

# 1.1 Amperometric Sensors DULCOTEST®

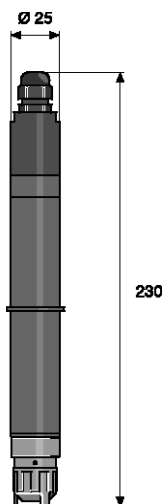
## Chlorine Dioxide Sensor CDP 1-mA



Sensor for the measurement of chlorine dioxide with a fast response time, for example in bottle-washing systems. For operation on controllers with 4-20 mA input

### Your benefits

- Measured variable: Chlorine dioxide without interference caused by surfactants
- Diaphragm-covered sensor minimises faults caused by changing flow or ingredients in the water
- Fast response time through open-pored diaphragm and external temperature measurement



pk\_6\_047

<b>Measured variable</b>	Chlorine dioxide (ClO <sub>2</sub> )
<b>Reference method</b>	DPD1
<b>pH range</b>	5.5 ... 10.5
<b>Cross sensitivity</b>	Ozone, chlorine
<b>Temperature</b>	10 ... 45 °C
<b>Max. pressure</b>	3.0 bar
<b>Intake flow</b>	30...60 l/h
<b>Supply voltage</b>	16...24 V DC (two-wire technology)
<b>Output signal</b>	4...20 mA ≈ measuring range, not temperature-compensated, uncalibrated, not electrically isolated
<b>Temperature measurement</b>	Separate temperature measurement needed for compensation
<b>Response time sensor t<sub>90</sub></b>	60 s
<b>Selectivity</b>	Chlorine dioxide as against chlorite and chlorate
<b>Installation</b>	Bypass: open sample water outlet
<b>Sensor fitting</b>	ProMinent recommends installing the sensor in the DLG II in-line probe fitting with upstream flow monitoring together with a Pt 100 temperature sensor
<b>Measuring and control equipment</b>	D1C and DAC with automatic temperature correction only
<b>Typical applications</b>	Process water containing surfactants (bottle washing machines)
<b>Resistance to</b>	Surfactants, slight films of dirt
<b>Measuring principle, technology</b>	Amperometric, 2 electrodes, membrane-covered

	Measuring range	Order no.
<b>CDP 1-mA-2 ppm</b>	0.02...2.0 mg/l	1002149

Chlorine dioxide sensors complete with 100 ml of electrolyte

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

