

Bromine sensor BR1



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

APPLICATIONS

Water treatment (for water equivalent to drinkable quality)

FEATURES

Measured parameter	Hypobromous acid (HOBr)
Disinfection additives	Hypobromous acid (HOBr); n'- bromochloro-5,5-dimethylhydantoin (BCDMH)
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 x2 (1mm ²)
	No galvanic insulation
Operating temperature	5 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 pH 6.5 and pH 9.5
	Low incidence of pH changes
Zero adjustment	Not necessary (from factory)
Slope calibration	Only 1 point with BAMOPHAR 194 according to directive DPD-1
	- Free bromine: DPD-1
	- BCDMH: DPD-4
Interferences	Incidence of Cl ₂ , ClO ₂ and O ₃ on measuring signal
Materials	PVC, PEEK, AISI 316 Ti (1.4571)
Dimensions	O.D. 25 mm, length 220 mm (4-20 mA)

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

CODE NUMBERS AND REFERENCES

Code	Reference	Measuring range	Resolution
193 261	BR1.MA10	0.05...10mg/l	0.1 mg/l
Spare parts			
193 903	M48.2	Diaphragme for BR1	
193 964	ECP1.4	Electrolyte for BR1	

Other versions on request

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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