DULCOMETER[®] Transducers DMT

5.6.1 Measured Variables: pH, Redox, Temperature, Conductivity

DULCOMETER[®] DMT type transmitters are compact 2-wire transmitters for measured variables pH, redox, chlorine, conductive conductivity, temperature. Easily combined with programmable memory controllers.

Summary of advantages:

ProMinent

5.6

- Reliable measurement due, e.g., to symmetrical input for pH/ redox signals
- High level of operating safety, e.g. probe monitoring (pH), electrical isolation
- Simple flexible installation
- Full text user guidance
- Automatic buffer recognition (pH)
- Autoranging (conductivity)
- Compact design
- Switch between pH, redox and temperature

Technical Data

Measurement range: pH -1.00...15.00 -1200...+1200 mV redox voltage 0.01...50.0 mg/l chlorine -20...+150 °C 1 µS/cm...200 mS/cm (autoranging) **Cell constant:** 0.006...12.0/cm for conductivity **Resolution:** pH 0.01 1 mV 0.1 % from measurement range for chlorine 0.1 °C Conductivity 1/1000 of display value (min. 0.001 µS/cm) **Reproducibility:** 0.5 % from measurement range mV terminal (pH, redox); imput resistance >5 x 10¹¹ ý Measurement input: Chlorine terminal (DMT chlorine probes) Pt 100/1000 terminal Conductivity terminal (2 or 4 wire connector) Temperature via Pt 100/1000 (pH, chlorine, conductivity) **Correction variable: Current output:** 4...20 mA, fault current 23 mA Supply voltage: 16...35 V DC (nominal 24v) Communication interface: Profibus DP (wall-mounted version only) -5...+55 °C Ambient temperature: up to 95 % relative humidity (non-condensing) **Climatic conditions:** IP 65 (wall/pipe mounted) **Enclosure rating:** IP 54 (control panel installation) **Display:** graphical display PPE Housing: 125 x 135 x 75 mm (WxHxD) **Dimensions:** approx. 450 g Weight:

Applications:

- process control in food and beverage industry
- chemical and pharmaceutical industries
- water treatment
- waste water treatment
- power stations



Sensors see section 6. **In-line probe housings, signal cables**, see section 6/16

5.6 DULCOMETER[®] Transducers DMT

5.6.2 Identity Code Ordering System For DMT

DMT DULCOMETER® Transducers

Α	Version														
		Installation:													
	s	Cor	Control panel mounted ¹												
	w	Wall mounted (also column mounted)													
		Version:													
		0	Witl	With ProMinent [®] logo											
			Electrical connection:												
			9	Loop powered 4-20 mA (2 wire, auxiliary power 16 40 V DC) standard											
			5												
				0	Communication interface:										
				4	Profibus [®] DP ³ (Assembly type W only)										
					Measured variable 1										
					P R C L	pН									
						Red	lox								
						Tem	pera	ture							
						Chlc Con	orine	ivity							
							Ma		variala			- veriel			
						01	Measured variable 2 (Correction variable)								
							Terr	peratur	e Pt 10	000/Pt 1	00				
								Enclos	sure ra	ating:					
							0	Standa	ard	-					
								L	angua	ige:					
								ΕE	E English						
									The final 4 digits in the identity code give the software presettings e.g. cell						
									con	stant at	conduct	ivity.			
									0 =	standar	d setting	JS voilable	op request		
									Pre	setting t	ptions a	valiable	e on request.		
													Note:		
													I he panel mounted version does not include the rear housing.		
													²⁾ Choose the 24 V DC electrical connection with the Profibus DP		
													³⁾ Wall-mounted version only		
													Note: Power Supply if required 24Volt DC up to 1 amp		
													MP3494		



