

Data Sheet



MAIN CHARACTERISTICS

- Measurement of pH and ORP
- Measuring of Temperature using the PT100/PT1000 probe
- Automatic Compensation of Temperature
- Programming key pad with 5 keys
- "CAL" Function Key to direct access to the calibration menu
- "GRAPH" Function Key to direct access to the graphs of measure
- LCD Graphic display 128x64 with background illumination
- Internal Data Logger (flash 4 Mbit) with the possibility of graphic and table visualisation of measurement trends
- PID adjustment
- Serial outlet RS485 MOD BUS RTU
- Data download on USB key (optional)
- 2 Programmable Analogical Outlets
- 2 Relay Outlets for intervention thresholds
- 1 Relay Outlet for Instrument Anomaly Alarm or Temperature Set Point
- 1 Relay Outlet for Probe Washing or Temperature Set Point
- 1 Digital Entrance for disabling of doses



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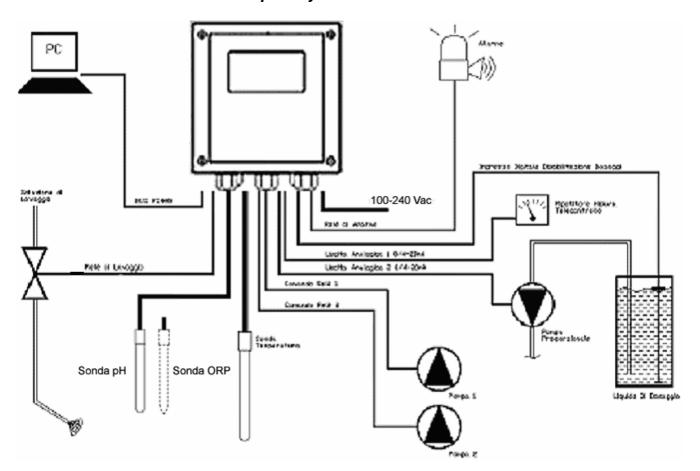
> Main hardware characteristics of the electronic device

The hardware structure of this periphery is based on the adoption of extremely new CPU CMOS with 8 bits developed specifically for the execution of the so-called "embedded" applications.

The card uses an EEPROM to store the Set-up data and flash memories for storage of the archives of historical data and LOG files of events.

The Card has 1 RS485 gate (opto-isolated) for local networks used for connections with local communication devices (configuration computer, terminals and remote controls etc). The card integrates a Real Time Clock (clock with date) that allows the software to storage figures in a chronological order.

- > The device has been designed to be fitted onto a panel, and is built with IP66 protection panel.
- Controller maximum capability



Characteristics of the measure

Measurement Ranges /	Measurement Ranges / pH : 00.0 ÷ 14.0pH Resolution ± 0.01 pH Precision ± 0,2% f.s.	
Resolution / Accuracy	ORP: ± 1500mV Resolution ± 1mV Accuracy: ± 0,2% f.s.	
	Temperature: 0.00 ÷ +50,0 °C Resolution:± 0,1 °C Accuracy: ± 1% f.s.	
• • • • • • • • • • • • • • • • • • •	Automatic with a sensor connected to the unit, manual with key pad setting	
Compensation		
Visualization	Simultaneous values of the Conductivitymeasure: numeric + bargraph. Temperature values and anolgue outputs values in scrolling.	
	Graphic icons showing: digital outputs' state, data storage, washing cycle,	
	alarms	



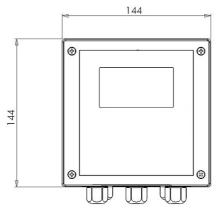
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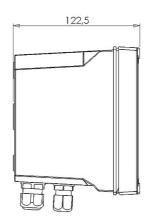
Software features and functions			
	Internal Flash 4Mbit Memory (near to 16000 records).		
Data storage	Records interval: 01:00 ÷ 99:99 min		
	Type: Circular (F.I.F.O.) or Filling		
	Possibility of visualization of the stored data in tabular and graphic form,		
	with indication of maximum, minimum and average values of the selected		
	period.		
	Zoom function Functions: P – PI – PID. Activated on the analogue or the digital output.		
PID Regulation	Proportional range: 0 ÷ 500%		
	Time of integral: $0:00 \div 5:00$ min Time of derivative: $0:00 \div 5:00$ min		
	-		
0. A a la O tt-a	Output 1 programmable for pH/ORP		
2 Analogue Outputs			
2 Active Digital	Output limits freely programmable between measuring ranges.		
2 Active Digital			
Outputs	pause/working time setting: 000 ÷ 999 Seconds PID Regulation (only on Set point 1): Pulse Frequency or PWM		
	Reporting: Instrumental anomalies, minimum, maximum, set point's delay,		
	permanence time (live check)		
	Delay time: 00:00 ÷ 59:99mm:ss at minimum steps of 15sec		
Alarm digital output	Permanence time: 00:00 ÷ 99:99 hh:mm		
	Set Point disableing (in case of alarm): Enable / Disable		
	Relays functioning: Closed / Open		
District control for	Programming of the time leg		
Digital output for	Frequency: 00:00 ÷ 24:00 hh:mm minimum time leg: 15 min		
electrode washing	During the washing phase, all digital and analogue outputs are freezed		
Digital input	To disable dosages or activate washing cycle		
RS485 Serial output	For set-up and real-time data acquisition from remote or for stored data		
113403 Serial Output	download (using a dedicate-SW) .		
	MODBUS RTU communication protocol		
Manual controls	Possibility to simulate all the analogue and digital outputs using the		
	keyboard		
Viouslination	Hardware Features LCD graphic backlit Display STN 128x64		
Programming			
Data Logger			
Data Logger	0 / 4.00 ÷ 20.00 mA		
	Calvania apparation: 1KV Ontoinalator		
Analogue Outputs	Maximum load 500 Ohm		
	Second Alarm output: NAMUR 2.4 mA (with 4/20mA Range)		
	Switching Relays		
Digital Outputs			
3	Usable as NO contact		
D: -: 1 In 1	Active and already supplied		
Digital Input	Possibility to link with a 3 wires - inductive sensor		
Carial Outent	BS485 with 1200:38400 Band Bato programmable speed		
Serial Output	MOD BUS RTU Protocol		
Operating conditions	Operating temperature 0÷50 ℃		
	Humidity 10-95% (non-condensing)		
	Power supply 90÷260Vac/dc 50-60Hz – (Optional 24Vac/dc)		
Power Supply/	- Transformer isolation4KV		
Electrical protections			
	- Electrical Protection: EMI / RFI CEI-EN55011 - 05/99		



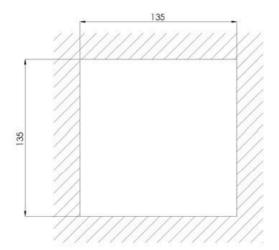
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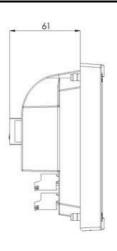
> Mechanical dimensions





Mechanical Dimensions	4238 Wall IP66
Dimensions (L x H x P)	144x144x122,5mm
Mounting thickness	122,5mm
Material	Grey ABS RAL 7045
Mounting	Wall
Weight	1 Kg
Front Panel	UV resistant Polycarbonate

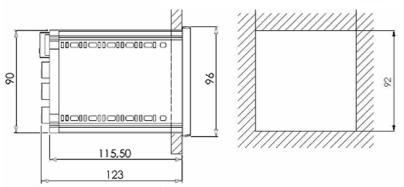




Mechanical Dimensions	4238 Panel 144x144
Dimensions (L x H x P)	144x144x86,5mm
Mounting thickness	61mm
Material	Grey ABS RAL 7045
Mounting	Panel
Weight	0,7 Kg
Front Panel	UV resistant Polycarbonate

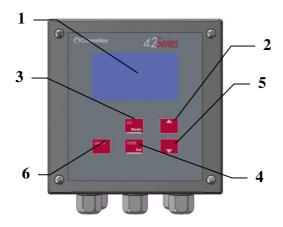


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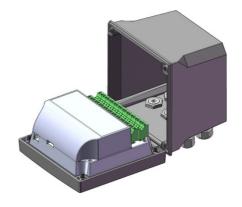


Mechanical Dimensions	4238 Panel 96x96
Dimensions (L x H x P)	96x96x115,5mm
Mounting thickness	130mm
Material	Black ABS
Mounting	Panel
Weight	0.7 Kg
Front Panel	UV resistant Polycarbonate

> Controls, indicators and connections



Front panel, wall mounting version



Access to terminal box

- 1. LCD Display
- 2. UP
- 3. ESC
- 4. ENTER
- 5. DOWN
- 6. GRAPH

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