

HG-602 WATER QUALITY CONTROLLER



A simple and user-friendly analyzer that is an immediate success with operators who recognize the need for advanced but still easy to use water analysis.

Customized Multi-Parameter Systems

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

Versatile Chlorine Measurements

Whether you are operating at low levels of chlorine for municipal or high ranges for industrial applications, with amperometric probes for 5, 10 and 20 ppm and cutting-edge **integrated pH and temperature compensation**, the HG-602 provides the most stable and reliable chlorine measurements available.

Reliable Wired or Wireless Communication

Select from 4-20mA outputs with dry contact alarms, wired digital output to a local computer, or a completely wireless system that can be accessed from any internet connection or even a mobile phone.

Proven Results

The HG-602 improves upon HydroGuard's experience and tradition of supplying the most accurate and reliable water analysis equipment providing peace of mind to our customers around the world.



- Accurate and Reliable Measurements
- Upgradeable to fit changing needs
- Multiple Measurements in a Single System
- Simple, User-friendly Menus and Functions
- Meets IP-65 (NEMA 4) Standards

Your Water Quality Partner



HG-602

MECHANICAL DATA	
Dimensions (controller)	14" x 7" x 5" (W x H x D) 340mm x 220mm x 120mm
Cable entries	Pg 9 Cable Glands
Ingress protection	IP 65 (NEMA 4 equivalent)
Max. permissible ambient temperature	15°F to 113°F (-10°C to 45°C)
Weight	Approx. 11 lbs. (4.5kg)

ELECTRICAL CONNECTION	
Power supply	110-115VAC/1A 210-230VAC/0.5A; 50Hz/60Hz
Power consumption	Approx 60 VA
Power supply for RTC Memory	3.6V Lithium Battery

DATA SERIAL OUTPUT SIGNAL OUTPUT	
RS 485	Standard
4-20ma	optional

RELAYS	
CL (Chlorine) set point 1	110-230V 4A Max
CL (Chlorine) set point 2	110-230V 4A Max
pH	110-230V 4A Max
Turbidity control*	110-230V 4A Max
General Alarm	110-230V 4A Max
Temperature control	110-230V 4A Max

DISPLAY	
Measured 5.5" Large Graphic Monochrome Display	Chlorine, pH Temperature, Turbidity* Conductivity*, Flow*
Bottom of Display 2 line 24 character LCD with background light	for secondary parameters, program alarms and status

pH MEASUREMENT	
Display range	4-10
Sensor	Ceramic diaphragm and gel filling
Input impedance	0.5 . 10 ¹² Ω

CL MEASUREMENTS	
Electrode	passive-operated sensor with gold cathode and Silver/Silver chloride anode
Operating time of filling electrolyte	typically 12 months
Minimum flow velocity	15 cm/s
Minimum flow for assembly	40 L/H
Maximum counterpressure	1 bar
Measuring range	0.05 0 mg/Cl ₂ (25°C, pH 7.2)
Polarisation voltage	first polarisation 30 min. subsequent polarisation 10 min.
Drift	< 1.5% per month
Step function response upward	90% < 2 min, 99% < 5 min
Step function response downward	90% < 0.5 min, 99% < 3 min



MATERIALS	
Shaft	PVC
Membrane	PTFE
Membrane cap (replaceable)	PBT (GF 30), PVDF

TEMPERATURE MEASUREMENT	
Sensor	PT-100
Measuring range	32 to 158°F (0 to 70°C)

FLOW MONITORING	
Sensor	Rotating flow switch
Output signal	Dry Contact
Inlet Pressure	1 BAR
Outlet Pressure Close Cell	0.9 BAR

pH VALUE CONTROL	
Control function	P or PI, or On/Off
Characteristics	Normal / Inverted
Set value function	Pulse Length proportional controller Pulse Frequency proportional controller

CHLORINE CONTROL #1	
Control function	PI, or On/Off
Proportional band	yes
Set value function	Pulse Length proportional controller Pulse Frequency proportional controller

CHLORINE CONTROL #2	
Control function	On/Off
Proportional band	no
Integral action time	no

DATA LOGGER	
Memory	256K
Lines	1000
Recording interval	1-360 min
Event logger	yes
Total relay on time	yes

SECURITY	
Operation Password	Yes
Technician Password	Yes

* Optional Feature

Operating principle

