



The water controller ME 20 is a processing unit for chlorine content, pH value and water temperature. Depending on the version, up to 6 galvanically isolated measuring channels are available. The expansion options of the controller allow a high level of scalability and enable many areas of application.

AquaSens is a flow fitting with a selectable flow direction and can be operated with a free outlet or under pressure of up to 1.0 bar. The fitting, equipped with a chlorine measuring cell and pH electrode, is ideal for operation with the water controller. The fitting, measuring cell and electrodes are separate products which are not included in the scope of delivery of the water controller.

Depending on the configuration, various actions are triggered by evaluating the measured water values. The proportional outputs are ideally suited for proportional control of dosing pumps and for recording the measured values. Additional applications can be configured with the built-in switching relay. The digital outputs offer easy forwarding of the alarms to external transmission devices, fire alarm systems and control systems.

The software of the water controller allows the configuration of several water circuits. With control functions, individual logic can be programmed with a multitude of options for any application.

The graphic OLED display not only shows the measured values, but also allows easy operation via 5 buttons and clear menu navigation. 6 LEDs show the operating status and the pending alarms at a glance.

The water controller ME 20 is very compact and easy to install with its wall-mounted housing.

The integrated web server enables location-independent access to the water controller via Ethernet connection. The remote connection can be set up from the office, the control center or the smartphone.

The optional UPS module enables the water controller to be supplied with emergency power by connecting batteries.

Additional features such as event memory and periodic functions (e.g. for shock chlorination) make the water controller even more interesting.

- **Measurement of chlorine content, pH value and temperature of the sampling water**
- **Up to 6 galvanically isolated measurement channels**
- **Display of measured values and alarms**
- **Individual configuration for multiple water circuits**
- **Outputs: proportional, digital and relay**
- **Periodic shock chlorination**
- **Modular expansion options**
- **Event memory, UPS and web server**
- **Compact wall-mounted housing**

## ■ Technical Specifications

<b>Operating voltage</b>	230 VAC	24 VDC optional
<b>Power consumption</b>	max. 5 W	
<b>Inputs digital</b>	8 x 24 VDC	Lo < 6 V, Hi > 10 V, max. 30 V
<b>Outputs relay</b>	4 (3x alarms, 1x technical error)	AC1 6.0 A, 250 V AC3 0.185 kW min. 10 V, 5 mA
<b>Outputs digital</b>	4 x 500 mA or 2 x 1'000 mA 2 x 1'500 mA	
<b>Connectors</b>	max. 1.5 mm <sup>2</sup>	
<b>Display</b>	OLED yellow	Graphical 128 x 64 pixels
<b>Periodic shock chlorination</b>	Interval and duration	Real time clock
<b>Event memory</b>	200 entries	
<b>Ethernet / Web server</b>	10 / 100 Mbit/s	
<b>Ambient temperature</b>	-10...+50 °C	
<b>Humidity</b>	20...90 % rF	Non-condensing
<b>Casing</b>	ABS plastic	
<b>Dimensions WxHxD</b>	200 x 180 x 110 mm	
<b>Installation</b>	Wall-mounted housing	
<b>Weight</b>	1'200 g	
<b>EU conformity</b>	CE mark including EMC test	

## ■ Versions

Article code	Sensors Chlorine	Sensors pH	Outputs Analogue
<b>ME20-100-000</b>	0	1	4
<b>ME20-200-000</b>	1	0	4
<b>ME20-210-000</b>	1	1	4
<b>ME20-221-000</b>	2	1	8

## ■ Related Products

Article code	Description
<b>ME18-XXX-000</b>	Water Controller ME 18 for rack mount

## ■ Fittings and Water Sensors

Article code	Description
<b>MEAS-A18-CL</b>	AquaSens tap ASA18 incl. chlorine measuring cell
<b>MEAS-MZE18</b>	AquaSens chlorine cell in exchange
<b>MEAS-CS01</b>	Cleaning sand for chlorine cell
<b>MEPH-EL-120</b>	pH electrode 120 mm gel
<b>MERX-EL-120</b>	Redox electrode
<b>MEAS-KA-01S</b>	Cable AquaSens chlorine, 1 m with plug
<b>MEPH-KA-01S</b>	Cable pH electrode, 1 m with plug

## ■ Optional Modules

Article code	Description
<b>ME15-0...20</b>	4 analogue outputs 0 / 4...20 mA Proportional controller for control of dosing pumps and recorders/ recording devices
<b>ME15-0...10V</b>	4 analogue outputs 0...10 V
<b>ME15-DIGITAL-IO</b>	4 additional digital inputs 24 VDC or 4 additional outputs digital 24 VDC, 500 mA
<b>ME15-USV</b>	UPS module 24 VDC stabilized Charging current: 10...1,500 mA Discharge Current: Max 2.5 A / 3.0 A during 15 min Logger battery voltage: 80 min

## ■ Accessories

Article code	Description
<b>ME20-LI6S1P</b>	Batteries 72 Wh for UPS operation (1 pack of 6 cells)