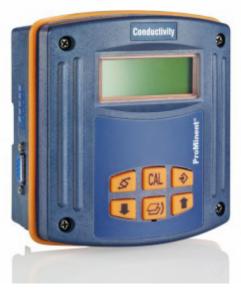
Transmitter DULCOMETER® DMTa

The compact 2-wire transmitter - the link to the PLC and DULCOMETER®



The 2-wire transmitter DMTa converts the following sensor signals into an interference-insensitive 4-20 mA analogue signal: pH, ORP, temperature, chlorine and conductivity.

It is fed via the 2-wire analogue input of a PLC or via a 2-wire analogue input of a ProMinent controller. The 4-20 mA analogue current proportional to the measured value is transmitted via the same two lines.

The DMTa offers an on-site calibration option of the sensor and galvanic separation between the sensor input and measured value output.

Your benefits

- Flexibility in the choice of measured variable with pH, ORP and temperature.
- Excellent operational safety, thanks to sensor monitoring (pH).
- Galvanic isolation between the sensor and supply.

Field of application

Measuring technology in water treatment in the following sectors:

- Processes and process technology
- Food and beverage industry
- Chemical industry
- Pharmaceuticals
- Waste water treatment
- Power station technology

- Always the optimum measured value resolution by autoranging with conductivity measurement.
- Safety through sensor monitoring of pH for glass breakage and line breakage.
- Various installation options: wall-mounted, installation on an upright or in a control cabinet.







ProMinent®

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Technical Data

| Measuring range Cell constant Resolution | pH - 1.00 15.00 - 1200 +1200 mV ORP voltage 0.01 50.0 mg/l chlorine -20 +150 °C 1 μS/cm 200 mS/cm (autoranging), corresponding to cell constant 0.006 12.0/cm for conductivity 0.01 pH 1 mV 0.1% from measurement range for chlorine 0.1 °C Conductivity 1/1000 of display value (min. 0.001 μS/cm) |
|---|---|
| Accuracy | 0.5% from measurement range |
| Measurement input | mV terminal (pH, ORP); imput resistance $> 5 \times 10^{11} \Omega$ Chlorine terminal (DMT chlorine sensors) Pt 100/1000 terminal Conductivity terminal (2 or 4 wire connector) |
| Correction variable | Temperature via Pt 100/1000 (pH, chlorine, conductivity) |
| Correction range | Chlorine: 5 45 °C, pH: 0 100 °C, conductivity: 0 100 °C |
| Current output | 420 mA |
| Fault current | 23 mA |
| Feed voltage | 2-wire transmitter, 16 35 V DC, nominal 24 V PROFIBUS®-DP version, 16 30 V DC, nominal 24 V |
| Communication interface | PROFIBUS®-DP (wall-mounted version only) |
| Permissible ambient temperature | 055 °C |
| Climate | Relative humidity up to 95% (non-condensing) |
| Enclosure rating | IP 65 (wall/pipe mounted) IP 54 (control panel installation) |
| Display | graphical display |
| Housing material | PPE |
| Dimensions H x W x D | 135 x 125 x 75 mm |
| Weight | 0.45 kg |
| | |

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