

# Sensors for disinfection monitoring

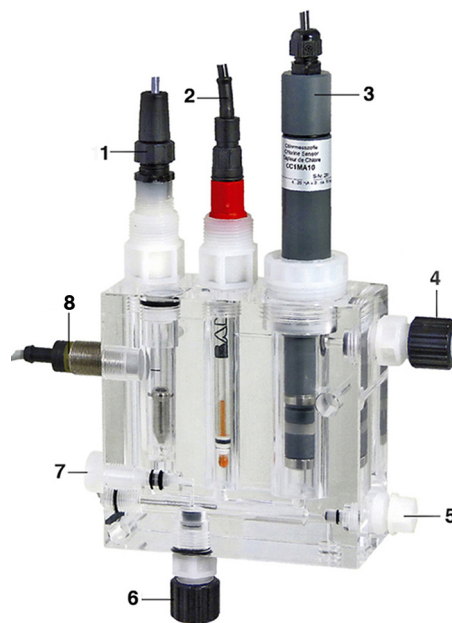
## AMPEROMETRIC SENSORS



- Free chlorine
- Total chlorine
- Chlorine dioxide
- Hydrogen peroxide
- Peracetic acid

- Wide measuring ranges
- Limits up to 70 °C and 8 bar
- Unnecessary zero adjustment
- Reliable measuring signal
- Built-in temperature compensation sensor
- Easy to use and to install
- Long life electrodes
- Adaptability to existing systems
- Dedicated measuring cells
- Low maintenance costs
- One spare part: sensor end (diaphragm)
- BAMOPHAR 194: for display and regulation
- ASSEMBLY: Ready to install

### MEASURING FLOW CELL



1	pH Electrode (or ORP, or Conductivity)
2	pH electrode, temperature compensation sensor, else...
3	Amperometric sensor
4	Outlet to drain
5	Sampling valve
6	Inlet
7	Flow adjustment valve
8	Flow-less controller

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**AMPEROMETRIC SENSORS**

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## FEATURES - APPLICATIONS

Electrodes	pH range	P max.	T max.	Surfactants	Applications	pH incidence
<b>CL4.2 - data sheet 193-03</b> Free chlorine 0.5 ... 200 mg/l	6...8	1 bar	45 °C	Forbidden	Industrial water Drink water Swimming pools	Important*
<b>CP 4 - data sheet 193-08</b> Total chlorine 0.01 ... 10 mg/l	4...12	3 bar	45 °C	Partial acceptance	Drink water Sea-water	Low
<b>CC 1 - data sheet 193-06</b> Free chlorine with isocyanuric acid 0.01 ... 10 mg/l	4...12	0.5 bar	45 °C	Partial acceptance	Drink water Swimming pools	Low
<b>CS 4 - data sheet 193-07</b> Free chlorine 0.01 ... 200 mg/l	4...9	0.5 bar	45 °C	Partial acceptance	Drink water Swimming pools	Low
<b>BR 1 - data sheet 193-09</b> Bromine 0.05 ... 20 mg/l	6.5...9.5	0.5 bar	45 °C	--	Drink water Swimming pools	Low
<b>CD 10 /see datasheet 193-11/</b> Chlorine dioxide 0.01 ... 10 mg/l	1...11	1 bar	50 °C	Tolerance	Swimming pools Drink water Industrial water	--
<b>CCK - data sheet 193-12</b> Free chlorine Chlorine dioxide 0.1 ... 4 mg/l	5...9	6 bar	70 °C	Tolerance	Sanitary hot water Drink water Cooling water	Important*
<b>AS 2, AS 3 - data sheet 193-13</b> Free chlorine Chlorine dioxide 0.3 ... 5 mg/l	5...9	8 bar	50 °C (AS 2) 70 °C (AS 3)	Partial acceptance	Sanitary hot water Drink water Industrial water	Important*
<b>OZ 10.1 /see datasheet 193-22/</b> Ozone 0.01 ... 10 mg/l	4...9	1 bar	50 °C	Partial acceptance	Industrial water Drink water Swimming pools	--
<b>WP 7 - data sheet 193-25</b> Hydrogen peroxide 0.001 ... 100 mg/l	2..7	1 bar	45 °C	Partial acceptance	Drink water CIP	--
<b>PES 7 - data sheet 193-30</b> Peracetic acid 0.001 ... 20 mg/l	1..6	1 bar	45 °C	Forbidden	CIP	--
<b>P 9.3 /See datasheet n° 193-32/</b> Peracetic acid 0.5...20 g/l	1...8	1 bar	50 °C	Tolerance	CIP	--

\* : pH must remain constant

## REMINDER

Free chlorine: $\text{Cl}_2 + \text{HClO} + \text{ClO}^-$	Isocyanuric acid: $\text{C}_3\text{N}_3(\text{OH})_3$	Hydrogen peroxide: $\text{H}_2\text{O}_2$
Total chlorine: $\text{Cl}_2 + \text{ClO}^- + \text{HClO} + \text{NH}_2\text{Cl} + \text{NHCl}_2$	Chlorine dioxide: $\text{ClO}_2$	Peracetic acid: $\text{CH}_3\text{COOOH}$



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