

Water Sampling Station EASYPRO® for industrial applications

The TOPAX® MC is Lutz-Jesco's latest multi-channel controller. Its modular design makes it an adaptable and extremely effective solution for all your measurement and control technology requirements.

Whether you need to measure chlorine dioxide, chlorine, the pH value, the Redox (ORP) value or the pH value four times, the modular design permits any combination.

The outputs can also be freely selected. Users can actuate the dosing pumps using an optocoupler or relay and servomotors by using a relay or a 20 mA output.

The high-resolution 5-inch color display has a user-friendly operating interface - simple touch control and intuitive navigation menu that can be set to multiple languages.

You can use the four analogue outputs (0/4 – 20 mA) or the network capability to transfer the measured values to a web browser or a tele-maintenance point. A programmable interval timer can be used to set an automatic alert for wear-related sensor change.

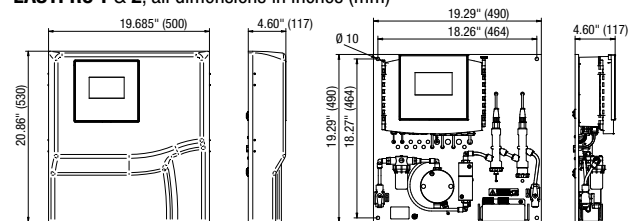
Features

- Ethernet TCP/IP or RS485 Modbus RTU (optional) interfaces
- Up to 4 measuring inputs
- Measure any combination of:
pH value, free chlorine, total chlorine redox value, chlorite, hydrogen peroxide, chlorine dioxide, and bromine
- Power supply - 100 - 240 V AC, 50/60 Hz
- Ambient temperature 23 - 113 °F
- Protection class - IP65

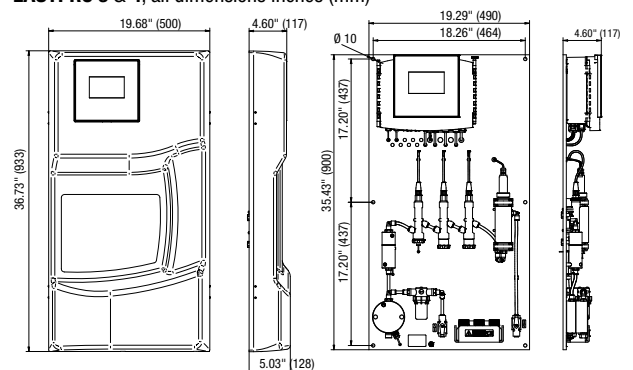


Dimensions

EASYPRO 1 & 2, all dimensions in inches (mm)



EASYPRO 3 & 4, all dimensions in inches (mm)



Technical Specifications

EASYPRO			1	2	3	4
Sample water requirement	with CS120 excess chlorine measuring cell	l/h	45 approx.			
	with all other measuring cells	l/h	30 approx.			
Sample water inflow and discharge		mm	PE hose 6/8 + stop valve with G1/4 connection			
Pressure resistance	with diaphragm covered measuring cell	psi	max. 87, air gap required			
	with all other measuring cells		max. 87			
Pressure loss in the water sampling station		psi	4.35 approx.			
Mesh size sample water filter		µm	300			
Power 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		°F	23 to 113 (no exposure to direct sunlight)			
Control characteristic			P, PI, PID or PD behavior, control direction selectable with disturbance variable feed forward, 2-side control selectable			
Measuring inputs (depending on version)						
Number of measuring inputs			1	2*	3**	4***
Bromine	Diaphragm covered measuring cell	mg/l	0 – 5 (dependant on the measuring cell)			
Free chlorine	Amperometric 3-electrode measuring cell with potentiostat (DMZ3.1)	mg/l	0 – 15 (dependant on the measuring cell transconductance)			
	CS120 excess chlorine measuring cell	mg/l	0 – 10 (dependant on the measuring cell transconductance)			
	Diaphragm covered measuring cell	mg/l	0 – 10 (dependant on the measuring cell)			
Chlorine dioxide	Amperometric 3-electrode measuring cell with potentiostat (DMZ3.1)	mg/l	0 – 15 (dependant on the measuring cell transconductance)			
	CS120 excess chlorine measuring cell	mg/l	0 – 10 (dependant on the measuring cell transconductance)			
	Diaphragm covered measuring cell	mg/l	0 – 2 (dependant on the measuring cell)			
Total chlorine	Diaphragm covered measuring cell	mg/l	0 – 10 (dependant on the measuring cell)			
Ozone	Diaphragm covered measuring cell	mg/l	0 – 2 (dependant on the measuring cell)			
pH value	pH single-rod measuring cell	pH	2 – 12 or 0 – 14 (depending on the single-rod measuring chain)			
Redox value	Redox single-rod measuring cell	mV	0 – 1000			
Chlorite	Diaphragm covered measuring cell	mg/l	0 – 2 (dependant on the measuring cell)			
Hydrogen peroxide	Diaphragm covered measuring cell	mg/l	0 – 200 (dependant on the measuring cell)			
Temperature	Pt100	°F	41 – 113			
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)			
Optocoupler			2 x 80 V DC, 5 mA			

* A temperature sensor can also be connected. ** Additionally, up to two temperature sensors can be connected. *** Additionally, up to three temperature sensors can be connected.