

Free chlorine sensor, at constant pH CL4.2



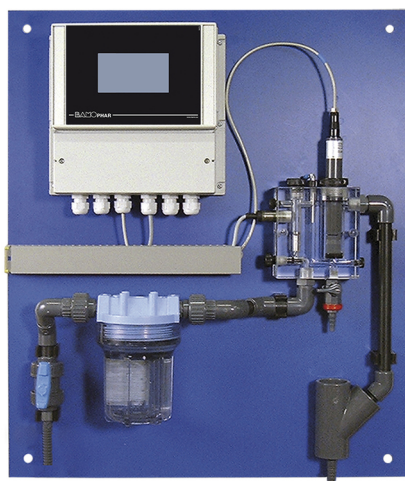
- Water treatment
- pH must be constant
- No tolerance to surfactants
- Temperature 45 °C max.
- Pressure 1 bar max.

APPLICATIONS

Water treatment (for water equivalent to drinkable quality) at a constant pH.

TECHNICAL FEATURES

Measured parameter	Free chlorine
Chlorination additives	Inorganic compounds, such as NaOCl - Ca(OCl) ₂ - gaseous chlorine, chlorine produced by electrolysis Caution: Surfactants not tolerated
Measuring system	Closed cell with 2 electrodes and electrolyte
Supply voltage	12 ... 30 V DC (Load 500 to 900 Ω)
Output signal	4 ... 20mA, 2 screw terminals (2 x 1mm ²) No galvanic insulation
Operating temperature	1 to 45 °C Automatic temperature compensation
Operating pressure	1 bar max. (No vibrations, no pulsating flow)
Flow rate	About 30 l/h
pH operating range	Constant between 6 and 8 pH pH value must be constant
Interferences	Strong incidence of ClO ₂ and O ₃ on measuring signal Chlorine produced by electrolysis with a non-diaphragm cell may cause damages.
Zero adjustment	Not necessary (from factory)
Slope calibration	Only 1 point with BAMOPHAR 194 according to directive DPD-1
Materials	PVC-U
Dimensions	Approx. O.D. 25 mm, length 220 mm (4-20 mA)



Assembly (as an option)

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

CODE NUMBERS AND REFERENCES

Code	Reference	Measuring range	Resolution
193 011	CL4.2.MA0.5	0.005 ... 0.5 mg/l	0.001 mg/l
193 012	CL4.2.MA2	0.005 ... 2 mg/l	0.001 mg/l
193 013	CL4.2.MA5	0.05 ... 5 mg/l	0.01 mg/l
193 014	CL4.2.MA10	0.05 ... 10 mg/l	0.01 mg/l
193 015	CL4.2.MA20	0.05 ... 20 mg/l	0.01 mg/l
193 016	CL4.2.MA100	0.5 ... 100 mg/l	0.1 mg/l
193 010	CL4.2.MA200	0.5 ... 200 mg/l	0.1 mg/l
Spare parts			
193 916	M20.2	Sensor end with diaphragm for CL4 sensor	
193 951	ECL1	Electrolyte for CL4 sensor (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).

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