

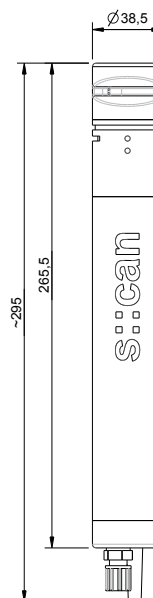
i::scan

i::scan monitors depending on the application an individual selection of: TSS, COD, COD f, UV254, UV254 f, color, UVT10, UVT10 f and temperature

- s::can plug & measure
- 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
D-319-xxx	con::lyte
F-110-iscan	carrier i::scan, for easy horizontal attachment
F-120-iscan	carrier i::scan, for easy vertical attachment
F-48-iscan	flow cell for i::scan (waste water), PVC
F-48-process	process connection 1", PVC
S-11-xx-moni	moni::tool Software



technical specification

measuring principle	spectrometry	interface to s::can terminals	RS485, MODBUS
resolution	COD: 0.035 mg/l color: 0.07 Hazen UV254: 0.105 Abs/m	cable length	7.5 m fixed cable (-075)
accuracy (standard solution)	COD: 5 mg/l or +/- 2.5 %* color: 7 Hazen or +/- 2.5 %* UV254: 1 Abs/m or +/- 2.5 %* (*whichever is greater)	housing material	PEEK, POM-C
precalibrated ex-works	all parameters	weight (min.)	approx. 330 g
reference standard	distilled water	dimensions (Ø x l)	38.5 x 295 mm
onboard memory	512 MB	operating temperature	0 ... 45 °C
integrated temperature sensor	-20 ... 70 °C	storage temperature	-20 ... 60 °C
resolution temperature sensor	0.06 °C	operating pressure	0 ... 6 bar
integration via	con::cube con::lyte con::nect	installation / mounting	submersed
power supply	10 ... 18 VDC	flow velocity	3 m/s (max.)
power consumption (typical)	20 mA @ 12V	automatic cleaning	media: compressed air or autobrush cleaning interval: depending on application permissible pressure: 3 ... 6 bar
power consumption (max.)	200 mA @ 12V	cleaning pressure	6 bar
		conformity - EMC	EN 61326-1 EN 61326-2-3
		protection class (-075)	IP68

WWTP influent

		concentration ranges and sensor/probe type for this application							
		TSS [mg/l]	COD [mg/l]	COD f [mg/l]	UV254 [Abs/m]	UV254 f [Abs/m]	color (app) [Hazen]	color (tru) [Hazen]	part number
i::scan_TSS+COD_eq	min.	0	0	0					Y11-3-i-075
	max.	1000	1500	900					
i::scan_TSS+COD_eq+Color	min.	0	0	0			0	0	Y12-3-i-075
	max.	1000	1500	900			3500	2200	
i::scan_TSS+Color	min.	0					0	0	Y08-1-i-075
	max.	1000					3500	2200	
i::scan_TSS+UV254	min.	0			0	0			Y09-2-i-075
	max.	1000			500	400			
i::scan_TSS+UV254+Color	min.	0			0	0	0	0	Y10-2-i-075
	max.	1000			500	400	3500	2200	

WWTP effluent

		concentration ranges and sensor/probe type for this application								
		TSS [mg/l]	COD [mg/l]	COD f [mg/l]	UV254 [Abs/m]	UV254 f [Abs/m]	UVT10 [%]	color (app) [Hazen]	color (tru) [Hazen]	part number
i::scan_TSS+COD_eq	min.	0	0	0						Y11-3-e-075
	max.	500	500	300						
i::scan_TSS+COD_eq+Color	min.	0	0	0				0	0	Y12-3-e-075
	max.	500	500	300				3500	2200	
i::scan_TSS+Color	min.	0						0	0	Y08-1-e-075
	max.	500						3500	2200	
i::scan_TSS+UV254	min.	0			0	0	0			Y09-2-e-075
	max.	500			500	400	100			
i::scan_TSS+UV254+Color	min.	0			0	0	0	0	0	Y10-2-e-075
	max.	500			500	400	100	3500	2200	