

HYDROGUARD® HG-102

pH and Redox (ORP) Analyzer and Controller for the Perfectly Balanced Swimming Pool

Automatic, Real-Time Chemical Balancing

The **HYDROGUARD® HG-102** is a reliable and easy to use pH and redox (ORP) proportional controller. pH and chlorine dosing are automatically activated according to predefined monitoring levels to balance the pool

Excellent Value

Best value for money on the market; an affordable solution to maintaining proper pool performance.

Cost Effective Operation

Quick and easy installation along with seamless operation make the HG-102 an ideal tool for balancing water in swimming pools. Low maintenance and long-term stability are time-saving benefits that enable maintenance personnel to serve more clients in less time.

Web-Based Remote Monitoring

The HYDROGUARD® HG-102 wireless communication offers remote alarm monitoring and control. This is the ideal solution for managing pool conditions while increasing safety and reducing site visits.

Automated monitoring and dosing saves chemicals



- **ORP: 0-999 mV**
- **pH: 6 - 10**
- **Accurate and reliable measurements**
- **Automated control**
- **Simple user-friendly menus and functions**
- **Easy maintenance**
- **Optional remote web view and control**

Your Water Quality Partner



HYDROGUARD® HG-102 SPECIFICATIONS

MECHANICAL DATA	
Dimensions (controller)	340mm x 220mm x 120mm 14" x 7" x 5" (W x H x D)
Cable entries	Pg 9 Cable Glands
Ingress protection	IP 65 (NEMA 4 equivalent)
Max. ambient temperature	2°C to 55°C (35.6°F to 131°F)
Weight approx.	4.0 kg (8.8 lbs)
ELECTRICAL CONNECTION	
Power supply	110-115 VAC 60Hz; 210-230 VAC 50Hz
Power consumption	Approx. 5.0 VA
DATA SERIAL OUTPUT SIGNAL OUTPUT	
RS 485	Standard half-duplex
RELAYS	
ORP (Chlorine)	110-230V 2A Max
pH 110-230V	110-230V 2A Max
DISPLAY	
2x7 Segment Red display 3 digits	ORP and pH
Indication functions	Set point/cal/feed rate mode for chlorine and pH and dosing indication.
pH MEASUREMENT	
Measurement range	6-10
Sensor	Ceramic diaphragm and gel filling
ORP (REDOX) MEASUREMENT	
Measurement Range	0-999mv
Sensor	Ceramic diaphragm and gel filling
FLOW REQUIREMENTS	
Measuring cell flow rate	35L/h - 60l/h
Inlet pressure	0.3 bar (4.4 psi) to 1 bar (14.5 psi)
Outlet pressure closed cell	Up to 0.9 bar (13 psi)
Flow switch type	Rotary switch
FLOW MEASUREMENT	
Frequency input	via I/O card
or	
4-20mA input	via NTU card
Measurement range	0-1,000 m3/hour
pH / ORP VALUE CONTROL	
Control function	Proportional or On/Off
Set value function	Pulse length proportional controller



www.blueitechnologies.com

Blue I Water Technologies Ltd., 18 Ha'melacha St., Rosh Ha'ayin 4809148, Israel
 Tel: +972-9-7680004, Fax: +972-9-7652331, e-mail: info@blueitechnologies.com
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