

Measuring cell

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# Measuring cells for free chlorine, chlorine dioxide, ozone

These membrane-covered, amperometric measuring cells are used to determine the concentration of free chlorine, chlorine dioxide or ozone in aqueous solutions (e.g. in drinking or pool water as well as in service, process or cooling water).

And, by using the cell for ozone, it is also possible to measure electrolytically produced ozone, for example.

The integral electronics of the cells provides a temperature-compensated 4 – 20 mA current signal. Calibration is performed through a connected instrument (indicator, controller, recorder, PLC, etc.).



## Accessory (optional)

### Material

- Housing: PVC
- Sample vessel: PC

### Permissible temperature / pressure

- >0 to +50 °C; at 1 bar

### Connection

- G 1/4 threaded hose connection

### Fixing

- Option: mounting bracket in stainless steel



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## Technical specification

Analyte	Free chlorine		Chlorine dioxide (ClO <sub>2</sub> )		Ozone (O <sub>3</sub> )	
Membrane type	Hydrophobic PTFE membrane	Hydrophilic membrane	Hydrophobic PTFE membrane	Membrane insensitive to chemicals and tensides	Hydrophobic PTFE membrane	Membrane insensitive to chemicals and tensides
Incident flow velocity	Approx. 15 cm/sec					
Measurement ranges (other ranges on request)	0-2.0 / 0-5.0 / 0-10 mg/l (ppm)		0-2.0 mg/l (ppm)	0-0.5/0-2.0/0-5/0-10 mg/l (ppm)	0-2.0 mg/l (ppm)	
Resolution	0.001 mg/l, for the 0-0.5 mg/l range; 0.01 mg/l, for the 0-2.0 mg/l range					
Response time t <sub>90</sub>	Appr. 30 sec	Appr. 2 min	Appr. 15 sec	Appr. 20 sec	Appr. 15 sec	Appr. 50 sec
Operating temp/temp. comp.	> 5 to 45 °C		> 5 to 55 °C		> 5 to 45 °C	> 5 to 55 °C
pH application range	6.0 to 8 pH*	4 to 9 pH	1 to 11 pH		2 to 11 pH	
Safe pressure	Pabs. max. 2 bar / prel. max. 1 bar. Variations in pressure are not permissible for pressurized operation. We recommend unpressurized operation (atmospheric pressure).					

\* Note the effect of pH on the disinfecting properties, corrosion or dissociation curve.

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