

Free chlorine sensor CS4



- Treatments of Fresh water and sea-water
- Surfactants: partial tolerance
- Low incidence of pH changes
- Temperature: 45 °C max.
- Pressure: 3 bar max.

APPLICATIONS

Water treatment (for water equivalent to drinkable quality) and sea water

TECHNICAL FEATURES

| | |
|------------------------|---|
| Measured parameter | Free chlorine |
| Chlorination additives | Inorganic compounds, such as NaOCl - Ca(OCl) ₂ - gaseous chlorine, chlorine by electrolysis Surfactants: partial tolerance |
| Measuring system | Closed cell with 3 electrodes and electrolyte |
| Supply voltage | 12 ... 30 V DC (Load 500 to 900 Ω) |
| Output signal | 4 ... 20 mA, screw connectors (2 x 1 mm ²) No galvanic insulation |
| Operating temperature | 1 to 45 °C Automatic temperature compensation |
| Operating pressure | 3 bar max. (No vibrations, no pulsating flow) |
| Flow rate | About 30 l/h |
| pH operating range | 4 to 9 pH - low incidence of pH changes |
| Conductivity | For sea water up to 50 mS/cm |
| Zero adjustment | Not necessary (from factory) |
| Slope calibration | Only 1 point with BAMOPHAR 194 according to directive DPD-1 |
| Interferences | Incidence of ClO ₂ and O ₃ on measuring signal High level of combined chlorine may have an incidence on measuring signal |
| Materials | PVC-U and AISI 316 Ti |
| Dimensions | O.D. 25 mm, length 220 mm (4-20 mA) |



Complete measuring system
(assembly sold separately)

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

CODE NUMBERS AND REFERENCES

| Code | Reference | Measuring range | Resolution |
|-------------|-----------|--|------------|
| 193 026 | CS4.MA2 | 0.001...2 mg/l | 0.001 mg/l |
| 193 027 | CS4.MA5 | 0.01...5 mg/l | 0.01 mg/l |
| 193 028 | CS4.MA10 | 0.01...10mg/l | 0.01 mg/l |
| 193 029 | CS4.MA20 | 0.01...20 mg/l | 0.01 mg/l |
| 193 030 | CS4.MA200 | 0.5...200 mg/l | 0.1 mg/l |
| Spare parts | | | |
| 193 915 | M48.4E | Diaphragm for CS4 (excepted sea water) | |
| 193 xxx | M48.4S | Diaphragm for CS4 on sea water | |
| 193 952 | ECS2.1 | Electrolyte for CS4 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).

BAMO INTERNATIONAL

22, Rue de la Voie des Bans · Z.I. de la gare · 95100 ARGENTEUIL

Tel +33 (0)1 30 25 83 20 Web www.bamo.eu

Fax +33 (0)1 34 10 16 05 E-mail export@bamo.fr

Free chlorine sensor
CS4

22-01-2018

D-193.07-EN-AB

CL

193-07 /1