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

Australian Office Contact Details
Tel: 1300 735 123 (Australia only)
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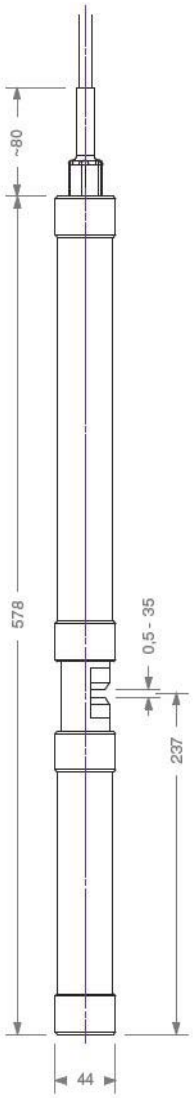
spectro::lyser

- s::can plug & measure
- measuring principle: UV-Vis spectrometry over the total range (220-720 nm or 220-390 nm)
- multiparameter probe
- ideal for surface water, ground water, drinking water and waste water
- spectro::lyser™ UV monitors depending on the application an individual selection of: NO3-N, COD, BOD, TOC, DOC, UV254, NO2-N, BTX, AOC, fingerprints and spectralalarms, temperature and pressure
- spectro::lyser™ UV-Vis monitors depending on the application an individual selection of TSS, turbidity, NO3-N, COD, BOD, TOC, DOC, UV254, color, BTX, O3, H2S, AOC, fingerprints and spectral-alarms, temperature and pressure
- long term stable and maintenance free in operation
- factory precalibrated
- automatic cleaning with compressed air
- mounting and measurement directly in the media (InSitu) or in Bypass (monitoring station)
- operation via s::can terminals & s::can software



recommended accessories

part number	article name
F-11-spectro	carrier s::can™ spectrometer probe
F-443-1	complete Bypass setup - for pathlengths from 1 mm to 35 mm
F-444-2	Bypass fitting brushable - for spectro::lyser™ pathlength 100 mm
F-50-1	system-panel BASIC
F-61	pontoon
B-60-1	cleaning brush for pathlength < 5 mm
B-61-1	cleaning agent
C-210-spectro	10 m extension cable for s::can™ spectrometer probes
E-411	cell holder insert
E-431-a	insert for shortening pathlength - anodised aluminium alloy
B-44	cleaning valve

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technical specification	
measuring principle	UV-Vis spectrometry 220 - 720 nm UV spectrometry 220 - 390 nm
measuring principle detail	xenon flash light, 256 photo diodes
automatic compensation instrument	two beam measurement, complete spectrum
automatic compensation cross sensitivities	turbidity / solids / organic substances
precalibrated ex-works	all parameters
accuracy standard solution (>1 mg/l)	NO_3-N: +/- 3% +1/OPL[mg/l]* COD-KHP: +/-3% +10/OPL[mg/l]* (* OPL ... optical pathlength in mm)
access to raw signals	access to spectral information
reference standard	distilled water
onboard memory	656 KB
integrated temperature sensor	-10 ... 50 °C
resolution temperature sensor	0.1 °C
integrated pressure sensor (optional)	0 ... 10 bar
resolution pressure sensor	2.5 mbar
integration via	con::nect con::stat
power supply	11 ... 15 VDC
power consumption (typical)	4.2 W
power consumption (max.)	20 W
interface connection to s::can terminals	MIL connector, IP 68, RS485, 12 VDC
interface to third party terminals	con::nect incl. gateway modbusRTU
cable length	7.5 m
cable type	PU jacket

housing material	aluminium alloy ISO 3.2315, or stainless steel 1.4571
weight (min.)	2.1 kg
dimensions (diameter x length)	44mm x 578mm / 647mm
operating temperature	0 ... 45 °C
storage temperature	-10 ... 50 °C
operating pressure	0 ... 3 bar
high pressure specification	10 bar
explosion proof specification (optional)	according to EN60079-0, -1, ATEX
installation / mounting	submersed or in Bypass (flow cell)
flowrate	3 m/s (max.)
mechanical stability	30 Nm
protection class	IP 68
automatic cleaning	media: compressed air permissible pressure: 3 to 8 bar air volume: 7 to 20 liter per cleaning cleaning duration: 3 to 15 seconds per cleaning cleaning interval: every 1st to 10th measuring interval, depending on application delay: 10 ... 30 seconds
conformity - EMC	EN 61326:97/A1:98/A2:01
conformity - safety	EN 61010-1:2002
extended spare part warranty (optional)	3 years

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municipal waste water sewage

		typical concentration ranges for this application								
		TSS [mg/l]	NO_3-N [mg/l]	COD [mg/l]	CODf [mg/l]	BOD [mg/l]	UV254 [Abs/m]	UV254t [Abs/m]	H_2S [mg/l]	part number
spectro::lyser™ UV-Vis (TSS, NO_3, COD, BOD, UV254, UV254t)	min.	0	0	0		0	0	0		A1-002-485-p0t0-1-sEX, stainless steel (incl. Global Calibration A-i3)
	max.	3000	40	3750		2000	750	1250		
spectro::lyser™ UV-Vis (TSS, NO_3, COD, CODf, UV254, UV254t)	min.	0	0	0	0		0	0		A1-002-485-p0t0-1-sEX, stainless steel (incl. Global Calibration A-i1)
	max.	3000	40	3750	1250		750	1250		
spectro::lyser™ UV-Vis (TSS, NO_3, COD, CODf_UV254, UV254t, H_2S)	min.	0	0	0	0		0	0	0	A1 002 485 p0t0 1 sEX, stainless steel (incl. Global Calibration A-i5)
	max.	3000	40	3750	1250		750	1250	25	

municipal WWTP influent & sewer

		typical concentration ranges for this application								
		TSS [mg/l]	NO_3-N [mg/l]	COD [mg/l]	CODf [mg/l]	BOD [mg/l]	UV254 [Abs/m]	UV254t [Abs/m]	H_2S [mg/l]	part number
spectro::lyser™ UV-Vis (TSS, NO_3, COD, BOD, UV254, UV254t)	min.	0	0	0		0	0	0		A1-002-485-p0t0-1-sNO, stainless steel (incl. Global Calibration A i3)
	max.	3000	40	3750		2000	750	1250		
spectro::lyser™ UV-Vis (TSS, NO_3, COD, CODf, UV254, UV254t)	min.	0	0	0	0		0	0		A1-002-485-p0t0-1-sNO, stainless steel (incl. Global Calibration A-i1)
	max.	3000	40	3750	1250		750	1250		
spectro::lyser™ UV-Vis (TSS, NO_3, COD, H_2S, UV254, UV254t)	min.	0	0	0			0	0	0	A1-002-485-p0t0-1-sNO, stainless steel (incl. Global Calibration A-i5)
	max.	3000	40	3750			750	1250	25	

diary WWTP influent

		typical concentration ranges for this application						
		TSS [mg/l]	NO_3-N [mg/l]	COD [mg/l]	CODf [mg/l]	UV254 [Abs/m]	UV254t [Abs/m]	part number
spectro::lyser™ UV-Vis (TSS, NO_3, COD, CODf, UV254, UV254t)	min.	100	0	200	100	0	0	A1-001-485-p0t0-1-sNO, stainless steel (incl. Global Calibration A-m1)
	max.	3000	80	12500	5000	1500	2500	

paper mill WWTP influent

		typical concentration ranges for this application					
		TSS [mg/l]	COD [mg/l]	CODf [mg/l]	UV254 [Abs/m]	UV254t [Abs/m]	part number
spectro::lyser™ UV-Vis (TSS, COD, CODf, UV254, UV254t)	min.	0	875	875	0	0	A1-002-485-p0t0-1-sNO, stainless steel (incl. Global Calibration A-p1)
	max.	2500	5000	4250	750	1250	

brewery WWTP influent

		typical concentration ranges for this application				
		TSS [mg/l]	COD [mg/l]	UV254 [Abs/m]	UV254t [Abs/m]	part number
spectro::lyser™ UV-Vis (TSS, COD, UV254, UV254t)	min.	0	500	0	0	A1-002-485-p0t0-1-sNO, stainless steel (incl. Global Calibration A-b1)
	max.	5000	45000	750	1250	

municipal WWTP aeration

		typical concentration ranges for this application					
		TSS [mg/l]	NO_3-N [mg/l]	CODf [mg/l]	UV254 [Abs/m]	UV254t [Abs/m]	part number
spectro::lyser™ UV-Vis (TSS, NO_3, CODf, UV254, UV254t)	min.	0	0	0	0	0	A1-001-485-p0t0-1-aNO, aluminium (incl. Global Calibration A-i1)
	max.	15000	20	400	1500	2500	

municipal WWTP effluent

		typical concentration ranges for this application								
		TSS [mg/l]	TSS est [mg/l]	NO_3 N [mg/l]	COD [mg/l]	CODf [mg/l]	UV254 [Abs/m]	UV254t [Abs/m]	NO_2 N [mg/l]	part number
spectro::lyser™ UV (TSS est, NO_3, COD, UV254t, NO_2)	min.		0	0	0			0	0	A2-005-485-p0t0-1-aNO, aluminium (incl. Global Calibration A-e2)
	max.		300	50	400			500	10	
spectro::lyser™ UV-Vis (TSS, NO_3, COD, CODf, UV254, UV254t)	min.	0		0	0	0	0	0		A1-005-485-p0t0-1-aNO, aluminium (incl. Global Calibration A-e1)
	max.	400		25	400	250	300	500		

paper mill WWTP effluent

		typical concentration ranges for this application						
		TSS [mg/l]	NO_3-N [mg/l]	COD [mg/l]	CODf [mg/l]	UV254 [Abs/m]	UV254t [Abs/m]	part number
spectro::lyser™ UV-Vis (TSS, NO_3, COD, CODf, UV254, UV254t)	min.	0	0	0	0	0	0	A1-002-485-p0t0-1-sNO, stainless steel (incl. Global Calibration A-q1)
	max.	1000	10	350	350	750	1250	