

1.1 Amperometric Sensors DULCOTEST®

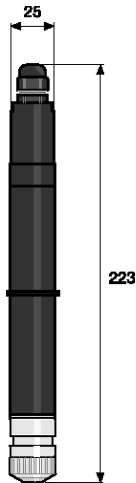


Hydrogen Peroxide Sensor PER1

Sensor for the measurement of hydrogen peroxide even in chemically contaminated and polluted water. Available with measuring ranges for extremely low or very high concentrations

Your benefits

- Measured variable hydrogen peroxide, with measuring ranges from 0.5 ppm to 100,000 ppm (10%) available
- Diaphragm-covered sensor minimises faults caused by changing flow or ingredients in the water
- Resistance to films of dirt by pore-free diaphragm
- Operating temperature up to 50 °C



pk_6_083

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| Measured variable | Hydrogen peroxide |
| Calibration | Photometric with manual DT3B photometer |
| pH range | 1.0 ... 11.0 |
| Cross sensitivity | Ozone, chlorine dioxide, peracetic acid, chlorine, bromine |
| Temperature | 0 ... 50 °C |
| Admissible temperature fluctuation | < 0.3 °C/min |
| Response time sensor t₉₀ | approx. 480 sec |
| Min. conductivity | 0.05 ... 5.00 mS/cm |
| Max. pressure | 1.0 bar |
| Intake flow | 20...100 l/h |
| Supply voltage | 16...24 V DC (two-wire system) |
| Output signal | 4...20 mA temperature-compensated, uncalibrated, not electrically isolated |
| Selectivity | Hydrogen peroxide selective towards sulphite |
| Installation | Bypass: open outlet or return of the sample water into the process line |
| In-line probe fitting | DGM, DLG |
| Measuring and control equipment | D1Cb, DAC |
| Typical applications | Swimming pools, treatment of contaminated waste waters, treatment of process media from production |
| Resistance to | Salts, acids, alkalis, surfactants, dirt films, not against hydrogen sulphide (H ₂ S) |
| Measuring principle, technology | Amperometric, 2 electrodes, membrane-covered |

| | Measuring range | Order no. |
|--------------------------|----------------------|-----------|
| PER 1-mA-50 ppm | 0.50...50.0 mg/l | 1030511 |
| PER 1-mA-200 ppm | 2.00...200.0 mg/l | 1022509 |
| PER 1-mA-2000 ppm | 20.00...2,000.0 mg/l | 1022510 |

Important note: Measuring ranges up to 100,000 ppm on request
Photometer → 2-98

Accessories

| | Order no. |
|--|-----------|
| Photometer DT3B hydrogen peroxide (for calibration) | 1039317 |

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