

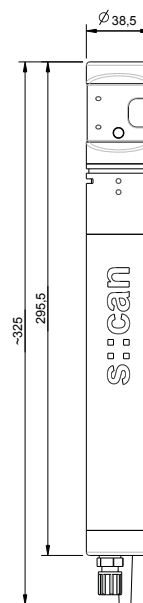
i::scan

i::scan monitors depending on the application an individual selection of: turbidity, TOC, DOC, UV254, UV254 f, color, UVT10, UVT10 f, UVT100 f and temperature

- s::can plug & measure
- turbidity: measurement according to EPA 180.1 and ISO 7027, 90° scattering
- new light emitting technology
- no consumables, no moving parts
- special, non-fouling optical window material
- low power consumption (less than 1 W typical)
- dual-beam compensated optics
- optional automatic cleaning compressed air (InSitu, only for version -075 with fixed cable) or autobrush
- long term stable, 100 % corrosion free
- plug connection or fixed cable
- 5000 hours maintenance free operation
- mounting and measurement directly in the media (InSitu) or in a flow cell (monitoring station)
- can be mounted directly in a mains pipe / pressure pipe
- operation via s::can terminals & s::can software

recommended accessories

part number	article name
B-32-xxx	s::can compressor
D-315-xxx	con::cube
F-110-iscan	carrier i::scan, for easy horizontal attachment
F-446-m-iscan	Brush unit AutoBrush, Pom-C (for i::scan)
S-11-xx-moni	moni::tool Software



technical specification

measuring principle	combined 180° absorption and 90° scattering turbidity: according to EPA 180.1 and ISO 7027 spectrometry	power consumption (typical)	20 mA @ 12V
resolution	turbidity: 0.001 NTU/FTU color: 0.01 Hazen UV254: 0.015 Abs/m TOC: 0.01 mg/l	power consumption (max.)	200 mA @ 12V
accuracy (standard solution)	turbidity submersed: 0.1 NTU/FTU or +/- 5 %* in flow cell: 0.02 NTU/FTU or +/- 2.5 %* color: 1 Hazen or +/- 2.5 %* TOC: 0.1 mg/l or +/- 2.5 %* UV254: 0.1 Abs/m or +/- 2.5 %* (*whichever is greater)	interface to s::can terminals	RS485, MODBUS
automatic compensation instrument	dual-beam and 180° path	cable length	7.5 m fixed cable (-075) or plug connection (-000)
precalibrated ex-works	all parameters	housing material	PEEK, POM-C
reference standard	distilled water	weight (min.)	approx. 330 g
onboard memory	512 MB	dimensions (Ø x l)	38.5 x 325 mm
integrated temperature sensor	-20 ... 70 °C	operating temperature	0 ... 45 °C
resolution temperature sensor	0.06 °C	storage temperature	-20 ... 60 °C
integration via	con::cube con::lyte con::nect	operating pressure	0 ... 6 bar
power supply	10 ... 18 VDC	installation / mounting	submersed or in a flow cell
		flow velocity	3 m/s (max.)
		automatic cleaning	with autobrush or compressed air (only possible for version (-075) with fixed cable) permissible pressure: 3 ... 6 bar cleaning interval: depending on application
		cleaning pressure	6 bar
		conformity - EMC	EN 61326-1 EN 61326-2-3
		conformity - safety	EN 61010-1
		protection class (-000)	IP67
		protection class (-075)	IP68

surface water

		concentration ranges and sensor/probe type for this application								part number
		turbidity [NTU/FTU]	TOC [mg/l]	DOC [mg/l]	UV254 [Abs/m]	UV254 f [Abs/m]	UVT10 [%]	color (app) [Hazen]	color (tru) [Hazen]	
i::scan_NTU/FTU	min.	0								Y01-1-r-000 / -075
	max.	800								
i::scan_NTU/FTU+Color	min.	0						0	0	Y02-1-r-000 / -075
	max.	800						500	300	
i::scan_NTU/FTU+UV254	min.	0			0	0	25			Y03-2-r-000 / -075
	max.	800			70	55	100			
i::scan_NTU/FTU+UV254+Color	min.	0			0	0	25	0	0	Y04-2-r-000 / -075
	max.	800			70	55	100	500	300	
i::scan_NTU/FTU+TOC_eq+UV254	min.	0	0	0	0					Y05-3-r-000 / -075
	max.	800	25	12	70					
i::scan_NTU/FTU+TOC_eq+UV254+Color	min.	0	0	0	0			0	0	Y06-3-r-000 / -075
	max.	800	25	12	70			500	300	

drinking water

		concentration ranges and sensor/probe type for this application								part number
		turbidity [NTU/FTU]	TOC [mg/l]	DOC [mg/l]	UV254 [Abs/m]	UV254 f [Abs/m]	UVT10 [%]	color (app) [Hazen]	color (tru) [Hazen]	
i::scan_NTU/FTU	min.	0								Y01-1-d-000 / -075
	max.	800								
i::scan_NTU/FTU+Color	min.	0						0	0	Y02-1-d-000 / -075
	max.	800						300	200	
i::scan_NTU/FTU+UV254	min.	0			0	0	25			Y03-2-d-000 / -075
	max.	800			70	55	100			
i::scan_NTU/FTU+UV254+Color	min.	0			0	0		0	0	Y04-2-d-000 / -075
	max.	800			70	55		300	200	
i::scan_NTU/FTU+TOC_eq+UV254	min.	0	0	0	0					Y05-3-d-000 / -075
	max.	800	25	12	70					
i::scan_NTU/FTU+TOC_eq+UV254+Color	min.	0	0	0	0			0	0	Y06-3-d-000 / -075
	max.	800	25	12	70			300	200	