Amperometric Sensors DULCOTEST®

1.1.5

DULCOTEST® Sensors for Total Chlorine

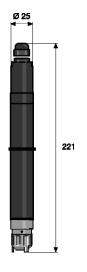
Sensor for Total Chlorine CTE 1-mA



Sensor for total chlorine, including, for example, free chlorine, chloramines etc. even with high pH values in different kinds of water. For use on controllers with mA input

Your benefits

- Measured variable: Total chlorine, chlorine compounds, in which chlorine acts as an oxidising agent, e.g. free chlorine (HOCl and OCl-), chloramines etc.
- Diaphragm-covered sensor (encapsulated) prevents faults caused by changing flow or ingredients in the water
- Hydrophilic diaphragm guarantees permeability for different water-soluble oxidising agents towards the measuring electrodes
- The special reaction system of the electrolyte allows components containing oxidising chlorine to be determined and used at a high pH of up to 9.5



pk_6_040

Measured variable Total chlorine Reference method DPD4 pH range 5.5 ... 9.5 **Temperature** 5 ... 45 °C Max. pressure 3.0 bar

Intake flow 30...60 l/h (in DGM or DLG III) Supply voltage 16...24 V DC (two-wire technology)

4...20 mA ≈ measuring range, temperature-compensated, **Output signal**

uncalibrated, not electrically isolated

Selectivity Non-selective, cross-sensitive towards many oxidation agents **Disinfection process** Chlorine gas, hypochlorite, electrolysis with diaphragm,

monochloramine

Installation Bypass: open sample water outlet

DGM, DLG III Sensor fitting Measuring and control D1C, DAC, AEGIS II

equipment

Typical applications CTE 1-mA-0.5 ppm: Potable water; CTE 1-mA-2/5/10 ppm: Potable, industrial, process, waste water. In swimming pools combined with

CLE 3.1 to detect combined chlorine.

Resistance to surfactants

Measuring principle, Amperometric, 2 electrodes, membrane-covered

technology

	Measuring range	Order no.
CTE 1-mA-0.5 ppm	0.010.5 mg/l	740686
CTE 1-mA-2 ppm	0.022.0 mg/l	740685
CTE 1-mA-5 ppm	0.055.0 mg/l	1003203
CTE 1-mA-10 ppm	0.1010.0 mg/l	740684

Chlorine sensors complete with 50 ml of electrolyte

A mounting kit, order no. 815079, is required for initial fitting of the chlorine sensors in the in-line probe housing DLG III.