

# Controller DULCOMETER Compact

## Compact yet fully equipped - the basic water analysis unit



As a controller in water analysis, the DULCOMETER Compact is the correct controller for control tasks that require only a 1-way control.

### Technical Details

- Measured variables: pH, ORP, chlorine, conductive and inductive conductivity
- Method of installation, degree of protection: Combination housing (wall mounting, control panel mounting, pillar assembly) IP 67, control panel IP 54
- Measurement: 1 measuring channel, temperature compensation for conductivity and pH
- Control: PID controller, monodirectional controller (e.g. with pH acid or alkali)
- Control inputs: 1 digital control input



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Measuring range	<p>pH: 0 ... 14          ORP: -1000 ... +1000 mV          Chlorine: 0.05 ... 5 ppm, shock metering up to 10 ppm, max. 12 h with chlorine sensors CLB 4-<math>\mu</math>A-5 ppm and CLB 5-<math>\mu</math>A-5 ppm          Conductive conductivity: 0.5 <math>\mu</math>S/cm ... 20 mS/cm (auto-ranging)          Inductive conductivity with ICT 2: 20 <math>\mu</math>S/cm ... 2000 mS/cm (auto-ranging)          Inductive conductivity with ICT 5: 200 <math>\mu</math>S/cm ... 2000 mS/cm (auto-ranging)</p>
Resolution	<p>pH: 0.01 pH          ORP: 1 mV          Chlorine: 0.01 ppm          Conductivity: 0.1 <math>\mu</math>S/cm (depends on the measuring range)</p>
Accuracy	0.5% of the upper range value
Temperature compensation range	0 ... 120 °C, chlorine 1 ... 45 °C
Control	Monodirectional PID control with selectable control direction
Inputs	<p>Sensor input for the relevant measured variable          Temperature sensor input: pH: Pt 1000, chlorine and conductivity: Pt 100/ Pt 1000          1 digital input as a remote control input for the pause control/sample water fault functions</p>
Outputs	<p>1 pulse frequency output for controlling metering pumps          1 active 0/4...20 mA output configurable as a measured or control variable, max. load: 400 <math>\Omega</math>          1 output relay used as a changeover contact, can be configured as an alarm, limit value or pulse width-modulated control output for motor-driven metering pumps</p>
Cell constant, conductive conductivity	0.05 ... 12.0 cm <sup>-1</sup>
Voltage supply	100 ... 230 V, 50/60 Hz, 5 W
Permissible operating temperature	-10 ... +60 °C
Enclosure rating	IP 67, based on NEMA 4 X Indoor
Dimensions	135 x 125 x 75 mm (H x W x D)
Weight	0.5 kg