

Transmitter DULCOMETER® DMTa

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

ProMinent®



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

- Measured variables: pH, ORP, chlorine, temperature and conductivity
- Precision: 0.5% of the measuring range limit value
- Correction variable: Temperature via Pt 100/Pt 1000 (pH, chlorine, conductivity)
- Communication interface: PROFIBUS DP (wall-mounted only)
- Degree of protection: IP 65 (wall-mounted, pipe-mounted), IP 54 (installation in a control cabinet)
- Display: Graphic display



Transmitter DULCOMETER® DMTa

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

Technical Data

Measuring range	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
Cell constant	0.006 ... 12.0/cm for conductivity
Resolution	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); input resistance > 5 x 10 ¹¹ Ω 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	4...20 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	0...55 °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

■ SYDNEY OFFICE

Unit 4, 4 Narabang Way,
BELROSE NSW 2085
P 02 9450 0995
F 02 9450 0996
sales@prominentfluid.com.au

■ QUEENSLAND OFFICE

Unit 1, 68 Murdoch Circuit,
ACACIA RIDGE QLD 4110
P 07 3213 1900
F 07 3272 0445
pfcqld@prominentfluid.com.au

■ VICTORIA OFFICE

Unit 1/21-22 National Drive
HALLAM VIC 3803
P 03 8795 7430
F 03 8975 7431
pfcvic@prominentfluid.com.au

■ WESTERN AUSTRALIA OFFICE

2/158 Francisco Street
BELMONT WA 6104
pfcwa@prominentfluid.com.au