



SFCI - Free chlorine

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SEPIA immersion sensors provide precise, modular and digital water analysis in any situation - in the laboratory, in the field, mobile and directly in the process of waterworks or sewage treatment plants. They offer maximum flexibility for water management, wastewater treatment, environmental laboratories, industrial processes and aquaculture and combine all measurement tasks in a single, modular, expandable system.

The chlorine sensor SFCI from the **SEPIA series** is an electrochemical sensor for measuring the chlorine concentration in water. This sensor detects free chlorine from inorganic chlorine products (chlorine gas, hypochlorite, etc.). The measuring method has a reduced pH dependency, so that pH value fluctuations have only a minor influence on the measuring signal.

The SFCI chlorine sensor is intended for use in the new TW eCHEM module of the TW Master Series.

Advantages

- Digital, modern and ergonomic design
- High accuracy and reliability
- Cost-efficient due to modular design
- USB-C and Modbus for seamless integration

Applications for

- Water suppliers
- Drinking water monitoring
- Sewage treatment plants
- Industrial applications
- Aquaculture

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Technical specifications

Measurement technology	Membrane-covered, amperometric potentiostatic 3-electrode system	
Measurement principle	Amperometry	
Parameters	Free chlorine with reduced pH dependence	
Measurement range	0...20 mg/L	
Response time (T90)	Approx. 2 min	
Temperature compensation	Yes	
Cross sensitivities	Combined chlorine, chlorine dioxide, ozone, free and combined bromine	
Interface	Digital, SEPIA	
Power supply	SEPIA	
Power consumption	< 150 mW	
Connection	3.5 mm jack plug, 4-pin (TRRS)	
Housing material	PET, stainless steel counter electrode, hydrophilic membrane	
Dimensions (Lx Ø)	~ 58 mm x 24 mm	~ 2.3 " x 0.95"
Volume/filling volume	tbd	
Weight	tbd	
Ambient temperature	+2...+50 °C	~ +36 to +122 °F
Sample temperature	+2...+50 °C	~ +36 to +122 °F
Inflow velocity	0,1...3 m/s	~ 0.3 to 10 fps
Degree of protection	IP68	
System compatibility	SEPIA compatible	
Warranty	1 year (EU&US: 2 years) on electronics; wearing parts are excluded from the warranty	