

Total chlorine sensor CP4



- Water treatment, drinkable quality and sea-water
- Surfactants: partial tolerance
- Low incidence of pH changes
- Operating temperature 45 °C max.
- Operating pressure 3 bar max.

APPLICATIONS

Water treatment (drinkable quality water and sea water)

TECHNICAL FEATURES

Measuring parameters	Total chlorine (Free + combined chlorine)
Chlorinating agents	Inorganic compounds additives: NaOCl; Ca(OCl) ₂ ; gaseous chlorine; chlorine produced by electrolysis Surfactants: partial tolerance
Measuring system	Closed cell with 3 electrodes and electrolyte
Output signal	4 ... 20mA, 2-wire, screw connectors (2 x 1mm ²) No galvanic insulation
Operating temperature	1 ... 45 °C Automatic temperature compensation
Operating pressure	0.5 bar max. (without securing collar) 3 bar (with securing collar) No vibrations, no pulsating flow
Flow rate	About 30 l/h
Supply voltage	12 ... 30 V DC; Load: 500 to 900 Ω
pH operating range	pH 4 to pH 12 (low incidence of pH)
Conductivity	From 10 µS/cm up to 50 mS/cm (sea-water)
Interferences	Incidence of ClO ₂ and O ₃ on measuring signal
Zero adjustment	Not necessary (from factory)
Slope calibration	Through 1 point (slope), with BAMOPHAR 194 (DPD 4)
Materials	PVC-U; PEEK, AISI 316 Ti
Dimensions	O.D. 25mm, length 220mm (4-20mA model)

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

CODE NUMBERS AND REFERENCES

Code	Reference	Measuring range	Resolution
193 047	CP4.MA2	0.005 ... 2 mg /l	0.001 mg /l
193 048	CP4.MA5	0.01 ... 5 mg /l	0.01 mg /l
193 049	CP4.M10	0.01 ... 10 mg /l	0.01 mg /l
Replacements			
193 915	M48.4E	Sensor end with diaphragm (not for sea-water)	
193 xxx	M48.4S	Sensor end with diaphragm for sea-water	
193 964	ECP1.4/GEL	Electrolyte for sea-water	

Other versions on request (measuring range, power supply, output signal, connector, etc.)

Precautions

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

For an easy commissioning and operations, we propose assemblies designed for specific applications.



Complete system (Assembly sold separately)

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