

Technical Specifications

Measurement technology	light source	5 LED
	detector	High-end miniature spectrometer, 256 channels 360 to 750 nm, 2.2 nm/pixel
Measurement principle		Attenuation
Optical path		10 mm, 50 mm, 100 mm, 150 mm, 250 mm
Parameter		SAC ₄₃₆ Pt-Co color scale (APHA/Hazen) (390 nm, 455 nm) Colouring based on DIN EN ISO 7887-C (410 nm, 436 nm, 525 nm, 620 nm) Cr-Co color scale (380 nm, 413 nm)
Measuring range		0.01...2.5 AU (absorption units)
Measurement accuracy		< 0.2 %
Turbidity compensation		Yes
Data logger		~ 2 GB
T100 response time		2 min
Measurement interval		≥ 1 min
Housing material		Stainless steel (1.4571/1.4404) or titanium (3.7035)
Dimensions (L x Ø)		495 mm x 48 mm (with 50 mm path)
Weight	stainless steel	~ 2.4 kg (with 50 mm path)
	titanium	~ 1.3 kg (with 50 mm path)
Interface	digital	Ethernet (TCP/IP)
		RS-232 or RS-485 (Modbus RTU)
Power consumption		≤ 3 W
Power supply		12...24 VDC (± 10 %)
Maintenance effort		≤ 0.5 h/month (typical)
Calibration/maintenance interval		24 months
System compatibility		Modbus RTU
Guarantee		1 year (EU: 2 years)
INSTALLATION		
Max. pressure	with SubConn	30 bar
	with fixed cable	3 bar
	in FlowCell	1 bar, 2...4 L/min
Protection type		IP68
Sample temperature		+2...+40 °C
Ambient temperature		+2...+40 °C
Storage temperature		-20...+80 °C
Inflow velocity		0.1...10 m/s