

# Sensor for free chlorine with stabilizers CC1



- For swimming pools
- Low incidence of pH changes
- Surfactants: partial tolerance
- Temperature: 45 °C max.
- Pressure: 0.5 bar max.

## APPLICATIONS

treatment of water for swimming pool, thermal water... (clear water, seawater)

## TECHNICAL FEATURES

Measured parameter	Free chlorine
Chlorination additives	Inorganic compounds, such as NaOCl - Ca(OCl) <sub>2</sub> - gaseous chlorine, chlorine by electrolysis, plus stabilizer isocyanuric acid up to 500 mg/l . Surfactants: partial tolerance
Measuring system	Closed cell with 3 electrodes and electrolyte
Supply voltage	12 ... 30 V DC, (Load = 500 to 900Ω)
Output signal	4 ... 20mA, screw connectors (2 x 1 mm <sup>2</sup> ) No galvanic insulation
Operating temperature	From 1 to 45 °C Automatic temperature compensation
Operating pressure	0.5 bar max. (No vibrations, no pulsating flow)
Flow rate	About 30 l/h
pH operating range	Between 4 and 12 pH (low incidence of pH changes)
Zero adjustment	Not necessary (from factory)
Slope calibration	Only 1 point with BAMOPHAR 194 according to directive DPD-1
Interferences	Incidence of ClO <sub>2</sub> and O <sub>3</sub> on measuring signal
Materials	PVC-U, PEEK and AISI 316 Ti
Dimensions	O.D. 25mm, length 220mm (4-20mA)

**CE Conformity:** The instrument meets the legal requirements of the current European Directives.

## CODE NUMBERS AND REFERENCES

Code	Reference	Measuring range	Resolution
193 063	CC1.MA2	0.01...2 mg/l	0.01 mg/l
193 064	CC1.MA5	0.01...5 mg/l	
193 065	CC1.MA10	0.01...10 mg/l	
Spare parts			
193 903	M48.2	Sensor end with diaphragm for CC1 sensor	
193 xxx	ECC1.1/GEL	Electrolyte for CC1 (100 ml)	

## Precautions

Flow rate must be constant and a measuring cell with flow controller is necessary (data-sheet 193-95).

In order to install easily a complete system, we propose assemblies designed for specific applications (on request).



Complete measuring system  
(assembly sold separately)

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