		NH_4-N [mg/l]	NO_3-N [mg/l]	pH [pH]	temperature [°C]	part number
ammo::lyser™ II eco (NH_4-N, temp)	min.	0.1			0	E-532-eco-000 / -075
	max.	1000			60	
ammo::lyser™ III eco+NO_3-N (NH_4-N, temp, NO_3-N)	min.	0.1	0.3		0	E-532-eco-NO_3-N-000 / -075
	max.	1000	1000		60	
ammo_lyser_III_eco_pH (NH_4-N, Temp, pH)	min.	0.1		2	0	E-532-eco-pH-000 / -075
	max.	1000		12	60	
ammo::lyser™ IV eco+NO_3-N+pH (NH_4-N, temp, NO_3-N, pH)	min.	0.1	0.3	2	0	E-532-eco-NO_3-N-pH-000 / -075
	max.	1000	1000	12	60	