

5.0 DULCOMETER® Compact Controller

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DULCOMETER® Compact transmitters with control functions for pH, ORP, Chlorine and conductive conductivity measured variables provide basic functions for applications in water treatment. They have a fixed configuration with the following features.

Measured variables pH and ORP (can be changed on the controller)

- Operation independent of the operating language (use of abbreviations, such as CAL, PARAM, CONFIG, ERROR)
- Illuminated display
- 3 LED display operating state (relay 1 / 2 active, Error)
- Sensor monitoring for pH
- P and PID control characteristics
- Selectable control direction (raise or lower measured value)
- Pulse frequency relay for control of metering pump
- Power relay can be configured as an alarm, limit value or pulse width modulated control output for metering pumps, (connection function or switch on operating voltage)
- Analogue output 0/4...20 mA can be configured as a writer output or control output
- Digital input to switch off the control or to process a sample water limit contact by remote control
- Temperature sensor input (Pt 1000) for temperature compensation of the pH value



Applications

- Waste water treatment
- Treatment of drinking water
- Swimming pool water treatment

Technical Data

Measurement range	pH: 0.00 ... 14 ORP: -1000 ... +1000 mV ... Chlorine: 0.05- 10 ppm
Resolution	pH: 0.01 pH ... ORP: 1 mV ... Chlorine: 0.01 ppm Conductivity: 1 µS/cm depends on measuring range)
Correction variable	Temperature for pH via Pt 1000
Correction range	0 ... 120 °C
Control characteristic	P/PID
Control	1-way controller with selectable control direction (raise/lower)
Signal current output	1 x 0/4-20 mA galvanically isolated max. load 400 Ω Range and assignment (measured or actuating variable) can be set
Control outputs	1 pulse frequency output for control of the metering pump 1 relay (alarm or limit value relay or pulse length control) 1 x analogue output 0/4 ... 20 mA
Electrical connection	90 - 253 V ~
Ambient temperature	-10 ... +60 °C
Enclosure rating	IP 67
Dimensions	135 x 125 x 75 mm (H x W x D)
Weight	0,5 kg

Part No.

Panel Mounting Kit

1037273



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5.0.2 Identity Code & Pricing for DULCOMETER® Compact Controller

DCCa

Version	
W	Wall / Pipe mounted IP67 for Panel Mounting use this 'W' and add Panel Mounting Kit P/N 1037273 above
S	Do not use this for panel Mounting see above
Design	
00	with ProMinent® logo
Operating voltage	
6	90 ... 253 volts, 48-63 Hz
Measured Variable	
CO	Free Chlorine
PR	pH / ORP (switchable)
L3	Conductive Conductivity (Unit designation COND_C)
L6	Inductive Conductivity (Unit designation COND_I)
Hardware Extension	
0	None
Certification	
01	CE (Standard)
Certificates	
0	none
Documentation language	
EN	English



DCCa W 00 6 PR 0 01 0 EN

