



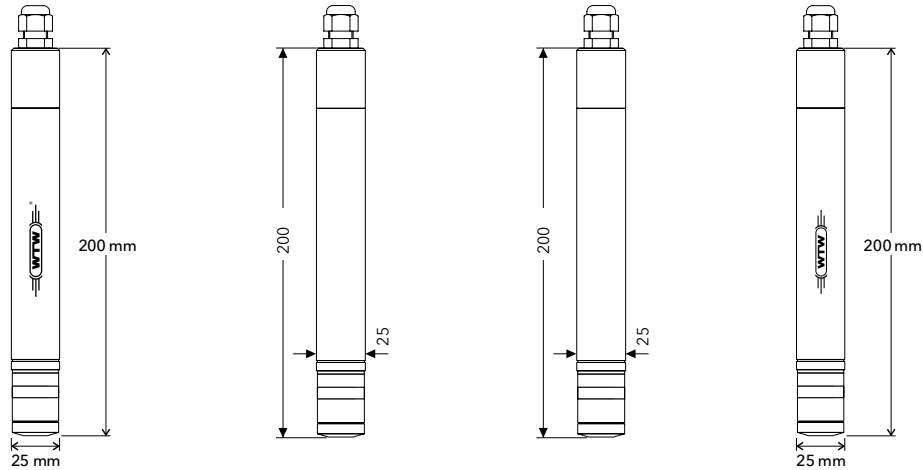
Analog chlorine sensors



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 or directly to the controller CI 298.

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



Model	FCML 412 N	FCML 412-M12-2	FCML 412-M12-20	TCML N
Measuring principle	Amperometric			Total chlorine
Measured value	Free chlorine			Total chlorine
Measuring range	0.01 ... 2.00 mg/l Cl ₂	0.005 ... 2.000 mg/l Cl ₂	0.05 ... 20.00 mg/l Cl ₂	0.01 ... 2.00 mg/l Cl 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	2-wire-connection*	M12 plug**	M12 plug**	2-wire-connection*
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	2 years on defects in quality according to § 10 terms of conditions			

* for direct connection to the controller CL 298

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

Model	Description	Order No.
FCML 412 N	Chlorine electrode according to electrochemical principle, suitable for measurements of free chlorine in drinking water and swimming pools. Measuring range: 0-2 mg/l, pH range 4-9, independent from pH value. Please order cable separately.	201187
FCML 412-M12-2	Chlorine electrode according to electrochemical principle, measuring range: 0-2 mg/l, pH range 4-9, independent from pH value (please order adapter to connect with IQ SENSOR NET module MIQ/IDS separately)	201189
FCML 412-M12-20	Like FCML 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 N	Chlorine electrode according to electrochemical principle, suitable for measurements of total chlorine in drinking water and swimming pools. Measuring range: 0-2 mg/l. Please order cable separately.	201192



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