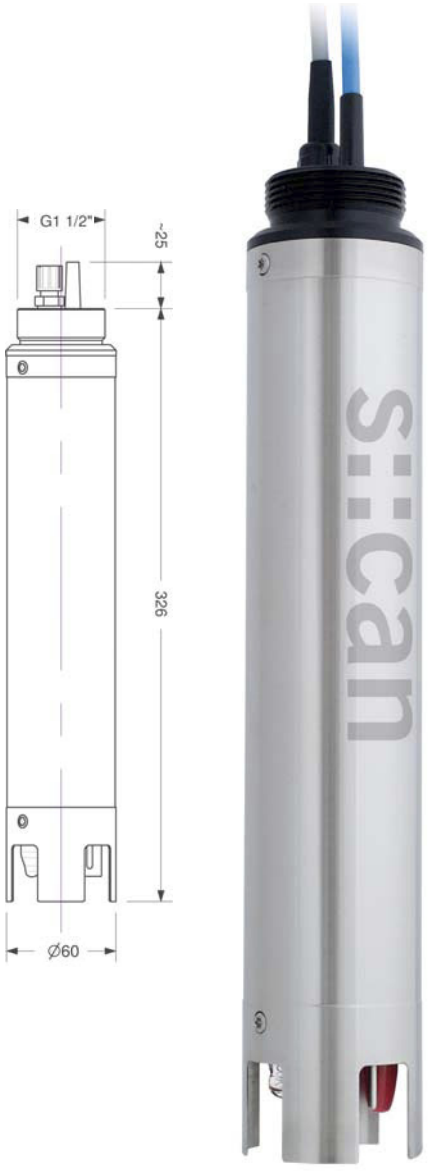
New Zealand Office Contact Details
Tel: 0800 DCM456 (NZ only)
nzoffice@dcmprocesscontrol.com

Australian Office Contact Details
Tel: 1300 735 123 (Australia only)
auoffice@dcmprocesscontrol.com
www.dcmprocesscontrol.com

ammo::lyser™ pro



- s::can plug & measure
- measuring principle: ISE (ionselective electrodes) - with potassium compensation
- multiparameter probe
- 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)
- 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)
- operation via s::can terminals & s::can software
- compensation of disturbing influences - temperature, pH and potassium
- ideal for surface water, ground water, drinking water and waste water
- minimal maintenance
- life time of membranes: typically 6 month (for applications <1mg/l NH_4-N), resp. 1 to 2 years (for applications >1mg/l NH_4-N)
- negligible operational cost because of long membrane life time and the possibility of changing each membrane separately
- unique, non-porous / non-leaking reference electrode for technically unrivalled and consistent performance

recommended accessories	
part number	**article name**
F-11-ammo	carrier ammo::lyser™
F-44-ammo	flow cell for ammo::lyser™
F-50-2-eco F-50-2-pro	system panel for s::can ISE probes or s::can sensors
C-210-sensor	10 m extension cable for s::can sensors and s::can ISE probes
B-44	cleaning valve

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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	+/-3% of measuring range or +/-0.1mg/l NH4-N, whichever is greater
automatic compensation cross sensitivities	type E-532-pro: temperature, K type E-532-pro-pH: temperature, pH, K type E-532-pro-NO_3-N: temperature, K
precalibrated ex-works	all parameters
response time	60 sec.
integration via	con::lyte 1 con::lyte 2 con::lyte 4 con::nect con::stat
power supply	10 ... 30 VDC
power consumption (typical)	0.72 W

interface connection to s::can terminals	sys plug, IP 68, RS485, 12 VDC
cable length	10 m
cable type	PU jacket 2x2x0.25
housing material	stainless steel 1.4571, POM-C, glas electrodes
weight (min.)	2.7 kg
dimensions (diameter x length)	60 x 326 mm
operating temperature	0 ... 60 °C
storage temperature	0 ... 60 °C
operating pressure	0 ... 400 mbar
installation / mounting	submersed or in a flow cell
process connection	G 1 1/2" outside
flowrate	0.01 m/s (min.) 3 m/s (max.)
protection class	IP 68
automatic cleaning	media: compressed air permissible pressure: 3 ... 6 bar air volume: 3 ... 9 liters per cleaning cleaning duration: 4 ... 12 seconds per cleaning cleaning interval: 30 ... 120 minutes, depending on application delay: 10 ... 30 seconds
conformity - EMC	EN 50081-1:1992 EN 50082-1:1992 EN 60555-2:1987 EN 60555-3:1987
conformity - safety	EN 61010-1:2001

municipal WWTP influent

		typical concentration ranges 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, K, temp)	min.	0.1		0.1		0	E-532-pro
	max.	1000		1000		60	
ammo::lyser™ IV pro+NO_3-N (NH_4, NO_3-N, K, temp)	min.	0.1	1	0.1		0	E-532-pro+NO_3-N
	max.	1000	1000	1000		60	
ammo::lyser™ IV pro+pH (NH_4, pH, K, temp)	min.	0.1		0.1	2	0	E-532-pro+pH
	max.	1000		1000	12	60	

municipal WWTP aeration

		typical concentration ranges 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, K, temp)	min.	0.1		0.1		0	E-532-pro
	max.	1000		1000		60	
ammo::lyser™ IV pro+NO_3-N (NH_4, NO_3-N, K, temp)	min.	0.1	1	0.1		0	E-532-pro+NO_3-N
	max.	1000	1000	1000		60	
ammo::lyser™ IV pro+pH (NH_4, pH, K, temp)	min.	0.1		0.1	2	0	E-532-pro+pH
	max.	1000		1000	12	60	

municipal WWTP effluent

		typical concentration ranges 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, K, temp)	min.	0.1		0.1		0	E-532-pro
	max.	1000		1000		60	
ammo::lyser™ IV pro+NO_3-N (NH_4, NO_3-N, K, temp)	min.	0.1	1	0.1		0	E-532-pro+NO_3-N
	max.	1000	1000	1000		60	
ammo::lyser™ IV pro+pH (NH_4, pH, K, temp)	min.	0.1		0.1	2	0	E-532-pro+pH
	max.	1000		1000	12	60	