

i::scan_color

i::scan_color monitors turbidity and color

The i::scan will revolutionize water quality monitoring - from very cost sensitive applications down to highly resolved "Smart Water Grids", the smallest unmanned plants, or even in single building protection: The new i::scan combines the high performance of a multi wavelength spectrophotometer with lower costs than of simple photometers!

- color absorption on the APHA-Hazen & Pt/Co scale, combined with turbidity according to EPA 180.1 and ISO 7027
- s::can plug & measure
- new light emitting technology
- combined 180° absorption and 90° scattering
- no consumables
- no moving parts
- low power consumption (less than 1 W typical)
- dual-beam compensated optics
- optional automatic cleaning (compressed air in situ 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 (in situ) 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
F-46-four	flow cell for i::scan and three s::can physical probes

technical specification

measuring principle	combined 180° absorption and 90° scattering	cable length	7.5 m fixed cable (-075) or plug connection (-000)
resolution turbidity	0.001 NTU/FTU	housing material	PEEK, POM-C
resolution color	0.01 mg/l Pt/Co	weight (min.)	approx. 440 g
automatic compensation instrument	dual-beam and 180° path	dimensions (diameter x length)	38.5 x 345 mm
precalibrated ex-works	all parameters	operating temperature	0 ... 45 °C
accuracy turbidity	submersed: 0.05 NTU/FTU or 3 % in flow cell: 0.02 NTU/FTU or 3 %	storage temperature	-20 ... 60 °C
accuracy color	1 mg/l Pt/Co or 3 %	operating pressure	-0.2 ... 6 bar
reference standard	distilled water	installation / mounting	submersed or in a flow cell can be mounted directly in a mains pipe / pressure pipe
onboard memory	8 MB	flowrate	3 m/s (max.)
integration via	con::cube con::lyte 1 con::lyte 2 con::lyte 4 con::nect	automatic cleaning	media: compressed air permissible pressure: 4 ... 6 bar cleaning interval: depending on application
power supply	10 V - 18 V	cleaning pressure	6 bar
power consumption (typical)	0.72 W	conformity - EMC	EN 61326
power consumption (max.)	1.56 W	conformity - safety	EN 61010
interface connection to s::can terminals	sys plug, IP68, RS485, 12 VDC	protection class (-000)	IP67
		protection class (-075)	IP68

surface water

		typical concentration ranges for this application		part number
		turbidity [NTU/FTU]	color [mg/l Pt/Co]	
i::scan_color	min.	0	0	Y2-2-035-p-000 / -075
	max.	800	50	

drinking water

		typical concentration ranges for this application		part number
		turbidity [NTU/FTU]	color [mg/l Pt/Co]	
i::scan_color	min.	0	0	Y2-2-035-p-000 / -075
	max.	800	50	