

1.1 Amperometric Sensors DULCOTEST®

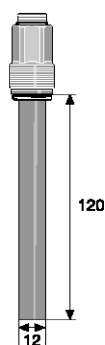
Sensor for Free Chlorine CLB 2-µA



Cost-effective, simple sensor for the measurement of free chlorine in clear water, even with a changing media temperature. 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



pk_6_095

Measured variable	free chlorine
Measuring range	0.05 – 5.0 mg/l, can be used for short-term shock chlorination up to 10 mg/l
Reference method	DPD1
pH range	5.0 ... 9.0
Temperature	5 ... 45 °C
Max. pressure	3.0 bar
Intake flow	30...60 l/h (in DGMA), constant flow needed as flow-dependent signal
Supply voltage	Only for compact controllers
Output signal	Non-amplified primary current signal, not temperature-compensated, uncalibrated, not electrically isolated
Temperature measurement	Pt 1000, integrated, calculation in the compact controller
Selectivity	Free chlorine as against combined chlorine
Disinfection process	Chlorine gas, hypochlorite, electrolysis with diaphragm, electrolysis without diaphragm with electrodes in the process
Installation	Bypass: open sample water outlet, inline: direct installation into the pipework
Sensor fitting	DGM, DLG III
Electrical connection	Fixed cable, 1 m, 6 wires with cable end sleeves
Measuring and control equipment	Compact controller
Typical applications	Swimming pools, potable water, can also be used with membrane-free chlorine production electrolysis processes, even with varying media temperatures
Resistance to	surfactants
Measuring principle, technology	Amperometric, 3 electrodes, without diaphragm

	Measuring range	Order no.
CLB 2-µA-5 ppm	0.05...5.0 mg/l	1038902

