

# 1.1 Amperometric Sensors DULCOTEST®

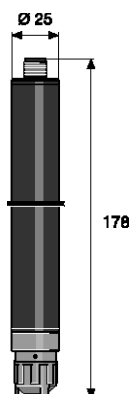


## Sensor for Total Chlorine CTE 1-DMT

Sensor for total chlorine, including, for example, free chlorine, chloramines etc. even with high pH values in different kinds of water. For operation with the transmitter DMT

### Your benefits

- Measured variable: Total chlorine, chlorine compounds, in which chlorine acts as an oxidising agent, e.g. free chlorine (HOCl and OCl<sup>-</sup>), 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\_015

|  |   |
|--|---|
| <b>Measured variable</b>               | Total chlorine  |
| <b>Reference method</b>                | DPD4  |
| <b>pH range</b>                        | 5.5 ... 9.5   |
| <b>Temperature</b>                     | 5 ... 45 °C   |
| <b>Max. pressure</b>                   | 3.0 bar   |
| <b>Intake flow</b>                     | 30...60 l/h (in DGM or DLG III)   |
| <b>Supply voltage</b>                  | 3.3 V DC (5 P)  |
| <b>Output signal</b>                   | Uncalibrated, not temperature-compensated, not electrically isolated    |
| <b>Selectivity</b>                     | Non-selective, cross-sensitive towards many oxidation agents            |
| <b>Disinfection process</b>            | Chlorine gas, hypochlorite, electrolysis with diaphragm, monochloramine |
| <b>Installation</b>                    | Bypass: open sample water outlet  |
| <b>Sensor fitting</b>                  | DGM, DLG III  |
| <b>Measuring and control equipment</b> | DMT   |
| <b>Typical applications</b>            | Potable, industrial, process, waste water                               |
| <b>Resistance to</b>                   | surfactants   |
| <b>Measuring principle, technology</b> | Amperometric, 2 electrodes, membrane-covered                            |

|                         | Measuring range  | Order no. |
|-------------------------|------------------|-----------|
| <b>CTE 1-DMT-10 ppm</b> | 0.01...10.0 mg/l | 1007540   |

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.

Signal leads see Sensor Accessories, p. → 1-113

