

Controller DULCOMETER® D1Cb/D1Cc

The water analysis workhorse

ProMinent®



The controller DULCOMETER D1Cb/D1Cc can be used for control tasks in potable water treatment, wastewater treatment and many other areas. Safe, convenient and clear, thanks to the large illuminated graphic display, plain text operating menu and pH sensor monitoring.

Technical Details

- Measured variables: pH, ORP, chlorine, chlorine dioxide, chlorite, bromine, conductivity, peracetic acid, hydrogen peroxide, ozone, dissolved oxygen and fluoride
- Method of installation, degree of protection: D1Cb wall mounting IP 65, D1Cc control panel mounting IP 54, 1/4 DIN
- Measurement: 1 measuring channel, temperature compensation for pH
- Control: PID controller, bidirectional controller (e.g. with pH acid and alkali)
- Control inputs: 1 digital control input



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Technical Data

Measuring range	Type of connection mV:
	pH 0.00 ... 14.00
	ORP - 1,000 ... +1,000 mV
	Type of connection mA:
	Chlorine: 0.00...0.500/2.00/5.00/10.0/20.0/50.0/100.0 ppm
	Chlorine dioxide: 0.00...0.500/2.00/10.0/20.0 ppm
	Chlorite: 0.02...0.50/0.1...2 ppm
	Bromine: 0.02...2.0/0.1...10.0 ppm
	Ozone: 0.00...2.00 ppm
	Hydrogen peroxide, PER1 sensor : 2.0...200.0/20...2,000 ppm
	Peracetic acid: 1...20/10...200/100...2,000 mg/l
	Dissolved oxygen: 0.1...10/0.1...20 ppm
	pH: 0.00...14.00
ORP: 0...+1,000 mV	
Conductivity: 0...20/200/1,000 mS/cm, via mA converter	
Temperature: 0...100 °C via mA converter	
Resolution	pH: 0.00...14.00 ORP: 0...+1,000 mV Amperometric (e. g. chlorine): 0.001/0.01 ppm, 0.01 vol.%
Accuracy	0.5% of the upper measuring range value
Measurement input	SN6 (input resistance > 0.5 x 10 ¹² Ω)
Correction variable	Temperature via Pt 100/Pt 1000
Correction range temp.	0 ... 100 °C
Control characteristic	P/PID control
Control	2-way control
Signal current output	1 x 0/4-20 mA galvanically isolated max. load 450 Ω Adjustable range and allocation (measured variable, correction variable, controlled variable)
Control outputs	2 pulse frequency outputs for metering pump actuation 2 relays (limit value or pulse length)
Alarm relay	250 V ~ 3 A, 700 VA changeover contact
Electrical connection	100 – 230 V, 50/60 Hz, 15 VA
Ambient temperature	-5 ... 50 °C
Enclosure rating	Wall mounting: IP 65 Control panel version: IP 54
Dimensions	Wall mounting: 198 x 200 x 76 mm (WxHxD) Control panel version: 96 x 96 x 145 mm (WxHxD) (D1Cc)
Weight	0.8 kg

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