



DESCRIPTION

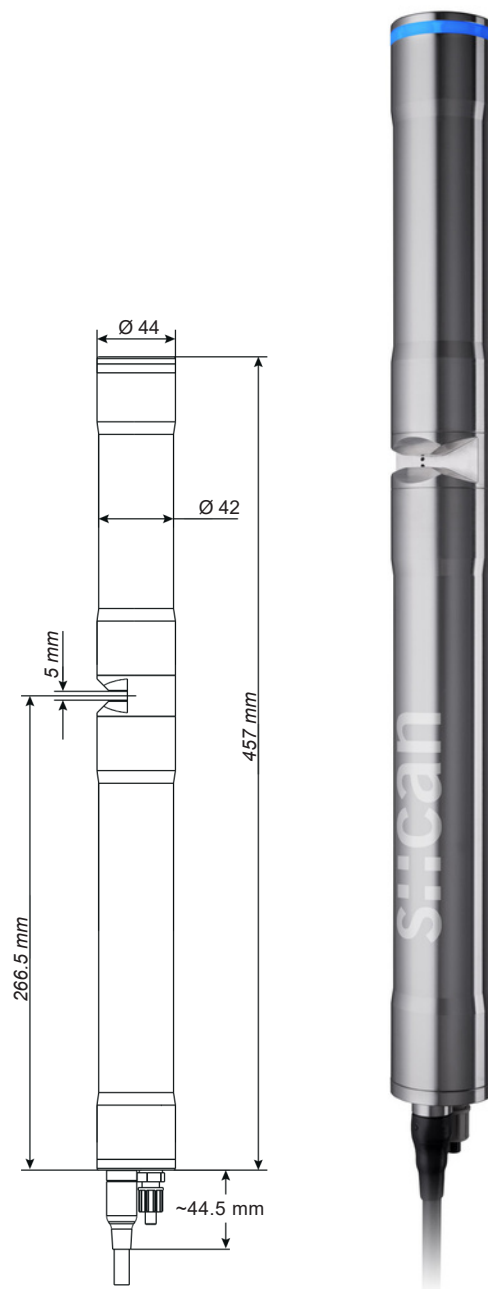
uv::lyser V monitors TSS and up to four (4) freely selectable wavelengths

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
- Field calibration for COD and BOD parameters for selected ranges possible (range depending on OPL/application)

RECOMMENDED ACCESSORIES

PartNumber	ArticleName
D -330-xxx	con::cube V3
D -320-pro2-230	con::lyte pro
B-33-012	con::nect V3
B -32-xxx	s::can compressor
B-44 B -44-2	Cleaning valve
C-32-V3	Adapter cable to connect 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	s::can sensor 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
Integration Via	con::cube V3 con::nect V3 con::lyte V5 (D-320-pro2) and adapter cable (C-32-V3)
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
Precalibrated Ex-works	All parameters
Power Supply	10–18V DC
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 Connections	100 Base-T Ethernet, WLAN
Status Information	RGB LED ring

Cable Type	PU jacket
Cable Length	1 m fixed cable (-010) or 7.5 m fixed cable (-075) or 15 m fixed cable (-150)
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) Optical path length 35 mm: 44 × 473 mm / 517.5 mm
Dimensions (Ø × l)	Optical path length 5 mm: 44 × 457 mm / 501.5 mm Optical path length 1 mm: 44 × 453 mm / 497.5 mm
Weight (min.)	3.4 kg (incl. cable)
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 years
Extended Guarantee (optional)	3 years

Municipal WWTP Influent & Sewer

		Parameter			Part Number
		TSS [mg/l]	UV254 [Abs/m]	UV254 f [Abs/m]	
uv::lyser V (5 parameters, 5 mm OPL)	min.	0	0	0	G3-U5-I-05-NO-xxx
	max.	1200	500	420	
uv::lyser V (5 parameters, 1 mm OPL)	min.	0	0	0	G3-U5-I-01-NO-xxx
	max.	8000	3300	2800	

Municipal WWTP Effluent

		Parameter			Part Number
		TSS [mg/l]	UV254 [Abs/m]	UV254 f [Abs/m]	
uv::lyser V (5 parameters, 5 mm OPL)	min.	0	0	0	G3-U5-E-05-NO-xxx
	max.	600	500	420	

☎ 442 738 3918

✉ contacto@ingframex.com

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