

# 1.1 Amperometric Sensors DULCOTEST®

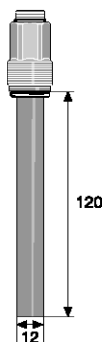


## Sensor for Free Chlorine CLB 3-µA

Cost-effective, simple sensor for the measurement of free chlorine in clear water when the media temperature is constant. Use even when electrolysis processes are used for disinfection at up to 45 °C/3 bar. For operation with the Compact controller DCCa

### Your benefits

- Measured variable: free chlorine, no significant cross sensitivity to combined chlorine (chloramines)
- Cost-effective due to its simple construction without separate wear parts
- Simple, cost-effective maintenance without handling of the diaphragm caps
- Minimisation of faults by electrolysis systems without diaphragm in which the electrodes are immersed directly into the sample water by an open sensor (no diaphragm)
- Measurement of free chlorine up to pH 9 and use at high pressure of up to 8 bar by the absence of a diaphragm



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<b>Measured variable</b>	free chlorine
<b>Measuring range</b>	0.05 - 5.0 mg/l: linear, can be used for shock chlorination up to 10.0 mg/l
<b>Reference method</b>	DPD1
<b>pH range</b>	5.0 ... 9.0
<b>Temperature</b>	5 ... 45 °C constant temperature needed, as temperature-dependent signal
<b>Max. pressure</b>	3.0 bar
<b>Intake flow</b>	30...60 l/h (in DGMA), constant flow necessary, as flow-dependent signal
<b>Supply voltage</b>	Only for compact controllers
<b>Output signal</b>	Non-amplified primary current signal, not temperature-compensated, uncalibrated, not electrically isolated
<b>Temperature measurement</b>	None
<b>Selectivity</b>	Free chlorine as against combined chlorine
<b>Disinfection process</b>	Chlorine gas, hypochlorite, electrolysis with diaphragm, electrolysis without diaphragm with electrodes in the process
<b>Installation</b>	Bypass: open sample water outlet, inline: direct installation into the pipework; fixed or replaceable (replaceable fitting)
<b>Sensor fitting</b>	DGM, DLG III
<b>Electrical connection</b>	Fixed cable, 1 m, 4 wires with cable end sleeves
<b>Measuring and control equipment</b>	Compact controller
<b>Typical applications</b>	Swimming pools, potable water, can also be used with membrane-free chlorine production electrolysis processes
<b>Resistance to</b>	surfactants
<b>Measuring principle, technology</b>	Amperometric, 3 electrodes, without diaphragm

	Measuring range	Order no.
CLB 3-µA-5 ppm	0.05...5.0 mg/l	1041696

