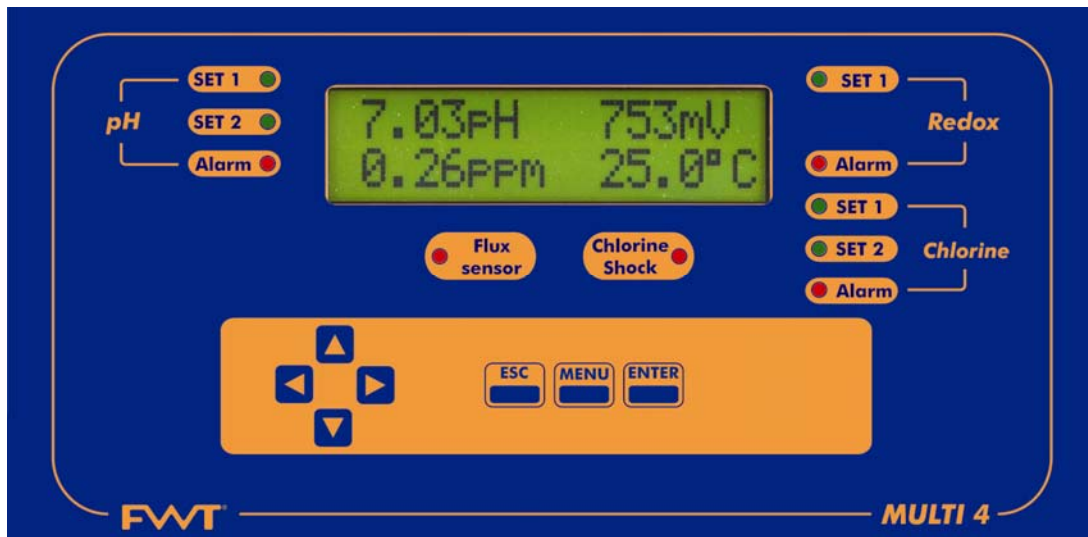




MULTI4 PHRXCLT is a multifunction measurement and control unit for chemical-physical parameters such as **pH**, **RX redox (ORP)**, **free chlorine (ppm)** or **Total chlorine** (latter only with potentiation static ion selective sensor), and **temperature**. The excellent versatility to control also dosing operation makes this unit particularly suitable for swimming pool and water treatment applications. Microprocessor technology, LCD display and LED status, grant top quality in programming operation, precision and continuous checking of the whole dosing and control system status. MULTI series dimensions are compact and the plastic enclosure offers IP65 rating and is suitable for wall mounting installation.

MAIN FIELDS OF APPLICATION:

- public swimming pool - private swimming pool
- whirlpool - potable water - waste water treatment



KEY FEATURES

- Multifunction controller: pH, free chlorine (ppm residual), RX redox (ORP), temperature
- Microprocessor and SMD technology
- LCD alpha-numeric back-lit display 2x16
- 5 independent Set-Point with 5 ON-OFF outputs contact free (2 for pH, 1 for RX, 2 for chlorine).
- 3 outputs 4÷20 mA output for proportional pumps with galvanic isolation.
- 3 outputs 4÷20 mA for data recorders with galvanic isolation.
- Hysteresis setting for ON-OFF set-points.
- Delay setting for ON-OFF set-point.
- 5 TTL proportional time/pause pulse output for each set point, to drive constant dosing pump
- 1 Alarm output for High/low measured values setting for each set-point.
- Block of relay outputs from external proximity switch signal.
- Temperature automatic compensation and reading through temperature probe.
- Plastic enclosure IP65 for wall mounting installation.
- Connection for pulse water meter to measure incoming fresh water addition.
- Upon request serial output RS232 and software for PC remote control.

TECHNICAL CHARACTERISTICS

	pH	Free chlorine	RX	Temperature
Measuring range:	0÷14.00 pH	0÷10.00 ppm	0÷2000 mV	0÷100 °C
Resolution ¹ :	0,01 pH	0,01 ppm	1 mV	0,1 °C
Linearity / Stability:	± 0,1 %	± 0,1 %	± 0,1 %	± 0,1 %
Reproducibility:	± 0,1 %	± 0,1 %	± 0,1 %	± 0,1 %
Hysteresis regulation:	± 0,05 pH	± 0,05 ppm	± 5 mV	-
Delay(adjustable):	0÷255 sec.	0÷255 sec.	0÷255 sec.	-
Zero ² calibration:	± 10%	± 20%	± 20%	
Gain ³ :	± 25%	± 20%	-----	
Operation mode:	Acid/Alkaline	Direct/Inverse	Oxidant/Reducing	-
Alarms adjustment:	High/Low pH value	High/Low Cl value	High/Low RX value	-
Input probes:	pH electrode	Amperometric Cl cells	RX electrode	FWT STEMP1or2
Electrodes input value:	10 ¹² Ω	-	10 ¹² Ω	-
Connections:	BNC connector	connections clamp	BNC connector	connection
Set-points:	2	2	1	-
Proximity switch:	it stops outputs operations in case of no water flow into the cell and/or the system			

*Free chlorine (chlorine residual)

1-Resolution: display resolution

2-Zero: potentiometer excursion adjustment from calibration point

3-Gain calibration: electrode adjustment gain

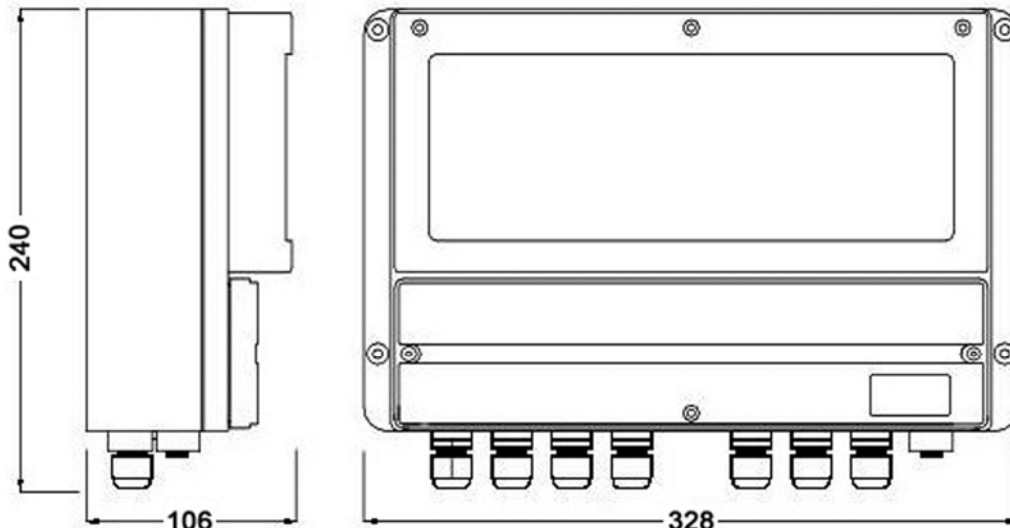
Outputs:	5 relay outputs:	Contact free 5A max 220 VCA with galvanic isolation to activate Constant (manual)/ON-OFF mode dosing pumps or other equipment.
	5 Pulse (timed) proportional outputs:	TTL proportional time pulses outputs with galvanic isolation to activate Constant (manual)/ON-OFF mode dosing pumps or other equipment.
	3 proportional mA:	4÷20 mA with galvanic isolation to drive proportional dosing pumps suitable to process remote mA signal
	3 proportional mA:	4÷20 mA with galvanic isolation output to drive a chart recorder 400 OHM
	1 main alarm output:	Alarm in case measured value is High or Lower then selected values.

Working temperature:	0÷50°C - Automatic temperature compensation and reading through sensor.
Power supply:	230V – Single phase – 50/60 Hz; available 24Vdc

Enclosure:	Protection rating:	IP65
	Material:	Polystyrene Plastic
	Front controls cover:	Polycarbonate transparent snap-in

NOTE: MULTI series is **NOT** provided with Chlorine cell, electrodes and probes which are available upon request.
 FWT di Tommaso Commonara declines any responsibility in case the controller is used with other brand probes and sensors.

DIMENSIONS :



Net weight: 1,80 KG
Gross weight: 2,20 KG