

# 5.1 DULCOMETER® Compact Controller

## 5.1.1

### DULCOMETER® Compact Controller

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

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

Panel Mounting Kit

1037273.

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## 5.1.2 DULCOMETER® Compact Controller

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

**DCCa W 00 6 PR 0 01 0 EN**