

HydroGuard™

Water quality analyzers



Your Water Quality Partner



Reliable Water Quality Solutions for Every Industry

- Potable water
- Sewage treatment
- Pharmaceuticals
- Chemicals
- Oil and gas
- Pulp paper
- Wood
- Marine and shipyards
- Cooling towers
- Desalination plants
- Swimming pools

At Blue I Technologies, we understand the impact that water quality can have on business. Through a combination of leading-edge technology and in-depth industry experience, we have created water quality solutions for a broad range of industries. From sewage treatment to cooling towers, we work continuously to ensure that our products respond to the latest market needs. Our experienced team cooperates closely with customers to customize our solutions to meet unique requirements.

Cutting Edge Technology

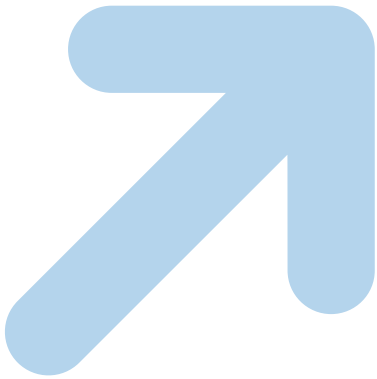
Colorimetric measurement of chlorine is the industry and laboratory standard, but analyzers based on this method tend to be expensive and difficult to maintain. Based on years of experience in the field, Blue I has pioneered an optimized implementation of the colorimetric measuring process that features long-term reliability and low maintenance.

Easy to Use. Easy to Maintain.

HydroGuard Water Quality Analyzers have an intuitive, graphical user interface for easy set-up and are designed for low maintenance. Detailed messages provide useful information about incidents, timing and causes so that you can respond effectively.

HydroGuard Analyzers perform self-calibration, self-cleaning and long-term stabilization. Manual procedures such as periodic reagent replacement are easy to perform and do not require specialized skills.

HydroGuard™ Water Analyzers – A Comprehensive Solution



Blue I's innovative product line includes two modular controllers that can be configured to meet a variety of needs. With interchangeable sensors and a flexible, robust architecture, the Blue I product line provides an optimal solution for both customers and distributors:

- A cost-effective solution in a single unit
- Efficient inventory management
- Flexibility to meet unique requirements
- Simple, rapid installation.

HG 702

8 Water Quality Parameters in 1 Unit

Choose up to eight parameters including Chlorine analysis using industry-leading colometric Technology.



HG 502

2 Water Quality Parameters in 1 Unit

Choose up to two parameters.
Wall or panel mounted.



One Controller, All Your Water Analysis Needs

Hydroguard Water Quality Parameters

- Free Chlorine (Colorimetric)
- Free Chlorine (Amperometric)
- Total Chlorine (Colorimetric)
- Conductivity
- Turbidity
- pH
- ORP
- Dissolved Oxygen (D.O.)
- Flow Rate

HydroGuard™ 702

One Controller, All Your Water Analysis Needs



Extremely accurate, HydroGuard functions well in difficult water conditions such as high turbidity, sewage water and sea water. The entire system, including electrodes, is protected against random water shut-off and automatically resumes operation without delay.

HydroGuard's unique architecture practically eliminates the need for routine system maintenance. Replacement of reagents is fast and simple. Patent-pending technology, combined with high quality pumps and tubes prevents clogging.

Chlorine Testing: Free and/or Total

- Accurate, consistent readings (+/- 5%)
- Very low reagent consumption (~0.03mL/sample)
- Self zero before each reading
- Self cleaning photocell
- Measurement: 0-10 ppm
- Measurement interval: 2 to 10 minutes

Electronics

- IP: 65 rated enclosures (NEMA 4 equivalent)
- Electronics: SMT Technology
- Galvanic separated boards ensures ongoing system operation
- Removable terminal blocks for fast connections
- Minimum down-time for maintenance and repairs

Inputs/Outputs

- Up to 8 analog 4 - 20 mA isolated outputs
- Up to 3 analog 4 -20 mA isolated inputs
- Up to 6 output contact relays

HydroGuard™ 702

One Controller, All Your Water Analysis Needs



Key Technical Data	
Free/ Total Cl ₂ Measurement	0 to 10 ppm
Reagent level indications	Indication - on 20% left Alarm - lack of reagent
Flow switch	Integrated flow switch indicates sufficient flow and prevents injection when flow stops
Menu selectable languages	English, French, Spanish, Italian, German, Russian, Polish, Portuguese, Chinese, Japanese, Hebrew
Analog outputs	Up to 8
Internal data logger	256K
Main supply	100-240V, 50-60Hz
Dimensions	67cm x 33cm x 14cm 26" x 13" x 5.5" (WxHxD)

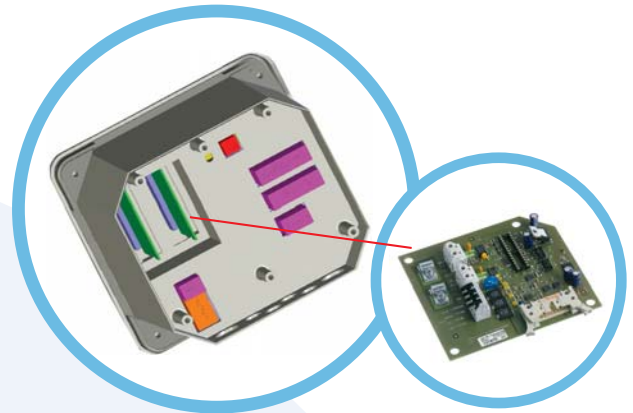
HydroGuard 502™ →→

The HG 502 offers reliable analysis of up to two quality parameters at a competitive price. The HG 502 is small and easily mounted on a wall or panel. An intuitive “plug and play” card system and a built-in set-up wizard make configuration fast and simple.



HG 502 BACK VIEW

Fast, simple mounting of sensor PCB boards. Plug and play software ensures that cards are automatically identified by the analyzer.



Sensors plug into the PCB and are easy to place and remove.

→ pH



→ D.O.



→ FLOW



→ SAMPLING CELL → ORP



Modular, High Quality Sensors

Blue I offers a set of modular sensors that can be used to customize and expand the HydroGuard water quality analyzers. All sensors are compatible with both the HG 702 and HG 502 controllers.

→ TURBIDITY

High quality turbidity sensor with high resolution covers a wide range of applications and has proven reliable over the long term. A 90 degree scattered light with two receptors provides high accuracy. With a sensitivity resolution of 0.01 NTU, the sensor is suitable for monitoring **potable** water while the wide range is also effective in **sewage** water with high levels of turbidity. A unique method of "bubble trapping" and self cleaning enables smooth operation in difficult water conditions.



→ CHLORINE ELECTRODE

Through a wide range of various CL electrodes (0.01-20.00ppm) HydroGuard handles an endless number of applications, including **potable** water. The minimum flow rate of 30L/h and state of the art flow assembly provide optimal operating conditions. Analyzer will automatically compensate for pH and temperatures value.



→ ELECTRODLESS CONDUCTIVITY CELL

Compact insert electrode-less conductivity transmitter, implementing the inductive measuring principle for high quality measurement over a wide range of applications.

Appropriate for potable water, sewage, and acid concentrations, from 200 $\mu\text{S}/\text{Cm}$ up to 1,000,000 $\mu\text{S}/\text{Cm}$. Features automatic temperature compensation and low maintenance requirements.





Wired Communications

All Blue I controllers can provide up to three types of wired communications:

Dynamic analog output

- 4 – 20 mA
- 2 - 4 isolated outputs with internal PCB and 4 relays for dry contacts
- 2 - 8 isolated outputs with external module and 6 relays for dry contacts

External box can be located up to 200 meters from the controller using only 2 wire cables, reducing noise, errors, and costs

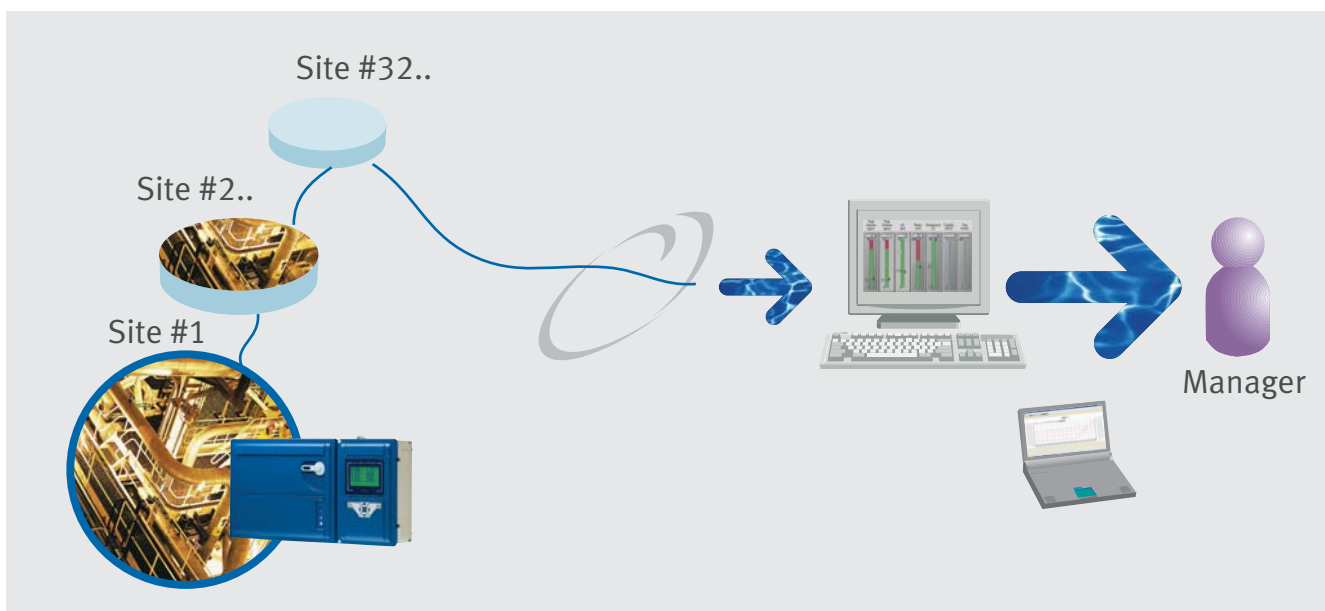
HydroSoft™ Bidirectional PC Communications

- Proprietary PC direct connection software
- Ability to connect up to 32 units to one PC
- Internal data logger
- Graphs and analytical data
- Data export to .csv format for further analysis

Printer

- Real time printing of data – low cost alternative for data sharing
- Complies with local standards
- RS485 connection
- Supports printers with serial inputs and ASCII standard

→ INFORMATION FLOW



With HydroGuard, you get the information you need, where and when you need it.

You decide who needs to receive each type of alert, and the most effective communication channel including mobile phones and internet.

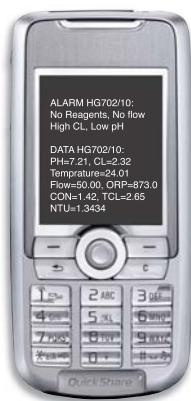
Wireless Communications

With realtime wireless communications, Blue I controllers keep you up to date 24 hours a day, 7 days a week. Ongoing alerts help you to provide fast, responsive customer service, while managing resources more efficiently. Follow-up with Blue-I graphs and reports to provide comprehensive problem resolution.

Wireless Web Connection

- Bidirectional GPRS data transmission
- Web-based application displays realtime and historical data
- Store and save data for analysis
- Realtime alarms
- Request status report by sending a text message

→ REAL TIME ALERTS TO CELLULAR PHONE



→ INTUITIVE DISPLAY ON YOUR PC





A Long Term Commitment to Our Customers

We treat all of our customers and distributors like long-term partners. That means we are committed to your success. We maintain an open dialog to ensure that your needs are met as quickly as possible. Water quality is our business, and we are focused on providing the best technology and service on the market.

Industry-Leading Product Development

Our product development team works hard to ensure that Blue I technology continuously sets new standards for quality and convenience. With two major patents pending, Blue I offers the most reliable measurements, combined with the most convenient, low-maintenance system architecture currently available.

Around the Clock. Around the World.

With three service centers in the United States, EMEA, and Asia, Blue I has customer support engineers on call in your time zone, 24 hours a day, 7 days a week. We believe that your problems are our problems – so we stand behind our policy of providing an immediate response.

Advanced Training Programs

We provide a series of training courses for our distributors and customers that are designed to help you get up and running quickly. Our skilled instructors are experts in water quality as well as in Blue I Technology.

Why Blue I?

HydroGuard Water Quality analyzers are the optimal solution for your water quality needs:

- Reliable system requiring a minimum of maintenance
- State of the art colorimetric testing technology
- User-friendly operation and set-up
- Customized solutions for every industry and unique customer requirement
- Dedicated customer service at every stage





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