

pipe::scan for drinking water

The pipe::scan is a sensor system for monitoring drinking water quality in pipes under pressure. It measures up to 10 parameters in one device: TOC, DOC, UV254, Turbidity, Color, UVT, Chlorine, pH/Redox, Conductivity, Temperature and Pressure. The water quality data can be sent to any central database via almost any protocol. Multiple pipe::scans are the ideal solution to monitor drinking water at any point in the network.



Certificate of Sanitary
Conformity



Certified to
NSF/ANSI/CAN 61
& 372



technical specification

measurement interval	1 min (minimal)
precalibrated ex-works	all parameters
integration via	con::line
power supply	via con::line or con::cube
power consumption (typical)	14 W
power consumption (max.)	35 W
wetted materials	POM stainless steel fine brass EN12165 and EN12164 EPDM
dimensions (width x height x depth)	220 x 475 x 340 mm
weight (min.)	approx. 8 kg
operating temperature	0 ... 40 °C
storage humidity	0 ... 95 %
operating pressure	1 ... 10 bar

installation / mounting	on 2" Hawle pipe saddle (to be ordered separately)
other operating limits	pipeline must be vented installation must be on top of pipe no direct sunlight
pH range	4 ... 12
pH range free chlorine	4 ... 9
automatic cleaning	autobrush (for i::scan)
storage temperature	0 ... 45 °C
conformity - EMC	EN 61326-1
conformity - safety	EN 61010-1 RoHS
drinking water safety certificate	ACS (Attestation de conformité Sanitaire) NSF/ANSI/CAN 61 & 372
protection class (-000)	IP67

i::scan

		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 FTU/NTU	min.	0								Y01-1-D-000-DW
	max.	800								
i::scan FTU/NTU+Color	min.	0	0	0						Y02-1-D-000-DW
	max.	800	500	500						
i::scan FTU/NTU+UV254	min.	0					0	0	25	Y03-2-D-000-DW
	max.	800					70	70	100	
i::scan FTU/ NTU+UV254+Color	min.	0	0	0			0	0		Y04-2-D-000-DW
	max.	800	500	500			70	70		
i::scan FTU/NTU+TOC_ eq+UV254	min.	0			0	0	0			Y05-3-D-000-DW
	max.	800			25	25	70			
i::scan FTU/NTU+TOC_ eq+UV254+Color	min.	0	0	0	0	0	0			Y06-3-D-000-DW
	max.	800	500	500	25	25	70			

chlri::lyser (stainless steel version)

		parameter			part number
		free chlorine [mg/l]	total chlorine [mg/l]	temperature [°C]	
chlri::lyser (FCI)	min.	0		0	E-520-1-S-000
	max.	2		40	
chlri::lyser (TCI)	min.		0	0	E-525-1-S-000
	max.		2	40	

ph::lyser

		parameter		part number
		pH [pH]	temperature [°C]	
pH::lyser (pH)	min.	4	0	E-514-2-000-DW
	max.	10	40	

redo::lyser

		parameter		part number
		redox [mV]	temperature [°C]	
redo::lyser (redox)	min.	-2000	0	E-513-2-000-DW
	max.	2000	40	

condu::lyser

		parameter		part number
		conductivity [µS/cm]	temperature [°C]	
condu::lyser (conductivity)	min.	0	0	E-511-2-000-DW
	max.	500000	40	

pipe::scan versions	
part number	article name
P-450-PS-SET-024-DW	pipe::scan base unit: flow cell incl. adapter plate, nano pump, insertion nozzle, vent valve, enclosure, pipe::scan cable hub incl. 10 m connection cable to con::cube, pressure sensor con::cube V3 24 V incl. D-303-LX, S-08-MONI, S-11-BASIC-PLC, D-315-IN-MA, with drinking water certificate
P-450-PS-SET-230-DW	pipe::scan base unit: flow cell incl. adapter plate, nano pump, insertion nozzle, vent valve, enclosure, pipe::scan cable hub incl. 10 m connection cable to con::cube, pressure sensor con::cube V3 230 V incl. D-303-LX, S-08-MONI, S-11-BASIC-PLC, D-315-IN-MA, with drinking water certificate
P-450-PS-SET-012-DW	pipe::scan base unit: FlowCell incl. adapter plate, nano pump, insertion nozzle, vent valve, enclosure, pipe::scan cable hub incl. 10 m connection cable to con::line, pressure sensor, con::line 12 V incl. S-500-08-IO, with drinking water certificate
Y01-1-D-000-DW	FTU/NTU with i::scan incl. Autobrush for pipe::scan
Y02-1-D-000-DW	FTU/NTU + COLOR with i::scan incl. Autobrush for pipe::scan
Y04-2-D-000-DW	FTU/NTU + COLOR + UV245 with i::scan incl. Autobrush for pipe::scan
Y06-3-D-000-DW	FTU/NTU + COLOR + UV254 + TOC with i::scan incl. Autobrush for pipe::scan
Y03-2-D-000-DW	FTU/NTU + UV254 with i::scan incl. Autobrush for pipe::scan
Y05-3-D-000-DW	FTU/NTU + UV245 + TOC with i::scan incl. Autobrush for pipe::scan
E-520-1-S-000	Free Chlorine sensor, 0-2 mg/l, pressure resistant
E-525-1-S-000	Total Chlorine sensor, 0-2 mg/l, pressure resistant
E-514-2-000-DW	pH sensor, pressure resistant
E-513-2-000-DW	ORP sensor, pressure resistant
E-511-2-000-DW	Conductivity sensor, pressure resistant

recommended accessories	
part number	article name
D-500-012	con::line
D-330-xxx	con::cube V3
F-160-SP-SET-DKxxx	Hawle shut off pipe saddle DK75 - DK315, incl. saddle blade (for PE and PVC pipes)
F-160-SP-SET-DNxxx	Hawle shut off pipe saddle DN80 - DK600, incl. saddle blade (for ductile iron pipes)
S-500-08-IO	Io::Tool - s::can monitoring station software for 8 parameters
S-11-xx-moni	moni::tool Software
S-14-vali	vali::tool - s::can data validation software
S-15-ana	ana::tool - s::can event detection software



