

# 1.1 Amperometric Sensors DULCOTEST®

## 1.1.8 DULCOTEST® Sensors for Chlorite

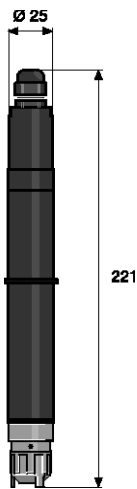
### Chlorite Sensor CLT 1-mA



Sensor for monitoring the disinfection by-product chlorite in compliance with potable water regulations. Without cross-sensitivity towards chlorine dioxide, chlorate and chlorine. For operation on controllers with 4-20 mA input

#### Your benefits

- Online monitoring of the disinfection by-product chlorite
- Diaphragm-covered sensor minimises faults caused by changing flow or ingredients in the water
- No interference by chlorine dioxide/chlorine/chlorate
- Online monitoring improves process reliability
- Online monitoring replaces expensive laboratory analysis



pk\_6\_040

**DVGW  
recommended**

<b>Measured variable</b>	Chlorite anion (ClO <sub>2</sub> <sup>-</sup> )
<b>Reference method</b>	DPD method, chlorite in the presence of chlorine dioxide
<b>pH range</b>	6.5 ... 9.5
<b>Cross sensitivity</b>	reducing chemicals, e. g. Fe <sup>2+</sup> , Mn <sup>2+</sup>
<b>Temperature</b>	1 ... 40 °C
<b>Max. pressure</b>	1.0 bar
<b>Intake flow</b>	30...60 l/h (in DGM or DLG III)
<b>Supply voltage</b>	16...24 V DC (two-wire technology)
<b>Output signal</b>	4...20 mA ≈ measuring range, temperature-compensated, uncalibrated, not electrically isolated
<b>Selectivity</b>	Chlorite selective towards chlorine dioxide, chlorate and free chlorine
<b>Installation</b>	Bypass: open sample water outlet
<b>Sensor fitting</b>	DGM, DLG III
<b>Measuring and control equipment</b>	D1C, DAC
<b>Typical applications</b>	Monitoring of chlorine dioxide treated potable water or similar water. The selective measurement of chlorite alongside chlorine dioxide, chlorine and chlorate is possible.
<b>Resistance to</b>	surfactants
<b>Measuring principle, technology</b>	Amperometric, 2 electrodes, membrane-covered

	Measuring range	Order no.
CLT 1-mA-0.5 ppm	0.02...0.5 mg/l	1021596
CLT 1-mA-2 ppm	0.10...2.0 mg/l	1021595

Chlorite sensors complete with 50 ml of electrolyte.

**Note:** A mounting kit (order no. 815079) is required for initial fitting of the chlorite sensors in the in-line probe housing DLG III.

The DT4 photometer is recommended for calibration of the chlorite sensor.

