# EASYPRO water sampling station for industrial applications



## Reliable and individual

Designed to meet your every need, the **EASYPRO** system monitors and controls a range of water parameters in your industrial application.

The **TOPAX® MC** multi-channel controller installed* in the **EASYPRO** subjects the water parameters to constant measurement, keeping them within the target range. It enables you to control a large number of actuators and permits easy and intuitive operation. The multi-coloured LEDs provide an optical warning if the water parameters leave the target range. Automatic continuous recording of the water parameters and depiction of their development permit simple diagnosis.

## General

- LED illumination of the fittings
- Monitors and controls a range of water parameters
- Continual recording of the water parameters
- With cover
- Compact design
- Including TOPAX® MC multi-channel controller
- Individually-configurable system through modular structure
- Low water consumption
- Connector system for water connections

* Our standard versions are delivered with the **TOPAX® MC** multi-channel controller. Use the match code ordering system to order the **EASYPRO** water sampling stations without the **TOPAX® MC**.

Dosing | *Liquids*
Conveying | *Gases*
Control | *Systems*

## Technical data

| EASYPRO | | | 1 | 2 | 3 | 4 | CS 2, 3, 4 | 1/1 | 2/2 |
|---|---|---|---|---|---|---|---|---|---|
| Sample water require-ment | for CS120 excess chlorine measuring cell | l/h | 45 approx. | | - | | | 45 approx. | - |
| | for all other measuring cells | l/h | | 30 approx. | | | | - | 2 x 30 approx. |
| Sample water inflow and discharge | | mm | PE hose 6/8 + stop valve with G1/4 connection | | | | | | |
| Pressure resistance | for diaphragm-covered measuring cell | bar | max. 6, air gap required | | | | | | |
| | for all other measuring cells | bar | max. 6 | | | | | | |
| Pressure loss in the water sampling station | | bar | 0.3 approx. | | | | | | |
| Mesh size sample water filter | | µm | 300 | | | | | | |
| Voltage supply | | | 100 – 240 V AC, 50/60 Hz | | | | | | |
| Power consumption | | W | max. 20 | | | | | | |
| Analogue outputs for remote transmission | | | 4 x 0/4 – 20 mA, working resistance max. 500 Ω | | | | | | |
| Disturbance variable input | | mA | 0/4 – 20 | | | | | | |
| Interfaces | | | Ethernet TCP/IP or RS485 Modbus RTU (optional) | | | | | | |
| Protection class | | | IP65 (electronic controller) | | | | | | |
| Ambient temperature | | °C | -5 to +45 (no exposure to direct sunlight) | | | | | | |
| Control characteristic | | | P, PI, PID or PD behaviour, control direction selectable with disturbance variable feed forward, 2-side control selectable | | | | | | |
| **Measuring inputs (depending on version)** | | | | | | | | | |
| Number of measuring inputs | | | 1 | 2[a] | 3[b] | 4[c] | 2 – 4 | 2 x 1 | 2 x 2[a] |
| Bromine | Diaphragm-covered measuring cell | mg/l | 0 – 5[e] | | | | | - | |
| Free chlorine | Amperometric 3-electrode measuring cell with potentiostat (DMZ3.1) | mg/l | 0 – 2 or 0 – 15[d,h] | | | | - | 2 x 0 – 2 or 2 x 0 – 15[d,h] | |
| | CS120 excess chlorine measuring cell | mg/l | 0 – 10[d] | - | | | 0 – 10[d] | - | |
| | Diaphragm-covered measuring cell | mg/l | 0 – 10[e] | | | | | - | |
| Chlorine dioxide | Amperometric 3-electrode measuring cell with potentiostat (DMZ3.1) | mg/l | 0 – 2 or 0 – 15[d,h] | | | | - | 2 x 0 – 2 or 2 x 0 – 15[d,h] | |
| | CS120 excess chlorine measuring cell | mg/l | 0 – 10[d] | - | | | 0 – 10[d] | - | |
| | Diaphragm-covered measuring cell | mg/l | 0 – 2[e] | | | | | - | |
| Total chlorine | Diaphragm-covered measuring cell | mg/l | 0 – 10[e] | | | | | - | |
| Ozone | Diaphragm-covered measuring cell | mg/l | 0 – 2[e] | | | | | - | |
| pH value | pH single-rod measuring cell | pH | 2 – 12[f] or 0 – 14[f] | | | | | 2 x 2 – 12[f] or 2 x 0 – 14[f] | |
| Redox value | Redox single-rod measuring cell | mV | -1000 to +1000 | | | | | 2 x -1000 to +1000 | |
| Conductivity conductive | Conductivity measuring (k=1) | mS/cm | 0 – 20[g] or 0 – 100[g] | | | | | 2 x 0 – 100[g] | |
| Chlorite | Diaphragm-covered measuring cell | mg/l | 0 – 2[e] | | | | | - | |
| Hydrogen peroxide | Diaphragm-covered measuring cell | mg/l | 0 – 200[e] | | | | | - | |
| Temperature | Pt100 | °C | 5 – 45 (standard version) 5 – 60 (configurable) | | | | 0 – 45 | 5 – 45 (standard version) 5 – 60 (configurable) | |
| **Output modules (depending on version)** | | | | | | | | | |
| Number of output modules | | | up to 4 | | | | | | |
| Servomotor relay | | | 2 x 230 V AC, 5 A (ohmic load) | | | | | | |
| | | kΩ | Potentiometer feedback: 1 – 10 | | | | | | |
| Servomotor 20 mA | | | Constant 0/4 – 20 mA output | | | | | | |
| | | | Servomotor with 20 mA feedback | | | | | | |
| Relays | | | 2 x 230 V AC, 5 A (ohmic load) | | | | | | |
| Relay high current | | | 2 x 230 V AC, 8 A (ohmic load) | | | | | | |
| Optocoupler | | | 2 x 80 V DC, 5 mA | | | | | | |
| Digital universal | | | selectable: 2 x 230 V AC, 5 A (ohmic load) relays or 2 x 80 V DC, 5 mA optocouplers | | | | | | |

[a] A temperature sensor can also be connected.
[b] Additionally, up to two temperature sensors can be connected.
[c] Additionally, up to three temperature sensors can be connected.
[d] Dependant on the measuring cell transconductance.

[e] Dependant on the measuring cell.
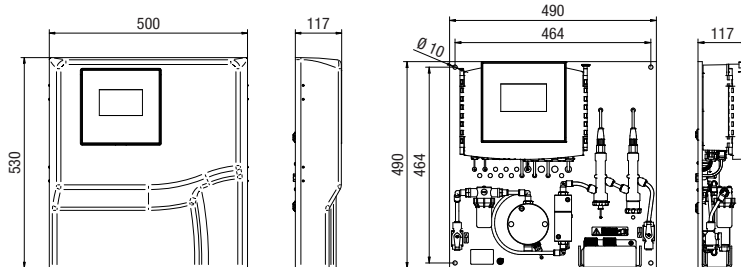[f] Dependant on the single-rod measuring cell.
[g] Dependant on the configuration, corresponds to approx. 0 – 1 % or 0 – 5 % salt content
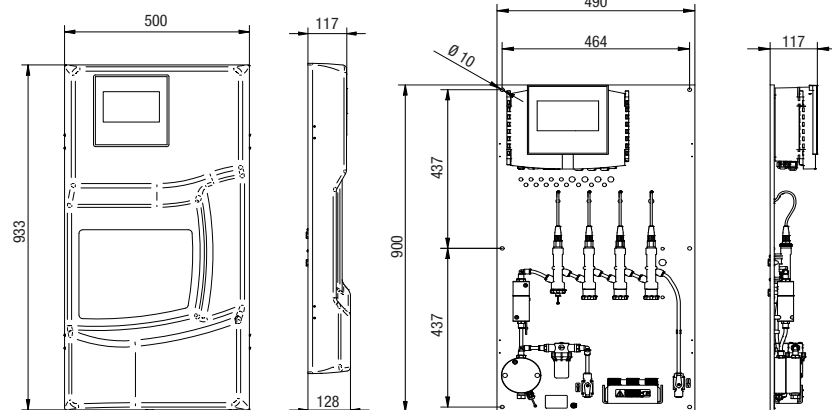[h] Dependant on the input module.

## Dimensions
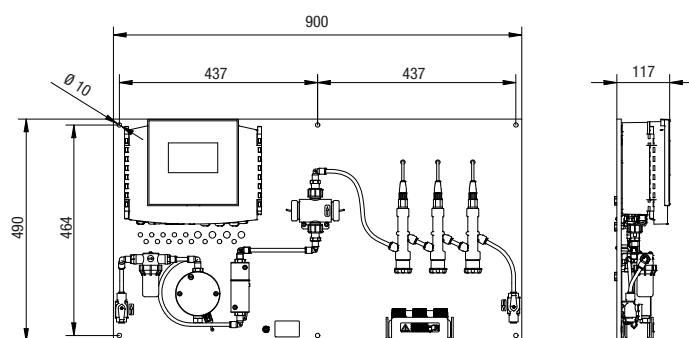
All dimensions in mm

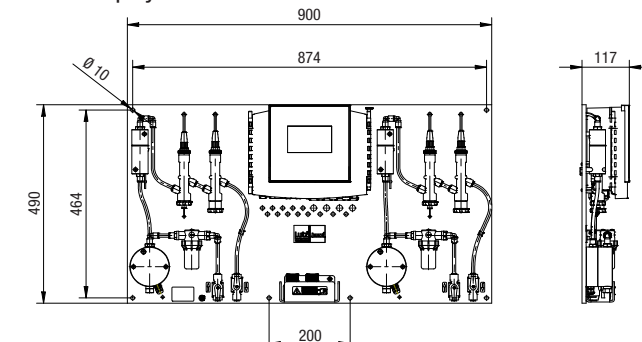### EASYPRO 1 & 2
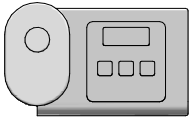with 5" display



### EASYPRO 3 & 4
with 7" display



### EASYPRO CS 2, 3 & 4
with 5" display (CS 2) or with 7" display (CS 3 & 4)



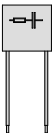### EASYPRO 1/1 & 2/2
with 5" display

### Photometer

- Internal memory for 16 data sets
- Automatic switch off
- Real-time clock and date
- Adjustable functional display
- Illuminated display
- Water-tight (analogue IP68, 1 hour at 0.1 metre)

### buffer solutions

- pH value: pH 6.80 and 9.27
- Redox value: 468 mV
- Conductivity: 12.88 mS/cm and 50 mS/cm

### Switching device suppression module

- -20 to +70 °C
- 22 × 27 × 11 mm
- 50 W (VA)

### Visualisation Software TopView 4

- Visualisation and monitoring of the EASYPRO water sampling station
- Retrieval and display of data from the browser for up to 10 users with user-specific view configurations
- Pre-installed TopView license and operating system on an energy-saving microcomputer
- Connection to controller via Modbus TCP network
- Simple configuration and remote access via LAN/WLAN
- Secure connection through VPN and https
- Archiving of all alarms issued and all measured values
- Automatic daily log
- Operating log (optional)

## WANT TO LEARN MORE?

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