

DULCOTEST sensors for ozone

Reliable online measurement of ozone – with DULCOTEST sensors.



Measuring ozone in oxidation and disinfection applications: DULCOTEST sensors offer precise, reliable, application-specific measured values in real time.

Technical Details

- pH range: 4.0 ... 11.0 Stability range of ozone
- Temperature 5 ... 40 °C
- Pressure max. 1.0 bar
- Flow 30 ... 60 l/h (in DGM or DLG III)
- Supply voltage 16 ... 24 V DC (two-wire)
- Output signal 4 ... 20 mA



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Reliable online measurement of ozone – with DULCOTEST sensors.

Ozone sensor OZE 3-mA

Standard sensor for measuring ozone in clear water. For operation on controllers with 4-20 mA input

Your Benefits

- Measured variable: Ozone, without cross sensitivity to chlorine, hydrogen peroxide
- Diaphragm-covered sensor (encapsulated) minimises faults caused by changing flow or ingredients in the water

Measured variable	Ozone (O ₃)
Reference method	DPD4
pH-range	4.0...11.0
Cross sensitivity	Chlorine dioxide
Temperature	5...40 °C
Max. pressure	1.0 bar
Flow	DGMa, DLG III: 20...60 l/h BAMa: 5...100 l/h (depending on design)
Supply voltage	16...24 V DC (2-wire)
Output signal	4-20 mA ≈ measuring range, temperature-compensated, uncalibrated, not electrically isolated
Selectivity	Ozone as against free chlorine, combined chlorine, hydrogen peroxide
Process integration	Bypass: open sample water outlet
Sensor fitting	BAMa, DGMa, DLG III
Controllers	D1C
Typical applications	Potable water and swimming pool water.
Resistance to	Salts, acids, alkalis. Not surfactants
Measuring principle, technology	Amperometric, 2 electrodes, diaphragm-covered

	Measuring range	Order no.
OZE 3-mA	0.02...2.0 mg/l	792957

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

DULCOTEST sensors for ozone

Reliable online measurement of ozone – with DULCOTEST sensors.

Ozone sensor OZR 1-mA

Sensor for measuring and monitoring the absence of ozone, also suitable for use in contaminated water. For operation on controllers with 4-20 mA input

Your Benefits

- Measured variable: Ozone, without cross sensitivity to chlorine, hydrogen peroxide
- Diaphragm-covered sensor (encapsulated) minimises faults caused by changing flow or ingredients in the water
- Suitable also for monitoring the absence of ozone (rupture monitoring on filters) and for discontinuous ozone treatment processes
- Resistance to films of dirt by pore-free diaphragm

Measured variable	Ozone (O ₃)
Reference method	DPD4
pH-range	4.0...11.0
Cross sensitivity	chlorine dioxide, peracetic acid, bromine, bromamine
Temperature	5...40 °C
Max. pressure	1.0 bar
Flow	DGMa, DLG III: 30...60 l/h BAMa: 5...100 l/h (depending on design)
Supply voltage	16...24 V DC (2-wire)
Output signal	4-20 mA ≈ measuring range, temperature-compensated, uncalibrated, not electrically isolated
Response time t ₉₀ after 1 month with 0.00 ppm ozone	<210 s
Selectivity	Non-selective
Process integration	Bypass: open sample water outlet
Sensor fitting	BAMa, DGMa, DLG III
Controllers	D1C
Typical applications	Potable water, swimming pool water, process, service or cooling water, monitoring the ozone breakdown of filters.
Resistance to	Salts, acids, alkalis, surfactants, dirt films
Measuring principle, technology	Amperometric, 2 electrodes, diaphragm-covered

	Measuring range	Order no.
OZR 1-mA-0.5 ppm	0.01...0.5 mg/l	1118883
OZR 1-mA-2 ppm	0.02...2.0 mg/l	1051647
OZR 1-mA-10 ppm	0.1...10.0 mg/l	1118925

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