

1.1 Amperometric Sensors DULCOTEST®

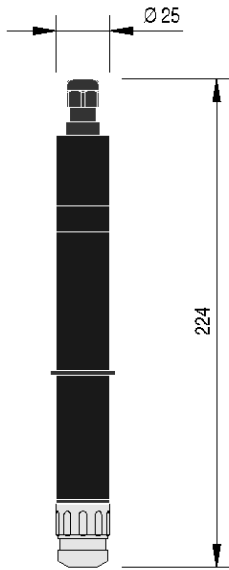


Sensor for Free Chlorine CLO 1-mA

Sensor for the measurement of free chlorine in clear water even when using electrolysis processes for disinfection, up to 45 °C (1 bar) or 8 bar (25 °C). For use with controllers with 4-20 mA input

Your benefits

- Measured variable: free chlorine, no significant cross sensitivity to combined chlorine (chloramines)
- Use with return of the sample water to the process line
- Use at higher pressures
- Minimisation of faults by electrolysis systems in which the electrodes are immersed directly into the sample water (without diaphragm) by open sensor (no diaphragm) and gold electrodes
- Measurement of free chlorine up to pH 9



P_DT_0072_SW1

Measured variable	free chlorine
Reference method	DPD1
pH range	5.0 ... 9.0
Temperature	5 ... 45 °C
Max. pressure	8.0 bar (25 °C)
Intake flow	30...60 l/h (in DGM or DLG III), constant flow as flow-dependent signal
Supply voltage	16...24 V DC (2-wire)
Output signal	4...20 mA = Measuring range, temperature-compensated, uncalibrated, not electrically isolated
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 outlet or return of the sample water into the process line, inline: direct installation into the tubes with the INLI fitting
Sensor fitting	DLG up to 1 bar/55 °C; DGM up to 6 bar/30 °C; INLI up to 7 bar/40 °C
Measuring and control equipment	D1C, DAC, AEGIS II
Typical applications	Swimming pools, uncontaminated potable water and industrial service water, and can also be used together with diaphragm-free electrolysis processes. Can also be used in conjunction with hydrodynamic cleaning even in contaminated water.
Resistance to	surfactants
Measuring principle, technology	Amperometric, 3 electrodes, without diaphragm

	Measuring range	Order no.
CLO 1-mA-2 ppm	0.02...2.0 mg/l	1033871
CLO 1-mA-10 ppm	0.10...10.0 mg/l	1033870

