



DESCRIPTION

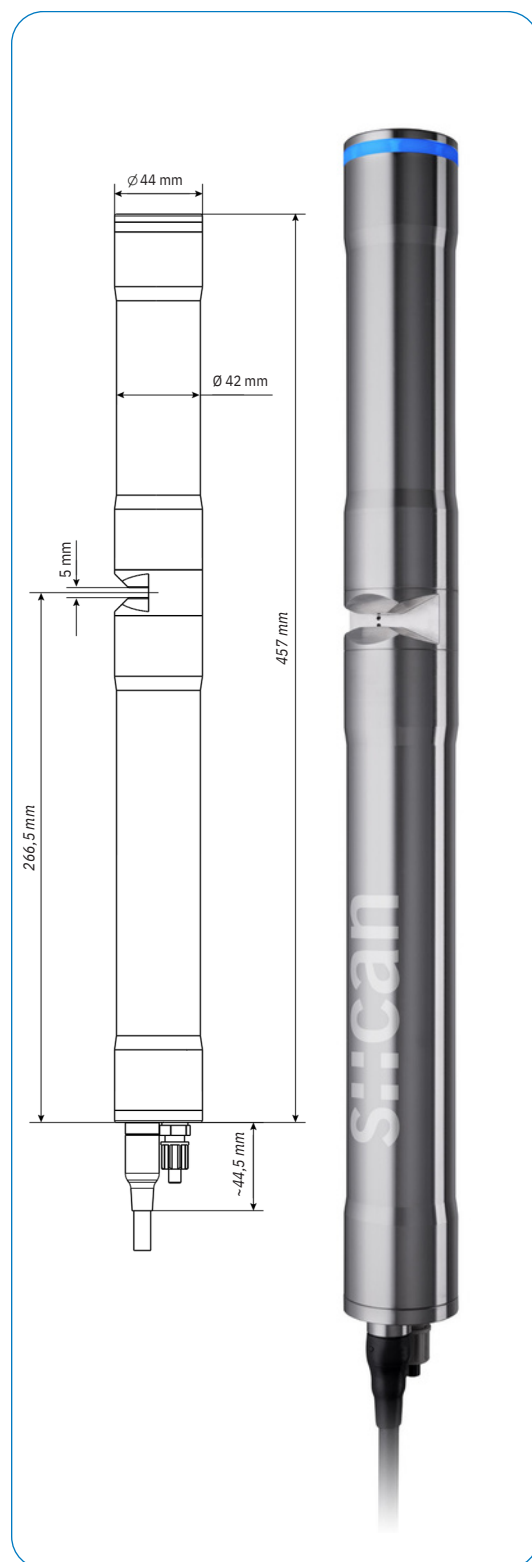
- carbo::lyser II monitors 2 of the following parameters: TSS, TS, TOC, DOC, BOD, COD, COD f, UV254 and UV254 f
- carbo::lyser III monitors 3 of the following parameters: TSS, TOC, DOC, BOD, COD, COD f, UV254 and UV254 f

FEATURES

- Measuring principle: UV-Vis spectrometry over the total range (190–750 nm)
- Web server on board, IoT enabled, no user software is needed to configure the probe
- Communicates directly with your mobile device via WLAN
- 8 GB onboard memory, capacity for logging data for many years
- Improved optical performance, revolutionary precision
- Fast measurement interval, every 30 seconds possible
- Extremely power-efficient sleep mode for low energy consumption
- Multiparameter probe with 1 mm, 5 mm or 35 mm optical path length, ideal for wastewater, surface water and drinking water
- Long term stable and maintenance-free in operation
- Factory precalibrated, local multi-point calibration possible
- Automatic cleaning with compressed air or brush

RECOMMENDED ACCESSORIES

Part Number	Article Name
D-330-xxx	con::cube V3
D-320-pro2-230	con::lyte pro
B-33-012 B-	con::nect V3
32-xxx	s::can compressor
B-44 B-44-2	Cleaning valve
C-32-V3	Adapter cable to connect a V3 spectrometer (M12) to V2 Terminal (MIL Plug)
F-110-V3	Carrier s::can spectrometer V3 & V2 probe, 45°
F-120-V3	Carrier s::can spectrometer V3 & V2 probe, vertical attachment
F-48-V3	Spectrometer V3 & V2 flow cell (bypass setup), PVC
S-11-xx-moni	moni::tool Software
F-146-rs-x	ruck::sack (submersible Autobrush)





TECHNICAL SPECIFICATIONS

Measuring Principle	UV-Vis spectrometry 200–750 nm
Measurement Interval	30 sec (configurable, depending on application)
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	No
Reference Standard	Distilled water
Onboard Memory	8 GB
Integrated Temperature Sensor	0 to 45 °C
Resolution Temperature Sensor	0.1 °C
Integration Via	con::cube V3 con::lyte V5 (D-320-pro2) and Adapter cable (C-32-V3)
Power Supply	10–18 VDC
Power Consumption (Typical)	3 W
Power Consumption (Sleep Model)	60 mW
Power Consumption (max.)	20 W
Interface to s::can Terminals	M12 RSTS 8Y (IP67), RS485, Ethernet
Interface to Third Party Terminals	con::nect V3 incl. Modbus RTU, REST API, Modbus TCP/IP
Digital Interface (for Cleaning Devices)	1 digital in/out; 1 digital out
Internal Sensors	Supply voltage sensor, tilt sensor, rotation sensor
Network Connection	100Base-T Ethernet, WLAN
Status Information	RGB LED ring
Cable length	1 m fixed cable (–010) or 7.5 m fixed cable (–075) or 15 m fixed cable (–150)

Cable Type	PU jacket
Housing Material	Stainless steel 1.4404 (optional titanium)
Window Material	Optical path length 5 and 1 mm: sapphire Optical path length 35 mm: fused silica (UV-grade)
Weight (min.)	3.4 kg (incl. cable)
Dimensions (Ø × l)	Optical path length 35 mm: 44 × 473 mm / 517.5 mm Optical path length 5 mm: 44 × 457 mm / 501.5 mm Optical path length 1 mm: 44 × 453 mm / 497.5 mm
Operating Temperature	0 to 50 °C
Operating Pressure	0–5 bar
High Pressure Specification (Optional)	10 bar
Installation / Mounting	Submersed or in a flow cell
Flow Velocity	3 m/s (max.)
Mechanical Stability	30 Nm
Ingress Protection Class	IP68
Automatic Cleaning	Media: compressed air or autobrush permissible pressure: 3–6 bar
Storage Temperature	–10 to 65 °C
Conformity Environmental Testing	EN 60721-3
Conformity - EMC	EN 61326-1
Conformity - RoHS 2	EN 50581
Standard Guarantee	1 year
Extended Guarantee (Optional)	3 years

MUNICIPAL WWTP INFLUENT & SEWER

		Parameter								Part Number
		TSS [mg/l]	TOC [mg/l]	DOC [mg/l]	BOD [mg/l]	COD [mg/l]	COD f [mg/l]	UV254 [Abs/m]	UV254 f [Abs/m]	
carbo::lyser II (2 parameters, 1 mm OPL)	min.	0	0	0	0	0	0	0	0	G3- C2-I-01-NO -xxx
	max.	8000	3300	2600	5300	10000	5300	3300	2800	
carbo::lyser II (2 parameters, 5 mm OPL)	min.	0	0	0	0	0	0	0	0	G3- C2-I-05-NO -xxx
	max.	1200	500	400	800	1500	800	500	420	
carbo::lyser III (3 parameters, 1mm OPL)	min.	0	0	0	0	0	0	0	0	G3- C3-I-01-NO -xxx
	max.	8000	3300	2300	5300	10000	5300	3300	2800	
carbo::lyser III (3 parameters, 5 mm OPL)	min.	0	0	0	0	0	0	0	0	G3- C3-I-05-NO -xxx
	max.	1200	500	400	800	1500	800	500	420	

MUNICIPAL WWTP EFFLUENT

		Parameter								Part Number
		TSS [mg/l]	TOC [mg/l]	DOC [mg/l]	BOD [mg/l]	COD [mg/l]	COD f [mg/l]	UV254 [Abs/m]	UV254 f [Abs/m]	
carbo::lyser II min. (2 parameters, 5 mm OPL)	min.	0	0	0	0	0	0	0	0	G3- C2-E-05-NO -xxx
	max.	600	400	300	300	500	300	500	420	
carbo::lyser III min. (3 parameters, 5 mm OPL)	min.	0	0	0	0	0	0	0	0	G3- C3-E-05-NO -xxx
	max.	600	400	300	300	500	300	500	420	



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