

CHEWATEC MC I

Reliable solution for measuring and control



Basic water treatment unit

Measured variables pH / ORP / free chlorine / conductivity

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The measuring and control unit **CHEWATEC MC I** was configured up to now for the measurement of pH/ORP or free chlorine. The reliable controller is now also configured for the measured variable conductive conductivity. This basic unit therefore offers the fundamental functions for water treatment applications.

pH and ORP measured variables are available in a single controller and can easily be selected. Operation is simple and language-independent. **CHEWATEC MC I** Controllers are supplied with a fixed configuration depending on the measured variable selected.

Features

- Illuminated display
- Pulse frequency relay for control of the metering pump
- Power relay can be configured as an alarm, limit value or pulse width-modulated control output for metering pumps or solenoid valves
- Analog output 0/4-20 mA can be configured as a recorder or control output
- Digital input to switch off the controller or process a sample water contact by remote control
- With conductivity: Display of the conductivity, specific resistance, salinity and TDS as well as linear and non-linear temperature compensation

Areas of application

- Waste water treatment
- Potable water treatment
- Swimming pool water treatment

Technical Information

■ Measuring ranges

pH 0.00 ... 14.00

ORP -1,000 ... +1,000 mV

Chlorine 0.05 ... 5.00 ppm

Con. conductivity 1 μ S/cm ... 20 (100*)
mS/cm

Dissolution

■ pH 0.01

■ ORP 1 mV

■ Chlorine 0.01 ppm

■ Conductive conductivity 0.01 μ S/cm / 1
 μ S/cm / 1 mS/cm

Temperature compensation

■ for pH, chlorine and conductivity via Pt
100/Pt 1,000

Compensation range

■ 0 ... 120 °C

Control behavior

■ PID

Control

■ 1-sided control with selectable control
direction (raise/lower)

Signal current output

■ 1x 0/4-20 mA galvanically isolated
Max. load 400 Ω , adjustable range and
assignment (measured or control variable)

Control output

■ 1 pulse frequency output for control of the
metering pump
1 relay (alarm or limit value relay or pulse
length control)

Electrical connection

■ 100 - 230 VAC, 50/60 Hz

Ambient temperature

■ -10 ... +60 °C

Degree of protection

■ IP 67

Dimensions

■ 135 x 125 x 75 mm (H x W x D)

Weight

0.5 kg

*With limited specification up to 100
mS/cm.