Free chlorine and chlorine dioxide sensors **AS2/AS3**



- pH must be constant (for free chlorine)
- Temperature: up to 50 °C or up to 70 °C
- Pressure: up to 8 bar

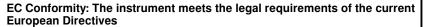


Concentration measurement of free chlorine or chlorine dioxide, hot sanitary water and drinkable water.

Caution: The pH must be constant for free chlorine measurement.

TECHNICAL FEATURES

Measured parameter	AS CL: Free chlorine AS CD: Chlorine dioxide
Disinfection additives	Inorganic compounds, such as NaOCl, Ca(OCl) ₂ , gaseous chlorine, chlorine produced by electrolysis
Chlorine dioxide	Chlorite/ Chlorine; Chlorite/ Acid
Measuring system	Semi-open cell with 3 electrodes and electrolyte
Supply voltage	_12 30 V DC, (Load 500 to 900Ω)
Output signal	4 20 mA, screw connectors x2 (1mm ²)
	No galvanic insulation
Operating temperature	AS2: 1 to 50°C; AS3: 1 to 70°C
	Automatic temperature compensation
Ambient temperature	_From 0 to 55 °C
Operating pressure	_8 bar max.
Cleaning system	_Equipment RV1 (option)
Flow rate	Flow must be constant
	15 l/h min. without RV1 equipment
	_45 to 90 l/h with RV1 equipment
pH operating range	AS CL: pH must be constant +/- 0.25 pH (between 5 and 9 pH)
	AS CD: between pH 1 and pH 12
Zero adjustment	Not necessary (from factory)
Slope calibration	Only 1 point necessary with BAMOPHAR 194: - Chlorine: DPD-1
	- Chlorine dioxide: DPD-1 (without chlorine)
Interferences	AS CL: Ozone, chlorine dioxide and chlorite
	AS CD: Ozone, chlorine, chlorite are registered with
	less than 2%
Materials	_AS2: PVC-U; AS3: PEEK
Dimensions	O.D. 25 mm, length 220 mm (4-20 mA)



Equipment for automatic cleaning of electrodes: RV1 (Option)

- Recommended to optimize the measurement signal
- Direct installation on the sensor tip

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- Cleaning action on small deposits (e.g. slight rust deposit)
- Electrode cleaning each 6 to 12 months (instead of each 4 to 12 weeks without
- Requires the use of DF measuring cells (See data-sheet 193-95)
- Flow-rate: 45 I / h Min.

Increased sensor performance (reduced maintenance) See diagram on page 2





Complete measuring system (assembly sold separately)



Option RV1



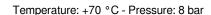
22, Rue de la Voie des Bans · Z.I. de la gare · 95100 ARGENTEUIL Tel +33 (0)1 30 25 83 20 Web www.bamo.eu +33 (0)1 34 10 16 05 E-mail export@bamo.fr

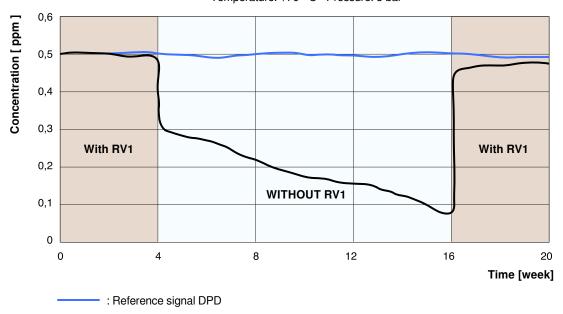
Free chlorine and chlorine dioxide sensors **AS2/AS3**

CL

193-13/1

D-193.13-EN-AB





-----: AS-CL sensors output signals

Caution: The use of RV1 reduces the nominal measuring scale. (See table codes vs. references)

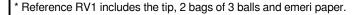
CODE NUMBERS AND REFERENCES

				Measuring sca	ale mg/l	Resolution
Disinfectant	Code	Reference	Temperature max.	Without RV1	With RV1	mg/l
	193 223	AS2-MA1.CL	50 °C	0.0031	0.0030.4	0.001
	193 225	AS2-MA5.CL	50 °C	0.035	0.031.7	0.01
Free chlorine	193 228	AS3-MA1.CL	70 °C	0.0031	0.0030.4	0.001
	193 230	AS3-MA5.CL	70 °C	0.035	0.031.7	0.01
	193 232	AS3-MA10.CL	70 °C	0.0310	0.034	0.01
	193 224	AS2-MA1.CD	50 °C	0.0031	0.0030.5	0.001
Chlorine dioxide 193 226 193 229	193 226	AS2-MA5.CD	50 °C	0.035	0.032.5	0.01
	AS3-MA1.CD	70 °C	0.0031	0.0030.5	0.001	
	193 231	AS3-MA5.CD	70 °C	0.035	0.032.5	0.01

Each sensor is supplied with 50 ml of electrolyte and emeri paper.

Parts - Accessories:

Code	Reference	Description
193 962	EAS1/G	Electrolyte; for AS2 and AS3
193 912	RV1*	RV1 cleaning system





RV1 cleaning system

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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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Free chlorine and chlorine dioxide sensors
AS2/ AS3

03-07-2018

CL

193-13/2