

## HG-602 High-Chlorine Water Quality Analyzer



A simple and user-friendly analyzer that is specifically designed to provide accurate control of applications with chlorine levels as high as 200ppm.

### Customized Multi-Parameter Systems

The HG-602 High-Chlorine adapts to each site's unique needs by allowing any combination of measurements in a single system including: Free Cl (5 to 200 ppm amperometric), pH, Temperature, Turbidity, Conductivity and Flow. A complete, flexible solution to fit your high-level chlorine application.

### Applications

The perfect fit for your applications requiring chlorine monitoring and control:

- Fruit and Vegetable Washing
- Food Processing
- Clean-in-Place (CIP) Processes
- Paper Production
- Textiles
- And Many More Industrial Processes

### Maintain Safety while Saving Time

- Save Time and eliminate the need for manual testing and control of chlorine levels.
- Ability to control 2 chlorine dosing systems simultaneously allowing for back-up systems to be automatically activated ensuring constant operation and safety.
- Able to accurately monitor chlorine levels with pH range from 6 to 8 and temperatures as low as 1 °C
- Combine with our self-cleaning pre-filter for a worry-free system.

### Proven Results

The HG-602 High Chlorine expands on HydroGuard's proven HG-602 platform to provide measurement and control of high chlorine levels, providing peace of mind to our customers around the world.



- Free Chlorine up to **200 ppm** !
- Accurate and Reliable Measurements
- Automatic Temperature and pH Compensation
- Multiple Parameters in a Single System
- Simple, User-friendly Menus and Functions
- Meets IP-65 (NEMA 4) Standards

**Your Water Quality Partner**



## HG-602 High-Chlorine

Mechanical Data	
Dimensions (analyzer only)	14" x 7" x 5" (W x H x D) 340mm x 220mm x 120mm
Dimensions (inc. mounting panel)	31.5" x 21.5" x 6" (W x H x D) 800mm x 546mm x 152mm
Cable Entries	Pg 9 Cable Glands
Ingress Protection	IP 65 (NEMA 4 equivalent)
Permissible ambient Temperature	15 to 113°F (-10 to 45°C)
Weight	Approx. 11 lbs (4.5 kg)
Electrical Connection	
Power Supply	110-115 VAC/1A 210-230 VAC/0.5A
Power Consumption	Approx. 60 VA
Power Supply for RTC Memory	3.6V Lithium Battery
Data Output	
RS485	Standard
4-20mA	Optional
Relays - Closed-Loop Control	
Cl 1	110-230V 4A Max
Cl 2	110-230V 4A Max
pH	110-230V 4A Max
Turbidity	110-230V 4A Max
Alarm	110-230V 4A Max
Temperature	110-230V 4A Max
Display	
Top 5.5" Large Graphic Monochrome Display	Chlorine, pH, Temperature, Turbidity, Conductivity and Flow
Bottom 2 Lines of Display	Secondary Parameters, Alarms and Messages
Cl Measurement	
Electrode	Passive-operated, membrane-covered, amperometric two-
Measurement Range	5 to 200 ppm
Polarization Time	First: 60 minutes Re-polarize: 30 minutes
Operating Time of Electrolyte	typically 12 months (refillable)
Response Time	Upwards: 90% < 2 min, 99% < 5 min Downwards: 90% < 0.5 min, 99% < 3 min
Min Flow Rate	40 L/hr (0.2 GPM)
Max Pressure	1 bar (15 psi)

pH Measurement	
Electrode	Ceramic diaphragm KCL gel filled
Measurement Range	4 to 10
Input Impedance	$0.5 \times 10^{12} \Omega$
Temperature Measurement	
Electrode	PT-100
Measurement Range	32 to 158°F (0 to 70°C)
Flow Monitoring	
Sensor	Rotating Flow Switch
Output Signal	Dry Contact
Inlet Pressure	1 bar (15 psi)
Outlet Pressure	0.9 bar (14 psi)
Chlorine Control - Relay 1	
Control	Closed-Loop
Control Function	P or PI or ON/OFF
Set Value Control	Pulse Length proportional control Pulse Frequency proportional control
Chlorine Control - Relay 2	
Control	Closed-Loop
Control Function	ON/OFF
Set Value Control	Pulse Length proportional control Pulse Frequency proportional control
pH Control 1	
Control	Closed-Loop
Control Function	P or PI or ON/OFF
Characteristics	Normal or Inverted
Set Value Control	Pulse Length proportional control Pulse Frequency proportional control
Data Logger	
Memory	256k
Lines	1000
Recording Interval	1-360min
Event Logger	yes
Security	
Operator Password	yes
Technician Password	yes