



Amperometric Free or Total residual chlorine analyzer for water quality analysis and control

Customized Multi-Parameter System

WATERGUARD® WG-602 adapts to each site's unique needs by allowing any combination of measurements in a single system, including: Amperometric free chlorine, Amperometric total chlorine, PH, ORP, temperature, conductivity, turbidity, and flow making this a complete and flexible solution to fit any application.

Reliable wired or wireless communication

Wireless communication allows for remote alarm monitoring and control, increasing safety and reducing site visits. The WATERGUARD® WG-602 parameters and alarms can be viewed from any internet connection or even a mobile phone. 4-20ma based indications and dry contact relay options extend connectivity options allowing the use of a PLC or SCADA system.

Reduced total cost of ownership

Eliminating the need for manual testing and control of residual chlorine levels, WG-602 not only saves time but also enhances precision to reduce chemical overdosing and waste. The device can control 2 chlorine dosing systems simultaneously allowing for back-up systems to be activated automatically while ensuring constant operation and safety.

Proven Results

Based on WATERGUARD®'s proven platform, WATERGUARD® WG-602 delivers reliable measurement and control with automatic compensation for PH and temperature for a large range of applications.

Applications

- Potable water
- Process water
- Drinking water
- Cooling towers



- ➔ Accurate and reliable measurements
- ➔ Multiple parameters in a single system
- ➔ Free chlorine 0-2ppm, 0-10ppm, 5-200ppm
- ➔ Total chlorine 0-10ppm
- ➔ Turbidity 0-100 NTU (optional)
- ➔ Conductivity 0-10,000µS/cm (optional)
- ➔ Automatic PH and temperature compensation
- ➔ Simple user friendly menus and functions



WATERGUARD® WG-602

SPECIFICATIONS

Mechanical Data	
Dimensions (controller) (W x H x D)	14" x 7" x 5.1" (340 x 2200 x 130mm)
Dimensions (mounting board)	31.5" x 21.7" x 0.2" (800 x 550 x 5mm)
Cable Entries	PG9 Cable Glands
Max Ambient Temperature	35.6°F to 122°F (2°C to 50°C)
Approx. Weight	22lbs. (9KG)
Electrical Connection	
Power Supply	100-120VAC / 1A 200-230VAC / 0.5A 50-60Hz 12 volts DC
Power Consumption	Approx. 60VA
Power supply for RTC	3.6v lithium battery (CR2032)
Data Output	
RS-485	Standard
4-20ma	2 Standard / 4 or 6 Optional
Relays	
CL (chlorine) set point 1	Dry Contact 250VAC/DC 4A MAX
CL (chlorine) set point 2	Dry Contact 250VAC/DC 4A MAX
pH 1	Dry Contact 250VAC/DC 4A MAX
Turbidity Control*	Dry Contact 250VAC/DC 4A MAX
General Alarm	Dry Contact 250VAC/DC 4A MAX
Temperature control	Dry Contact 250VAC/DC 4A MAX
Display	
5.5" Large Graphic Monochrome Display	
Chlorine Measurement	
Measurement	Free or Total Chlorine
Sensor	Passive operated sensor with gold cathode and silver chloride anode
pH Range	8-Apr
Measurement Range	0.01-2ppm 0.05-10ppm 5-200ppm
Max. Inlet Operating Pressure	14.5psi (1 BAR)
Flow Rate	0.132GPM-0.176GPM (30-40LPH)
Working Temperature	33.8°F - 113°F (1°C - 45°C)
Material	PVC-U, PTFE, PBT, PVDF
Ph Measurement*	
Measurement Range	0-14
Sensor	Ceramic diaphragm with gel filling
Input Impedence	0.5 - 1.12KΩ
ORP (REDOX)* measurement	
Measurement Range	0-2000mv
Sensor	Ceramic diaphragm with gel filling

Temperature* measurement	
Sensor	PT-100
Measurement Range	32°F - 212°F (0°C - 100°C)
Measuring Cell	
Working Temperature	33.8°F - 113°F (1°C - 45°C)
Flow Requirements	
Measuring Cell Flow Rate	9-16 GPH (35-60 lph)
Inlet Pressure	4.4-14.5 psi (0.3-1 BAR)
Outlet Pressure Closed Cell	Up to 13 psi (0.9 BAR)
Flow Switch Type	Inductive Proximity Sensor with Stainless Steel Float
Flow Measurement	
Frequency Input	Via I/O card
or	
4-20ma Input	Via NTU Card
Measurement Range	0-256,000GPH (1-1000 m3/H)
pH Control	
Control Function	P or PI or ON/OFF or Frequency
Characteristics	Normal / Inverted
Relay Function	Pulse Length proportional controller Pulse Frequency proportional controller
ORP (REDOX) Control	
Control Function	High Alarm as Chlorine Override
Chlorine Control #1	
Control Function	P or PI or ON/OFF or Frequency
Proportional Band	YES
Relay Function	Pulse Length proportional controller Pulse Frequency proportional controller
Chlorine Control #2	
Control Function	ON / OFF
Proportional Band	NO
Relay Function	Pulse Length proportional controller Pulse Frequency proportional controller
Data Logger	
Memory	256Kbit
Lines	1000
Recording Interval	1-360 min
Event Logger	YES
Total Relay On Time	YES
Security	
Operator Password	YES
Technician Password	YES
*Optional Feature	

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