

LISA color

5XSXXXXX0



Colorimetry – LISA enables reliable low-cost colour measurements. The LISA color uses two different LEDs for long-term stable measurement of the SAC or color at different wavelengths. The second channel is used for turbidity/background correction. The cutting-edge device platform, used in all other TriOS photometers, enables optical path lengths of 50, 100, 150, and 250 mm, so that almost any application can be easily implemented.

With the optional titanium housing, the LISA color can also be used for applications in aggressive media (e.g. high chloride concentrations).

Equipped with our innovative G2 interface with a web browser configuration, internal data logger, flexible protocols and data outputs, the LISA color possesses equipment attributes that are significantly greater than the devices currently available on the market

The unified platform of all TriOS photometers also facilitates a standardized spare parts and consumables system, which means the broad range of our device accessories can be implemented. The cutting-edge G2 interface also enables quick integration into third-party systems.

NEW! The TriOS pressure cleaning is now available for the path lengths 100 mm, 150 mm and 250 mm!

Benefits

- Low investment
- Low maintenance (nano coating, air blast cleaning)
- Simple integration into third-party systems
- Robust housing

Applications

- Environmental monitoring
- Drinking water monitoring
- Industrial applications



Technical Specifications

Measurement technology	Light source	2 LEDs	
	Detector	Photodiode	
Measurement principle	Attenuation, transmission		
Optical path	50 mm, 100 mm, 150 mm, 250 mm		
Parameters	SAC ₄₃₆ , SAC ₅₂₅ , SAC ₆₂₀		
	Color (based on DIN EN ISO 7887 (410 nm, 436nm, 525 nm, 620 nm))		
	Pt-Co color number (APHA/Hazen) (390 nm or 455 nm)		
	Cr-Co color number (380 nm or 413 nm)		
Measurement range	see parameter list (chapter 7.2)		
Measurement accuracy	0.5 %		
Turbidity compensation	yes, 740 nm		
Data logger	~ 2 MB		
Reaction time T100	4 s		
Measurement interval	≥ 2 s		
Housing material	Stainless steel (1.4571/1.4404) or titanium (3.7035)		
Dimensions (L x Ø)	340 mm x 48 mm (for 50-mm path)		~ 13.4" x 1.9" (for 50-mm path)
Weight	stainless steel	~ 2.4 kg (for 50-mm path)	~ 5.3 lbs (for 50-mm path)
	titanium	~ 1.3 kg (for 50-mm path)	~ 2.9 lbs (for 50-mm path)
Interface	digital	Ethernet (TCP/IP)	
		RS232 or RS485 (Modbus RTU)	
	analog	Ethernet (TCP/IP)	
		4...20 mA, max. load: 500 Ohm	
Power consumption	≤ 1 W		
Power supply	12...24 VDC (± 10 %)		
Required supervision	typically ≤ 0,5 hours per month		
Calibration/maintenance interval	24 months		
System compatibility	Modbus RTU		
	Analog out (4...20 mA)		
Warranty	1 year (EU & US: 2 years)		
Max. pressure	with Subconn	30 bars	~ 435 psig
	with fixed cable	3 bars	~ 43.5 psig
	in flow cell	1 bar, 2...4 L/min	~ 14.5 psig, 0.5 to 1 gpm
Protection type	IP68	NEMA 6P	
Sample temperature	+2...+40 °C	~ +36 °F to +104 °F	
Ambient temperature	+2...+40 °C	~ +36 °F to +104 °F	
Storage temperature	-20...+80 °C	~ -4 °F to +176 °F	
Inflow velocity	0.1...10 m/s	~ 0.33 fps to 33 fps	

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Measurement range

Parameters	Unit	Measurement range			
		50 mm	100 mm	150 mm	250 mm
SAC 436 nm	1/m	0.1...30	0.05...15	0.03...10	0.02...6
SAC 525 nm	1/m	0.1...30	0.05...15	0.03...10	0.02...6
SAC 620 nm	1/m	0.1...30	0.05...15	0.03...10	0.02...6
True color 410 nm	mg/L Pt	2...560	1...280	0.6...185	0.4...110
Hazen 390 nm	mg/L Pt	0.8...220	0.4...110	0.3...75	0.2...45
Hazen 455 nm	mg/L Pt	4...1100	2...550	1.5...360	0.8...220
Cr-Co 380 nm	° (degree of color)	1...300	0.5...150	0.3...100	0.2...60
Cr-Co 413 nm	° (degree of color)	4...1100	2...550	1.5...360	0.8...220

