Our World is Water

SE control panels

Automation of EUROWATER
water treatment plants

EUROWATER
PURE WATER TREATMENT

Reliable, flexible and user-friendly automation

EUROWATER develops, manufactures, and markets complete water treatment systems for waterworks and industrial applications. A very important part is the automation, which has to match customer demands and our highly reliable equipment – now and in future.

On the basis of many years of experience we have designed a series of flexible

control systems integrating an operator panel and a programmable logic controller (PLC) to support the broad range of EUROWATER equipment.

The control panels offer a user-friendly HMI environment. All panels have large, illuminated displays for optimal operator control and monitoring. The menu structures are standardised and available

in several languages for easy and quick access to operating data and parameter settings. User-friendly keys on the panel front make interface possible without violating the IP54 protection class.

Modular system

Our control panels are based on a modular system guaranteeing reliable water treatment systems, short delivery times and competitive prices.

Standard hardware
The panels are available in three basic hardware models allowing the best possible selection of the right solution. All are based on an innovative PLC.

Flexible software
Programming is done by EUROWATER specialists ensuring optimal and reliable operation. The software has built-in flexibility such as several languages and upgrade options. Individual programs for more special projects are available on request.

Example of standard frame-mounted duplex softener with SE20 control panel.

SE10
The SE10 has only a single key for daily operation and monitoring. The panel is designed for controlling automatic stand-alone units with minimum requirements for automatic processes such as one-tank pressure filters type NSB and softeners, and two-tank softeners operated in parallel.

SE20
The SE20 and SE30 have 16 keys and four LEDs on the panel front for easy operation and monitoring. The SE20 is designed to control automatic stand-alone units with medium-level operating requirements such as our large pressure filters type TFB and duplex/triplex softeners.

SE30
The SE30 offers analog input/output and is designed to control our range of units with high-level operation requirements such as ion exchange demineralisation plants and RO with conductivity measurement.

Comprehensive system

We offer a comprehensive range of HMI/PLC control panels for our broad range of equipment within filtration, ion exchange, membrane filtration, and EDI. There is a one-to-one match between water treatment unit and panel.

Filtration

Softening

Programmable

Demineralisation

External communication

Polishing

On-line measurement

Ready for integration

You benefit from the option to control and monitor each individual unit locally. Furthermore, you benefit from the fact that our panels are ready for integration to a planned or already existing central SCADA system that supports the MODBUS protocol.

Central PLC Control Cabinet

The control cabinet can be supplied as a separate part or pre-installed as a 100% integrated part of the complete solution.

EUROWATER offers central PLC control cabinets to monitor and control a complete water treatment plant. A central PLC control cabinet serves as the motor control center (MCC) and can include programmable controllers, a touch screen operator interface, variable frequency drives and metering and may also be the electrical service entrance for the building. The last-mentioned is typical the case in our waterworks installations. Central PLC control cabinets supplied to industrial companies and power plants often include communication through Ethernet, Profibus or Profinet. Also GMS communication is available. The systems offer larger application flexibility and meet the most stringent industry standards.

Service

Optimal operation of your water treatment plant can be guaranteed through a service agreement about preventive service with one of our local sales and service offices. This way you extend the life of your plant and you always keep the maintenance costs low.

Alarms
The panels can notify about preventive service. After a predefined time interval - matching the complexity of the system and the customer demand - the service LED is on. Then you know it is time to call preventive service.

Attendance to acute problems is also made convenient through our panels. You need to take action when the alarm LED is on. In the display you are immediately informed about the specific alarm. As standard option it is possible to receive and send messages between the panel and your mobile phone.

International service network
EUROWATER is an international group with subsidiary companies in 13 countries servicing our customers through 20 local offices. Moreover, the company is repre-

sented in most of the other European countries through dealers that all are water treatment specialists.

Technical specifications

	SE 10	SE 20	SE 30
Dimensions			
Height, mm	146	246	246
Width, mm	196	196	196
Depth, mm	79	95	95
Weight, kg	0.8	1.5	1.5
Display			
Type	STN LCD	STN LCD	STN LCD
Back light	LED	LED	LED
Size	2x16	2x16	2x16
Keypad			
Number of keys	1	16	16
LEDs	none	4	4
Communication			
MODBUS	optional	optional	optional
General			
Power supply	24VDC/17VAC	24VDC	24VDC
I/O expansion option	none	up to 64 additional I/Os	up to 64 additional I/Os
Clock function	real-time clock	real-time clock	real-time clock
Protection class	IP54	IP54	IP54

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