

Type:
P6.02



FLS CHEM X3 P6.02 pH/ORP Monitors and Controllers are designed for a wide range of application and to work with different kind of pH and ORP electrodes. Automatic buffer recognition allows an easy and mistake-proof pH and ORP electrode calibration. A complete choice of input/output options, together with manual or automatic temperature compensation and an easy-to-use software, guarantee customized setups for any process to be controlled.

Main Features

- Configurable for either pH or ORP.
- Backlit alphanumeric LCD.
- Automatic evaluation of electrode performance.
- Automatic recognition of calibration buffer.
- Automatic or manual temperature compensation.
- Two programmable relays for external device control.
- Programmable alarms.
- Easy-to-use software.
- Removable terminals.
- Output simulator.

Applications

- Water & Wastewater treatment.
- Water quality monitoring.
- Swimming Pools and Spas.
- Neutralization systems.
- Scrubber control.
- Surface finishing.
- Heavy metal removal and recovery.
- Mineral water.
- Bleach production.
- Pulp bleaching.

Technical Features

PH/ORP Monitor and Controller	Part No.	Power Supply	Electrode Input	4-20 mA Output	Relay Output	Mounting
	P6.02.P1	24 VAC/DC	pH or ORP, Temperature	1	2 - low, high, blinking prop. pulse, continuing prop. pulse, off	Panel Mounting
	P6.02.W1	24 VAC/DC	pH or ORP, Temperature	1	2 - low, high, blinking prop. pulse, continuing prop. pulse, off	Wall Mounting
	P6.02.W2	110/230 VAC	pH or ORP, Temperature	1	2 - low, high, blinking prop. pulse, continuing prop. pulse, off	Wall Mounting

Connections to CHEM X3 electrodes

PH Electrodes

All conductivity sensors attend on CHEM X3 catalogue.

ORP Electrodes

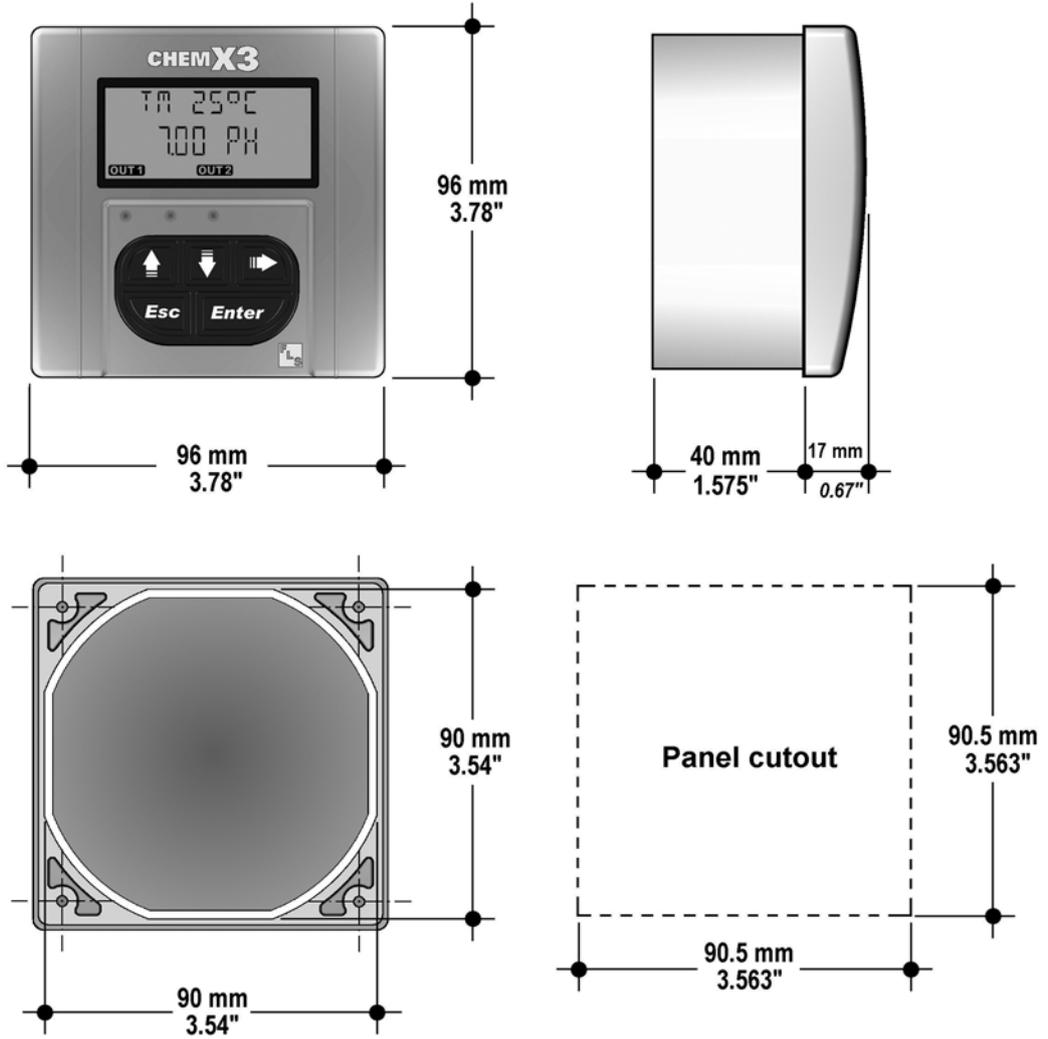
All conductivity sensors attend on CHEM X3 catalogue.

Preamplifiers

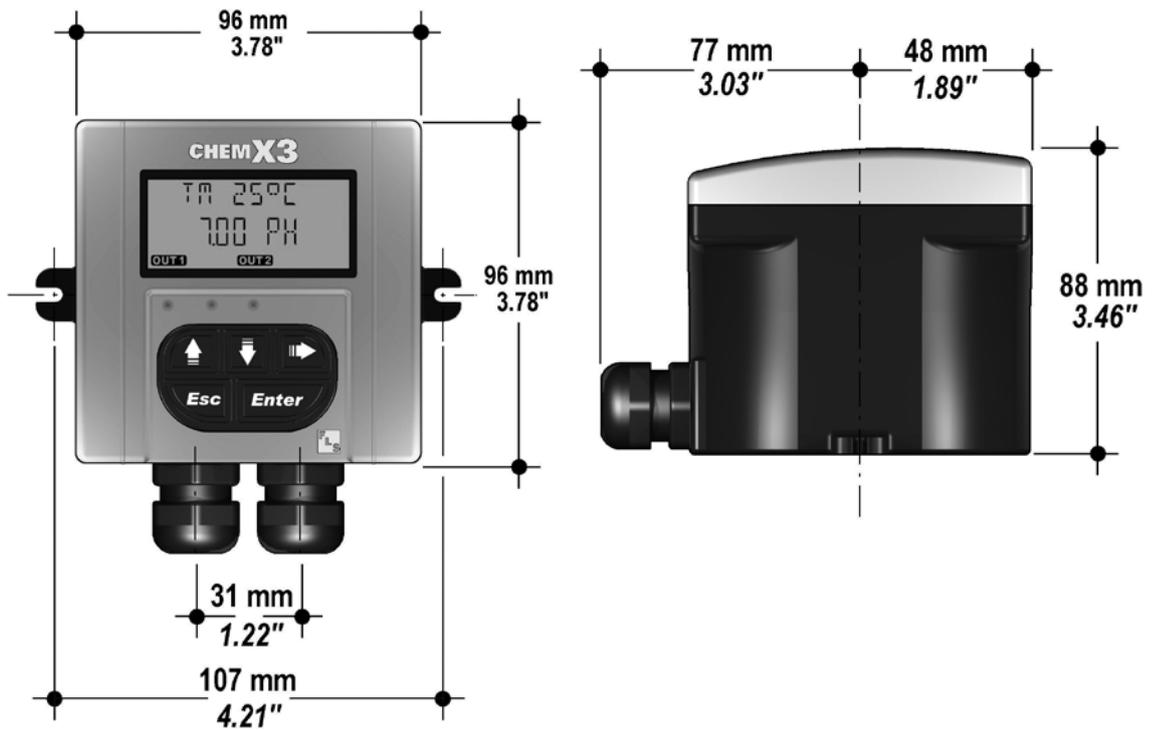
PHAMP1.

Please refer to individual sections for more information.

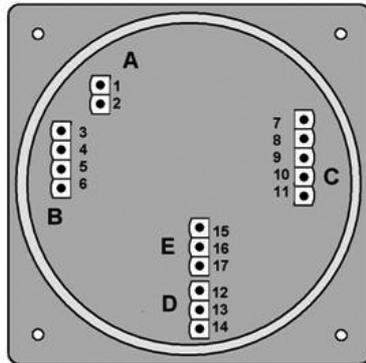
Dimensions Panel mount



Wall mount



Rear Terminal View



1	+ Vac/dc	A	
2	- Vac/dc		
3	+ HOLD	B	
4	- HOLD		
5	+ LOOP		
6	- LOOP		
7		C	
8			
9			
10	+ IN	D	
11	- IN		
12	NC	E	
13	COM		
14	NO		
15	NC	E	
16	COM		
17	NO		

Technical Data

General

- Materials:
 - Case: PC
 - Panel gasket: Neoprene
 - Wall gasket: EPDM
 - Keypad: 5-button silicone rubber.
- Display:
 - 3 line LCD: 2 x 12 alphanumeric lines + 1 icon line
 - Update rate: 1 second
 - Contrast: User adjustable with 5 levels
- Enclosure: IP65 front.
- pH monitor
 - Sensor Input range: -2÷16 pH
 - Accuracy: ± 0.01 pH
- Redox monitor
 - Sensor Input range: ± 2000 mV
 - Accuracy: 1 mV
- Temperature Range: 0÷100°C with Pt100/Pt1000 three wires
- Temperature Accuracy: ± 1°C
- Temperature Resolution: 0.15°C

Electrical

- Supply Voltage: 24 VAC/DC ± 20%
- Current output:
 - 4...20 mA (±0.05%, ±0.01mA), isolated, fully adjustable and reversible
 - Max loop impedance: 500 Ω
- Relay output:
 - Mechanical SPDT contact
 - Contact 10A 250V
- Input Voltage: 15÷30 Vac/dc Optically isolated
- Protection Fuse: 150 mA (Regenerate).

Environmental

- Operating temperature: -10 to +60°C (14 to 158°F).
- Storage temperature: -15 to +80°C (5 to 176°F).
- Relative humidity: 0 to 95% non condensing.

Standards & Approvals

- Manufactured under ISO 9001 (Quality).
- Manufactured under ISO 14000 (Environmental Management).
- CE.

Ordering Data

CHEMX3 pH/ORP Controllers and Transmitters

Part No.	Description	Power Supply	Input	Output	Weight (gr.)
P.6.02	pH/ORP monitor and transmitter	24 VAC/DC	pH or ORP, Temperature	1 (4-20mA) 2 (Relay)	550
P6.02.P1	Panel mounting pH/ORP monitor and transmitter	24 VAC/DC	pH or ORP, Temperature	1 (4-20mA) 2 (Relay)	550
P6.02.W1	Wall mounting pH/ORP monitor and transmitter	24 VAC/DC	pH or ORP, Temperature	1 (4-20mA) 2 (Relay)	650
P6.02.W2	Wall mounting pH/ORP monitor and transmitter	110/230 VAC	pH or ORP, Temperature	1 (4-20mA) 2 (Relay)	750