

HYDROGUARD HG-HighCl

Accurate control for High Chlorine Applications

Customized Multi-Parameter Systems

The **HYDROGUARD HG-HighCl** adapts to each sites unique needs by allowing any combination of measurements in a single system including: Free Cl (up to 200 ppm), 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

Reduced Total Cost of Ownership

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

Based on HYDROGUARDs proven platform, the **HYDROGUARD HG-HighCl** with integrated pH and temperature compensation provides reliable measurement and control of high chlorine levels.



- → 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



HYDROGUARD HG-HighCl SPECIFICATIONS

MECHANICAL DATA		TEMPERATURE MEASU	JREMENT
Dimensions (controller)	14" x 7" x 5"	Sensor	PT-100
(W x H x D)	(340 x 220 x 120mm)	Measuring range	32°F to 122°F (0°C to 50°C)
Cable entries	Pg 9 Cable Glands	FLOW MONITORING	
Ingress protection	IP 65 (NEMA 4 equivalent)	Sensor	Rotary flow switch
Max. ambient	15°F to 113°F	Output signal	Dry Contact
temperature	(-10°C to 45°C)	Inlet Pressure	1 bar (15 psi)
Weight Approx.	11 lbs. (4.5kg)	Outlet Pressure Close C	Cell 0.9 bar (13 psi)
ELECTRICAL CONNECTION		pH VALUE CONTROL	
Power supply	100-120VAC/1A 210-230VAC/0.5A; 50Hz/60Hz	Control function	P or PI, or On/Off
		Characteristics	Normal / Inverted
Power consumption	Approx 60 VA	Relay function	Pulse Length
Power supply for RTC	3.6 V Lithium Battery	nowy runous.	proportional controller
DATA SERIAL OUTPUT SI			
RS 485	Standard		Pulse Frequency
4-20mA	Optional		proportional controller
RELAYS	Optional	CHLORINE CONTROL R	elay #1
CL (Chlorine) set point 1	250VAC/DC 4A Max	Control function	PI, or On/Off
CL (Chlorine) set point 2	250VAC/DC 4A Max	Proportional band	Yes
pH 1	250VAC/DC 4A Max	Relay function	Pulse Length
Turbidity control* 1	250VAC/DC 4A Max		proportional controller
General Alarm	250VAC/DC 4A Max		Pulse Frequency
	•		proportional controller
Temperature control DISPLAY	250VAC/DC 4A Max	CHLORINE CONTROL R	• •
5.5" Large Graphic Monochrome Display		Control function	On/Off
Character LCD with background light alarms and status		Proportional band	No
pH MEASUREMENT	ground light alarms and status	Integral action time	No
•	0-14	-	
Measuring Range		CHLORINE CONTROL 4	
Sensor	Ceramic diaphragm and	Control Function	Open loop
Input impedance	gel filling $0.5 \cdot 10^{12} \Omega$	DATA LOGGER	
	0.5 . 10 22	Memory	256K
CI MEASUREMENTS		Lines	1000
Indicator	Free chlorine	Recording interval	1-360 min
Measurement Principle	Membrane covered,	Event logger	Yes
	amperometric 2-electrode	SECURITY	
	system with electronic inside	Operation Password	Yes
Measuring range	5 200 ppm	Technician Password	Yes
Max. operating pressure			
Material	Semipermeable membrane, PVC-U	* Optional Feature	
pH range	6-8		
Flow rate	3040l/h		