

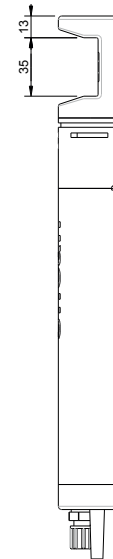
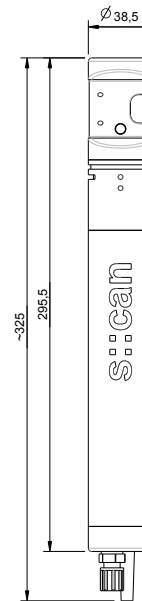
# i::scan

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 (35 mm path length)
- 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	35 mm optical path length: spectrometry combined 180° absorption and 90° scattering turbidity: according to EPA 180.1 and ISO 7027 5 mm optical path length: absorption	power supply	10 ... 18 VDC
resolution	turbidity (35 mm): 0.001 NTU/FTU turbidity (5 mm): 0.01 NTU/FTU (0.1 above 1000 NTU/FTU) color: 0.01 Hazen UV254: 0.015 Abs/m TOC: 0.01 mg/l	power consumption (typical)	20 mA @ 12V
		power consumption (max.)	200 mA @ 12V
accuracy (standard solution)	turbidity submersed (5 mm): 2 NTU/FTU or +/- 5 %* turbidity in flow cell (35 mm): 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
		cable length	7.5 m fixed cable (-075) or plug connection (-000)
automatic compensation instrument	dual-beam and 180° path	housing material	PEEK, POM-C
precalibrated ex-works	all parameters	weight (min.)	approx. 330 g
reference standard	distilled water	dimensions (Ø x l)	35 mm path length: 38.5 x 325 mm  5 mm path length: 38.5 x 295 mm
onboard memory	512 MB	operating temperature	0 ... 45 °C
integrated temperature sensor	-20 ... 70 °C	operating pressure	0 ... 8 bar
resolution temperature sensor	0.06 °C	installation / mounting	submersed or in a flow cell
integration via	con::cube con::lyte con::nect	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
		storage temperature	-20 ... 60 °C
		conformity - EMC	EN 61326-1 EN 61326-2-3
		conformity - safety	EN 61010-1
		protection class (-000)	IP67
		protection class (-075)	IP68

**surface water**

		parameter								part number
		turbidity [NTU/FTU]	color (app) [Hazen]	color (tru) [Hazen]	TOC [mg/l]	DOC [mg/l]	UV254 [Abs/m]	UV254 f [Abs/m]	UVT10 [%]	
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	500						
i::scan_NTU/FTU+UV254	min.	0					0	0	25	Y03-2-r-000 / -075
	max.	800					70	70	100	
i::scan_NTU/FTU+UV254+Color	min.	0	0	0			0	0	25	Y04-2-r-000 / -075
	max.	800	500	500			70	70	100	
i::scan_NTU/FTU+TOC_eq+UV254	min.	0			0	0	0			Y05-3-r-000 / -075
	max.	800			25	25	70			
i::scan_NTU/FTU+TOC_eq+UV254+Color	min.	0	0	0	0	0	0			Y06-3-r-000 / -075
	max.	800	500	500	25	25	70			
i::scan_NTU/FTU (5 mm path length)	min.	0								Y13-1-c-075
	max.	3000								

**drinking water**

		parameter								part number
		turbidity [NTU/FTU]	color (app) [Hazen]	color (tru) [Hazen]	TOC [mg/l]	DOC [mg/l]	UV254 [Abs/m]	UV254 f [Abs/m]	UVT10 [%]	
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	500	500						
i::scan_NTU/FTU+UV254	min.	0					0	0	25	Y03-2-d-000 / -075
	max.	800					70	70	100	
i::scan_NTU/FTU+UV254+Color	min.	0	0	0			0	0		Y04-2-d-000 / -075
	max.	800	500	500			70	70		
i::scan_NTU/FTU+TOC_eq+UV254	min.	0			0	0	0			Y05-3-d-000 / -075
	max.	800			25	25	70			
i::scan_NTU/FTU+TOC_eq+UV254+Color	min.	0	0	0	0	0	0			Y06-3-d-000 / -075
	max.	800	500	500	25	25	70			