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ACCESSORIES

S480 UV CHL DATASHEET

UV SENSOR



MAIN FEATURES

The S480 UV CHL is a miniaturized, submersible fluorimeter for the selective and highly precise measurement of CDOM (colored dissolved organic matter, yellow substances), chlorophyll a, phycocyanin in cyanobacteria, rhodamine or fluorescein. The long-term stability of the measurements is ensured by the combination of low power consumption and innovative anti-fouling coating of the optical window.

It can be used in various applications for monitoring sea and river water as well as in drinking and waste water treatment systems. The high-performance LED technology used for fluorescence excitation compensates for aging effects and temperature influences.

- High sensitivity
- Electronic light compensation
- Compact size
- Nano-coating

APPLICATIONS

- Surface water, Bathing lakes
- Drinking water production and treatment
- Raw water treatment
- Environmental monitoring

CHEMITEC S.R.L.

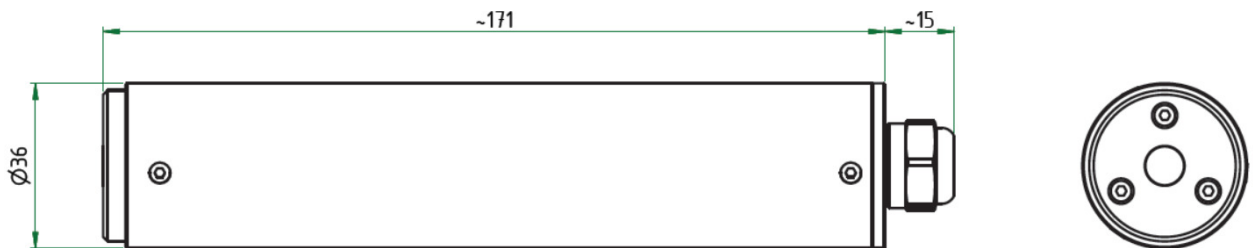
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S480 UV CHL DATASHEET

TECHNICAL DATA

Housing material	Stainless steel (1.4571/1.4404) or titanium (3.7035)
Measurement technology	LED Detector: Photo diode
Measurement principle	Fluorescence
Parameters/ Measuring ranges	CDOM with 0...200 µg/L or chlorophyll a with 0...200 µg/L or 0...500 µg/L or phycocyanin with 0...200 µg/L or 0...500 µg/L or rhodamine with 0...200 µg/L or fluorescein with 0...200 µg/L
Accuracy	± 5 %
Turbidity compensation	no
Reaction time T100	6 s
Power consumption	≤ < 1 W
Power supply	12...24 VDC (± 10 %)
Interface	RS 485
Required supervision	≤ 0.5 h/month (typical)
Calibration/maintenance interval	24 months
Pressure/flow	3 Bar max – In flow cell 1 bar, 2...4 L/min
Protection type	IP68
Sample temperature	+2...+40 °C
Ambient temperature	-5...+55 °C
Storage temperature	-20...+80 °C
Inflow velocity	0,1...10 m/s

DIMENSIONS



ORDER CODES

9740950057	S480 CHL Chlorophyll Sensor RS485 Modbus RTU 10m Cable
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