



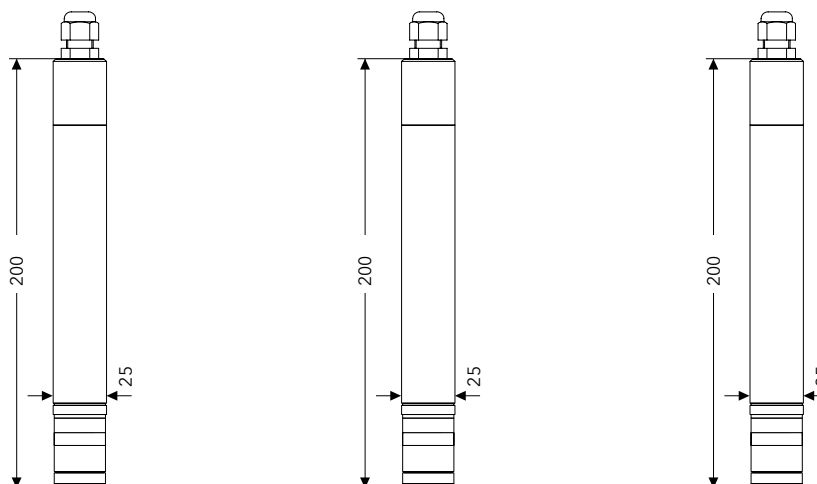
Analog chlorine sensors



For free and total chlorine

The electrochemical WTW chlorine sensors can be applied for measurements in drinking water or swimming pools. Connectable via MIQ/IDS module to the IQ SENSOR NET.

We would like to inform you about the application range on our website



Model	FCML 412-M12-2	FCML 412-M12-20	TCML 412-M12-2
Measuring principle	Amperometric		
Measured value	Free chlorine		Total chlorine
Measuring range	0.005 ... 2.000 mg/l Cl ₂	0.05 ... 20.00 mg/l Cl ₂	0.005 ... 2.000 mg/l Cl ₂
Accuracy	< 1 %	< 1 % at 4 mg/l, > 3 % at 16 mg/l	< 2 %
Response time	t ₉₀ approx. 120 s		
Minimum flow rate	Recommended minimum flow rate in flow cell D 19: 15 l/h, or alternatively in flow cell D-CL: > 30 l/h		
Temperature measurement	0 ... 45 °C		
Temperature compensation	Automatically via integrated sensor		
pH range	4 ... 9		4 ... 12
Polarization time	Approx. 1 hour after new installation or change of electrolyte		
Calibration method	1-point-calibration (according to DPD method as reference)		
Pressure resistance	3 bar		
Electrical connection	M12 plug*		
Certifications	CE, UKCA		
Mechanical	Shaft: PVC Membrane cap: PVC Working electrode: Gold Reference electrode: Ag/AgCl Cable connection: Polyamid Protection rate: IP64		
Weight	Approx. 0.5 kg		
Warranty	½ year with intended use		

* Sensor with M12 plug for connection to the IQ SENSOR NET, please order adapter ADA CI/IDS separately

Model	Description	Order No.
FCML 412-M12-2	pH value independent chlorine sensor based on the electrochemical principle, suitable for online measurement of free chlorine in drinking water and swimming pool water. Measuring range: 0-2 mg/l, pH range 4-9 (please order adapter to connect with IQ SENSOR NET module MIQ/IDS separately)	201189
FCML 412-M12-20	Like FDML 412-M12-2, but with measuring range: 0-20 mg/l (please order adapter to connect with IQ SENSOR NET module MIQ/IDS separately)	201194
TCML 412 M12-2	pH value independent chlorine sensor based on the electrochemical principle, suitable for online measurement of total chlorine in drinking water and swimming pool water. Measuring range: 0-2 mg/l, pH range 4-12 (please order adapter to connect with IQ SENSOR NET module MIQ/IDS separately)	201197

