

HYDROGUARD HG-TotalCI

Accurate control for Total Chlorine Applications

Customized Multi-Parameter Systems

The **HYDROGUARD HG-TotalCI** adapts to each sites unique needs by **a**llowing any combination of measurements in a single system including: Total CI, pH, Temperature, Turbidity, Conductivity and Flow. A complete, 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 **HYDROGUARD HG-TotalCl** parameters and alarms can be viewed from any internet connection or even a mobile phone. Furthermore 4-20mA based indications and dry contact alarms enable extends connectivity options.

Applications

- Potable water
- Process water
- Waste water
- Pools

Reduced Total Cost of Ownership

Save Time and eliminate the need for manual testing and control of Total Chlorine levels.

Ability to control 2 chlorine dosing systems simultaneously allowing for back-up systems to be automatically activated ensuring constant operation and safety.

Proven Results

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



- → Total Chlorine up to 10ppm
- → 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-TotalCI SPECIFICATIONS

| MECHANICAL DATA | | |
|---|--|--|
| Dimensions (controller) | 14" x 7" x 5" | |
| (W x H x D) | (340 x 220 x 120mm) | |
| Cable entries | Pg 9 Cable Glands | |
| Ingress protection | IP 65 (NEMA 4 equivalent) | |
| Max. ambient | 15°F to 113°F | |
| temperature | (-10°C to 45°C) | |
| | , | |
| Weight Approx. ELECTRICAL CONNECTION | 11 lbs. (4.5kg) | |
| | | |
| Power supply | 100-120VAC/1A 210-230VAC/0.5A; | |
| | 50Hz/60Hz | |
| Power consumption | Approx 60 VA | |
| Power supply for RTC | 3.6V Lithium Battery | |
| | 3.0 V Elimani Battery | |
| memory | WAL CHENT | |
| DATA SERIAL OUTPUT SIG | | |
| RS 485 | Standard | |
| 4-20mA | Optional | |
| RELAYS | | |
| CL (Chlorine) set point 1 | 250VAC/DC 4A Max | |
| CL (Chlorine) set point 2 | 250VAC/DC 4A Max | |
| pH 1 | 250VAC/DC 4A Max | |
| Turbidity control* 1 | 250VAC/DC 4A Max | |
| General Alarm | 250VAC/DC 4A Max | |
| Temperature control | 250VAC/DC 4A Max | |
| DISPLAY | 250 7710, 20 7711107 | |
| 5.5" Large Graphic Monoc | chrome Display | |
| Character LCD with background light alarms and status | | |
| pH MEASUREMENT | Tourid light diarris and status | |
| Measurement range | 0-10 | |
| | | |
| Sensor | Ceramic diaphragm and | |
| Input impedance | gel filling $0.5 \cdot 10^{12} \Omega$ | |
| | 0.5 . 10 12 | |
| CI MEASUREMENTs | | |
| Indicator | Total chlorine | |
| Measurement Principle | Membrane covered, | |
| | amperometric 3-electrodes | |
| | system with potentiostatic | |
| | circuit and integrated | |
| Mading tour sent | electronics | |
| Working temperature | 33.8°F to 113°F (1°C to 45°C) | |
| Measuring range | 0.0510 ppm | |
| Max. operating pressure | 7.25 psi (0.5 bar) | |
| Material | PVC-U, electro-polished | |
| | stainless steel | |
| pH range | 4-10 | |
| Flow rate | 30 40 l/h | |
| | | |

| TEMPERATURE MEASUR | EMENT |
|---------------------------|-----------------------------|
| Sensor | PT-100 |
| Measuring range | 32°F to 122°F (0°C to 50°C) |
| FLOW MONITORING | |
| Sensor | Rotary flow switch |
| Output signal | Dry Contact |
| Inlet Pressure | 14.5 psi (1 bar) |
| Outlet Pressure Close Cel | l 13 psi (0.9 bar) |
| pH VALUE CONTROL | |
| Control function | P or PI, or On/Off |
| Characteristics | Normal / Inverted |
| Relay function | Pulse Length |
| | proportional controller |
| | Pulse Frequency |
| | proportional controller |
| CHLORINE CONTROL #1 | |
| Control function | PI, or On/Off |
| Proportional band | Yes |
| Relay 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