

DULCOTEST sensors for peracetic acid

Reliable online measurement of peracetic acid with DULCOTEST sensors.



Measurement of peracetic acid concentration with DULCOTEST sensors: Precise and reliable for disinfection in safety-sensitive applications in the food, pharmaceutical and medical industries. Can also be used in waste water treatment.

Technical Details

- Type PAA 1: 1 ... 200 ppm and 10 ... 2,000 ppm
- Type PAA 2-3E: 0.02 ... 2 ppm and 0.2 ... 20.0 ppm
- Conditions of use: temperature up to 45 °C, pressure up to 3 bar (30 °C)



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Peracetic Acid Sensor PAA 1-mA

Sensor for the measurement of peracetic acid without cross-sensitivity to hydrogen peroxide. For disinfecting contaminated water from washing foodstuffs and from cleaning procedures (e.g. CIP).

Your Benefits

- Measured variable: Peracetic acid, without cross-sensitivity towards the accompanying chemical, hydrogen peroxide
- Diaphragm-covered sensor minimises faults caused by changing flow or ingredients in the water
- Resistance to films of dirt by pore-free diaphragm

Measured variable	Peracetic acid
Reference method	Titration
pH-range	1.0...9.0
Temperature	1...45 °C
Admissible temperature fluctuation	0.3 °C/min
Response time sensor t_{90}	≈ 3 min
Max. pressure	3.0 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
Selectivity	Peracetic acid selective towards hydrogen peroxide
Cross sensitivity	Ozone, chlorine dioxide, chlorine, bromine
Process integration	Bypass: open sample water outlet
Sensor fitting	BAMa, DGMa, DLG III
Controllers	D1C, DAC, AEGIS II
Typical applications	Flushing with Cleaning In Place (CIP), washing vegetables, fruit and meat, rinsers, also suitable for use in the presence of surfactants. The selective measurement of peracetic acid in the presence of hydrogen peroxide is possible.
Resistance to	Salts, acids, alkalis, surfactants, dirt films
Measuring principle, technology	Amperometric, 2 electrodes, diaphragm-covered

	Measuring range	Order no.
PAA 1-mA-200 ppm	1...200 mg/l	1022506
PAA 1-mA-2000 ppm	10...2,000 mg/l	1022507

Note: A mounting kit (order no. 815079) is required for initial fitting of the sensors in the sensor bypass fitting DLG III.

DULCOTEST sensors for peracetic acid

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Peracetic acid sensor PAA 2-3E-mA

Sensor for measuring even low concentrations of peracetic acid without cross-sensitivity to hydrogen peroxide even in waste water (pre-cleaned)

Your Benefits

- Measured variable: peracetic acid, without cross-sensitivity to the accompanying chemical, hydrogen peroxide
- Low dependence on flow, reduced faults caused by substances in the water and films of dirt, thanks to a membrane protecting the measuring electrodes
- Sensitive measuring range from 0..02 mg/l provided by potentiometric system containing 3 electrodes
- Measured values for monitoring or fast control due to short sensor response time < 30 s
- An integrated transmitter and the signal cable's plug-in connector make for an easy installation

Measured variable	Peracetic acid
Calibration	DPD4, titration
pH-range	5.5...8.0
Temperature	0...40 °C
Admissible temperature fluctuation	< 0.3 °C/min
Response time sensor t ₉₀	< 45 s
Max. pressure	3.0 bar
Electrolytic conductivity	0.05...50 mS/cm
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
Selectivity	Peracetic acid selective towards hydrogen peroxide
Cross sensitivity	Ozone, chlorine dioxide, chlorine, bromine
Process integration	Bypass: open outlet or return of the sample water into the process line
Sensor fitting	BAMa, DGMa, DLG III
Controllers	DAC, D1Cb
Typical applications	Disinfecting pre-cleaned waste water, measurement and control of low peracetic acid concentrations in the pharmaceutical industry and medical technology.
Resistance to	Salts, acids, alkalis, surfactants, dirt films
Measuring principle, technology	Amperometric, 3 electrodes, diaphragm-covered

	Measuring range	Order no.
PAA 2-3E-mA-2 ppm	0.02...2.0 mg/l	1120263
PAA 2-3E-mA-20 ppm	0.2...20.0 mg/l	1119538