

DULCOMETER®

DMTa Transmitters

Description

Part No.

DMTa Transmitter

ProMinent® DULCOMETER® DMT transmitters are compact, intelligent two-wire technology devices for measured variables pH, redox, chlorine, temperature and conductivity.



Summary of advantages:

- Reliable measurement
- High level of operating safety
- Simple, flexible installation
- Full text user guidance
- Automatic buffer recognition (pH)
- Autoranging (conductivity)
- Compact design
- Switch between pH, redox and temperature.
- Field bus capabilities

Applications (Process control in):

- Food and beverage industry
- Chemical industry
- Pharmaceutical industry
- Water treatment
- Wastewater treatment

Specifications for DMTa Transmitters

Measurement range:	-1.00 to 15.00 pH -1200 to 1200 mV Redox voltage 0.01 to 50.0 mg/L chlorine 4 to 302°F (-20 to 150°C) 0.00 to 200 mS/cm (autoranging)
Cell constant:	0.006 to 12.0/cm for conductivity
Resolution:	pH: 0.01 Redox: 1 mV Chlorine: 0.1% from measurement range for chlorine Temperature: 32.18°F (0.1°C) Conductivity: Conductivity 1/1000 of display value (min. 0.001 µS/cm)
Repeatability:	0.5% of measurement range
Measurement input:	mV terminal (pH, redox); input resistance > 5 x 10 ¹¹ W Chlorine terminal (DMT chlorine sensors) Pt 100/1000 terminal Conductivity terminals 2 or 4 wire
Correction variable:	Temperature via Pt 100/1000 (conductivity, pH, chlorine)
Correction range:	Chlorine: 41 to 113°F (5 to 45°C), pH: 32 to 212°F (0 to 100°C), Conductivity: 32 to 212°F (0 to 100°C)
Signal output:	4-20 mA
Power supply:	16 - 30 VDC, Loop powered
Communication interface:	Profibus DP (wall mounted version only)
Ambient temperature:	23 to 131°F (-5 to 55°C)
Climatic conditions:	up to 95% relative humidity (above dewpoint)
Enclosure rating:	NEMA 4X (IP 65) for wall mounted unit NEMA 3 (IP 54) for control cabinet installation
Display:	graphical display
Housing:	PPE
Dimensions:	4.9" W x 5.3" H x 3.0" D (125mm W x 135mm H x 75mm D)
Weight:	approximately 0.9 lb. (450 grams)



AC adapter, 24VDC, 500 mA Wall Pack

7902721

DMTa System Requirements

DULCOMETER DMTa Transmitter (see Ident Code)
DULCOTEST Sensor(s) (dependent on measured variable)
DGMa Inline Sensor Holder(s) (to mount sensor in process)
Sensor Cable

Identity code: DULCOMETER® DMTa Transmitters

Series:
DMTA DULCOMETER TRANSMITTERS
version A

W S	Installation: Wall mounted (also column mounted) Control panel installation	
0	Labeling: Standard with logo	
9 5	Electrical Connection: Terminals for 4-20 output, 16-30 VDC loop power supply required Terminals for 4-20 output, 16-30 VDC loop power supply required (for Profibus DP)	
0 4	Communication Interface: None Profibus DP (wall-mounted version only)	
L P R T C	Measured Variable 1: See sensor section for cables. Conductivity pH Redox Temperature Chlorine	
1 0	Measured Variable 2 (Connection Variable): Temperature Pt 1000/Pt 100 None (for measured variable T)	
0	Enclosure Rating: Standard	
E D F S I	Language: English German French Spanish Italian	

The final 4 digits in the identity code give the software presets, e.g. cell constant at conductivity.

0 = Standard settings

Presetting options available on request.

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