

LISA UV

14SXXXXX0



LISA – The innovative SAC₂₅₄ sensor by TriOS

Long-lasting and energy-efficient UV-LED technology and a robust design are the outstanding features of LISA. Like all TriOS sensors LISA uses the unique nano-coated windows in conjunction with compressed air flushing to achieve long operating times without cleaning.

The innovative TriOS G2 interface allows quick and easy integration of the sensor into existing process control systems or external data logger. In addition to the integrated network interface, LISA is available with digital or analog output. The

sensor is configured with ease through any standard web browser on a PC, tablet or Smartphone.

The optical path length can be adapted to the application at any time by various adapters. An automatic turbidity compensation is carried out via a second measuring channel.

LISA can be configured through application-specific correlation for direct output of BODeq, CODEq, TOCeq.

LISA – Cutting-edge measurement technology at low investment and operating costs.

Benefits

- Without sampling and preparation of test samples
- Real-time sensor
- Without reagents
- Optical window with nano coating
- LED technology

Applications

- Sewage treatment plants
- Environmental monitoring
- Drinking water
- Monitoring of UV-disinfection systems

Path length	Parameter	Measuring range	Detection limit
1 mm	SAC254nm	0-1500/m	4 /m
	CODEq	0-2200 mg/L	8 mg/L
	BODeq	0-700 mg/L	2.5 mg/L
	TOCeq	0-880 mg/L	3 mg/L
10 mm	SAC254nm	0-150 /m	0.4 /m
	CODEq	0-220 mg/L	0.8 mg/L
	BODeq	0-70 mg/L	0.25 mg/L
	TOCeq	0-90 mg/L	0.3 mg/L



Technical Specifications LISA UV

Measurement technology	light source	2 LED (254 nm, 530 nm)
	detector	Photo diode + filter
Measurement principle		Attenuation, transmission
Optical path		1 mm, 2 mm, 5 mm, 10 mm, 50 mm
Parameter		SAC _{254'} , CODeq, BODeq, TOCeq
Measuring range		See parameter list
Measurement accuracy		0.2 %
Turbidity compensation		at 530 nm
Data logger		~ 2 MB
T100 response time		4 s
Measurement interval		≥ 2 s
Housing material		Stainless steel (1.4571/1.4404) or titanium (3.7035)
Dimensions (L x Ø)		300 mm x 48 mm (with 10 mm path)
Weight	stainless steel	~ 1.6 kg (with 10 mm path)
	titanium	n/a
Interface	digital	Ethernet (TCP/IP)
		RS-232 or RS-485 (Modbus RTU, TriOS)
	analog	Ethernet (TCP/IP)
		4...20 mA
Power consumption		≤ 1 W
Power supply		12-24 VDC (± 10 %)
Maintenance effort		≤ 0.5 h/month (typical)
Calibration/maintenance interval		24 months
System compatibility		Modbus RTU or: Analog Out (4...20 mA)
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