

For All Measured Variables - in All Languages

Single-Channel Measuring and Control Instrument DULCOMETER® Type D1Cb



The DULCOMETER® Type D1Cb is suitable for applications in drinking water, waste water and cooling water treatment. The single-channel measuring and control unit D1Cb is equipped for all important measured variables for basic applications in water treatment and with an error and calibration log book. A safe, comfortable, and clear operation is guaranteed thanks to the large, illuminated graphic display, full text operating menu in 15 operating languages, and pH sensor monitoring.

- Always the appropriate controller: Both sensor connection types mA and mV in one single unit
- Subsequent activation of functions via activation key
- For connection type standard signal: all other measured variables such as chlorine, bromine, chlorine dioxide, chlorite etc. and pH, ORP/Redox and conductivity via mA
- For mV: switching capability between pH and ORP/Redox
- Plain text user guidance in 15 operating languages in the controller
- Control of 2 metering pumps via pulse frequency
- 2 power relays for solenoid valve control, limit value monitoring or timer function
- Large, illuminated graphic display with bargraph
- 1 analogue output 0/4 ... 20 mA (measured value/controller output)
- Extended range voltage supply: 90-253 V, 50/60 Hz
- Automatic buffer recognition for pH
- pH sensor monitoring
- Calibration timer, calibration log book
- Operating hours counter
- Metering time monitoring with deactivation of the controller output if time is exceeded



For further information, please visit:
www.prominent.com/d1cb

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Application focuses

- Drinking water treatment
- Waste water treatment
- Cooling water treatment
- Boiler feed water treatment
- Neutralisation

Technical Data

Measuring ranges	Type of connection mV: pH 0.00 ... 14.00 ORP - 1,000 ... +1,000 mV
Measuring input pH	Type of connection mA: Chlorine, chlorine dioxide, chlorite, bromine, ozone, hydrogen peroxide, peracetic acid, dissolved oxygen, pH, ORP/Redox, conductivity, temperature
Measuring input mA	input resistance > 0.5 x 10 ¹² Ω
Correction variable	0/4 ... 20 mA standard signal input
Correction range temp.	Temperature via Pt 100/Pt1000
Disturbance	0 ... 100 °C
Control modes	Frequency
Controlling	P/PID controlling
Signal current output	two-way control
Adjustable output	1 x 0/4-20 mA galvanically isolated
Analogue input	2 pulse frequency outputs for metering pump control
Alarm relay	2 relays (solenoid valve control, limit value or pulse length)
Electrical connection	1 x 0/4 ... 20 mA
Ambient temperature	250 V ~3 A, 700 VA contact type, changeover
System of protection	90 - 253 V, 50/60 Hz
Dimensions	Wall mounted: -5 ... 50 °C
	Wall mounted: IP 65
	Wall mounted: 189 x 200 x 76 mm (WxHxD)

A complete measuring station comprises the following:

- Measuring transducer / controller D1Cb
- Sensor
- Fitting: DGMa..., DLG III..., immersion assembly
- Temperature sensor Pt 100 or Pt 1000
- Sensor cable
- Buffer solution
- Photometer

Experts in Chem-Feed and Water Treatment

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