

i::scan

i::scan_NTU/FTU monitors turbidity

i::scan_NTU/FTU+color monitors turbidity and color

i::scan_NTU/FTU+UV254 monitors turbidity and UV254

i::scan_NTU/FTU+UV254+Color monitors turbidity, UV254 and color

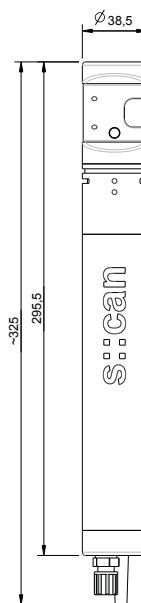
i::scan_NTU/FTU+TOC_eq monitors turbidity and TOC

i::scan_NTU/FTU+TOC_eq+Color monitors turbidity, TOC and color

- s::can plug & measure
- turbidity: measurement according to EPA 180.1 and ISO 7027, combined 180° and 90° scattering
- new light emitting technology
- no consumables
- no moving parts
- low power consumption (less than 1 W typical)
- dual-beam compensated optics
- optional automatic cleaning (compressed air InSitu or autobrush in flow cell)
- multiple versions for multiple applications
- 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
D-319-xxx	con::lyte
F-120-iscan	carrier i::scan (180°)
F-110-iscan	carrier i::scan (45°)
F-130-iscan	carrier i::scan (90°)
F-446-brush-iscan	i::scan brush (spare part)
F-46-iscan	flow cell for i::scan
F-46-four-iscan	i::scan flow cell for up to 3 additional s::can probes
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	power supply	10 ... 18 VDC
resolution	turbidity: 0.001 NTU/FTU color: 0.01 Hazen UV254: 0.015 Abs/m TOC: 0.01 mg/l	power consumption (typical)	60 mA @ 12V
accuracy	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)	power consumption (max.)	130 mA @ 12V
automatic compensation instrument	dual-beam and 180° path	interface connection to s::can terminals	RS485, MODBUS
precalibrated ex-works	all parameters	cable length	7.5 m fixed cable (-075) or plug connection (-000)
reference standard	distilled water	housing material	PEEK, POM-C
onboard memory	512 MB	weight (min.)	approx. 330 g
integrated temperature sensor	-20 ... 70 °C	dimensions (diameter x length)	38.5 x 325 mm
resolution temperature sensor	0.06 °C	operating temperature	0 ... 45 °C
integration via	con::cube con::lyte 1 con::lyte 2 con::lyte 4 con::nect	storage temperature	-20 ... 60 °C
		operating pressure	0 ... 6 bar
		installation / mounting	submersed or in a flow cell
		flow velocity	3 m/s (max.)
		automatic cleaning	media: compressed air permissible pressure: 4 ... 6 bar cleaning interval: depending on application
		cleaning pressure	6 bar
		conformity - EMC	EN 61326-1 EN 61326-2-3
		protection class (-000)	IP67
		protection class (-075)	IP68

surface water						
		typical concentration ranges for this application				
		turbidity [NTU/FTU]	TOC [mg/l]	UV254 [Abs/m]	color hazen-f [Hazen]	part number
i::scan_NTU/FTU	min.	0				Y01-1-r-000 / -075
	max.	800				
i::scan_NTU/FTU+Color	min.	0			0	Y02-1-r-000 / -075
	max.	800			70	
i::scan_NTU/FTU+TOC_eq	min.	0	0			Y05-3-r-000 / -075
	max.	800	25			
i::scan_NTU/FTU+TOC_eq+Color	min.	0	0		0	Y06-3-r-000 / -075
	max.	800	25		70	
i::scan_NTU/FTU+UV254	min.	0		0		Y03-2-r-000 / -075
	max.	800		60		
i::scan_NTU/FTU+UV254+Color	min.	0		0	0	Y04-2-r-000 / -075
	max.	800		60	70	

drinking water						
		typical concentration ranges for this application				
		turbidity [NTU/FTU]	TOC [mg/l]	UV254 [Abs/m]	color hazen-f [Hazen]	part number
i::scan_NTU/FTU	min.	0				Y01-1-d-000 / -075
	max.	800				
i::scan_NTU/FTU+Color	min.	0			0	Y02-1-d-000 / -075
	max.	800			70	
i::scan_NTU/FTU+TOC_eq	min.	0	0			Y05-3-d-000 / -075
	max.	800	25			
i::scan_NTU/FTU+TOC_eq+Color	min.	0	0		0	Y06-3-d-000 / -075
	max.	800	25		70	
i::scan_NTU/FTU+UV254	min.	0		0		Y03-2-d-000 / -075
	max.	800		60		
i::scan_NTU/FTU+UV254+Color	min.	0		0	0	Y04-2-d-000 / -075
	max.	800		60	70	