



- **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**
- **96 x 96 mm rack mount**

The water controller ME 18 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 ME 18 is mounted in a bracket of 96 x 96 mm, ideal for 19 inch racks. The mounting plate is available for purchase.

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.

■ Technical Specifications

Operating voltage	230 VAC	24 VDC optional
Power consumption	max. 5 W	
Inputs digital	8 x 24 VDC	Lo < 6 V, Hi > 10 V, max. 30 V
Outputs relay	4 (3x alarms, 1x technical error)	AC1 6.0 A, 250 V AC3 0.185 kW min. 10 V, 5 mA
Outputs digital	4 x 500 mA or 2 x 1'000 mA	
Connectors	max. 1.5 mm ²	
Display	OLED yellow	Graphical 128 x 64 pixels
Periodic shock chlorination	Interval and duration	Real time clock
Event memory	200 entries	
Ethernet / Web server	10 / 100 Mbit/s	
Ambient temperature	-10...+50 °C	
Humidity	20...90 % rF	Non-condensing
Casing	Aluminum, front anodized	
Dimensions WxHxD	96 x 96 x 74 mm	
Installation	Front installation: 96 x 96 mm	Size: 90 x 90 mm
Weight	380 g	
EU conformity	CE mark including EMC test	

■ Versions

Article code	Sensors Chlorine	Sensors pH	Outputs Analogue
ME18-100-000	0	1	4
ME18-200-000	1	0	4
ME18-210-000	1	1	4
ME18-221-000	2	1	8

■ Related Products

Article code	Description
ME20-XXX-000	Water Controller ME 20 in wall mounting housing

■ Fittings and Water Sensors

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

■ Optional Modules

Article code	Description
ME15-0...20	4 analogue outputs 0 / 4...20 mA Proportional controller for control of dosing pumps and recorders/ recording devices
ME15-0...10V	4 analogue outputs 0...10 V
ME15-DIGITAL-IO	4 additional digital inputs 24 VDC or 4 additional outputs digital 24 VDC, 500 mA
ME15-USV	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
INFLEX06024A	Power supply 12 V 2.5 A
YUNP-07.0-12	NP battery 12 VDC 7.0 Ah for UPS operation (2 required)
ME18-19SUP	19 inch rack mounting kit ME 18