

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.

* 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**.

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

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.

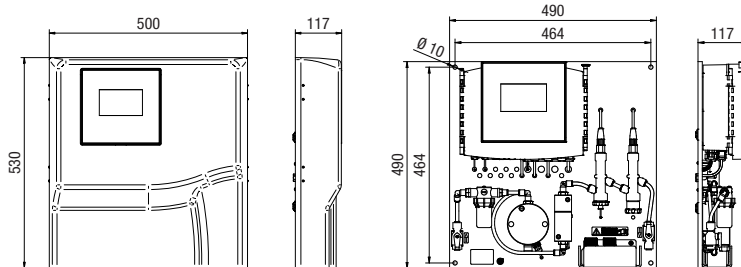
^g) Dependant on the configuration, corresponds to approx. 0 – 1 % or 0 – 5 % salt content

^h) Dependant on the input module.

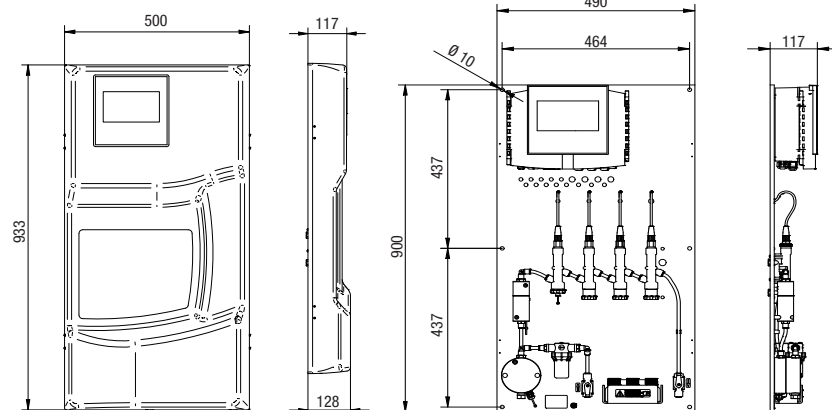
Dimensions

All dimensions in mm

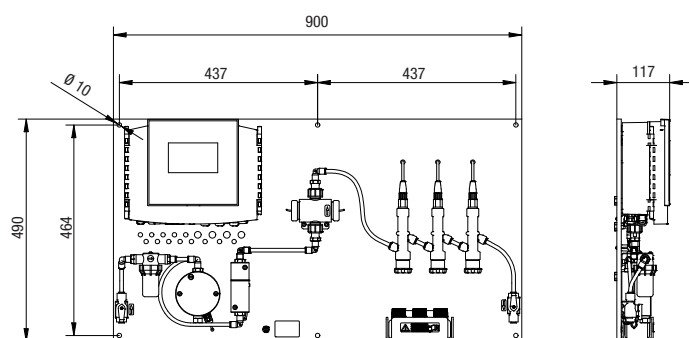
EASYPRO 1 & 2 with 5" display



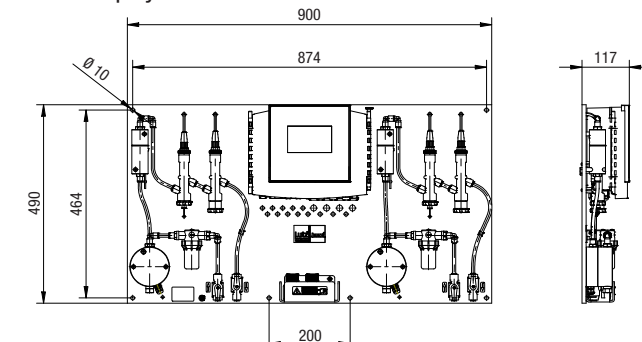
EASYPRO 3 & 4 with 7" display



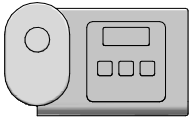
EASYPRO CS 2, 3 & 4 with 5" display (CS 2) or with 7" display (CS 3 & 4)



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



Accessories



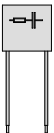
Photometer

- 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)