

Making Every Pool Smarter

The Pulsar® GuardTec IoT System brings clarity to pool water and to every decision in the operation and management of commercial pools. Easily and instantly monitor, diagnose and manage water quality in multiple pools from a single device in real-time.



Analyze, Understand And Optimize Results

GuardTec is an automated, IoT-enabled pool chemistry controller built with precision ORP and pH sensors as well as enhanced safety features to make commercial pool management seamless, highly reliable and accessible from anywhere.

The core of the GuardTec IoT System is a set of probes, modular relays, a lighted flow cell and 7" touchscreen that can be mounted to our feed system skid or to a nearby wall. Following simple setup instructions, GuardTec begins controlling, reporting and troubleshooting the feed system immediately in real-time to the facility manager and operations team. It's that easy.



Better Results, Easier Operation

- Unrivaled water quality across your entire universe of pools and spas
- A modular system for a wide range of pool and spa applications
- Easy installation and ongoing operation
- Automated control of Pulsar chlorine and acid feed systems
- Sustainable, more efficient, easier and safer to use

Learn how to get Pulsar® GuardTec included with your Pulsar® Feed System with **no added CapEx investment***

Key Features & Benefits of the GuardTec System

Grouping of pools, spas, parks

Easy online management of any and all aquatic facilities, individual pools, spas, parks. GuardTec enables you to instantly view, analyze and take action – and offers a host of other features and benefits:

Real-time monitoring of chemical consumption

- » pH, ORP, FAC (coming soon) displayed in real-time
- » Temperature, probe life and controller set points
- » Chemical usage and trends
- » Historical analysis by day/week/month/quarter

Notifications & Alarms:

- » Customizable Notifications and Alarm Categories
- » Notifications via email to designated recipient(s)



Water Link® Spin Touch® Connected Water Testing:

- » Auto-calibrate GuardTec probes to match wet test
- » Upload manual wet test results to Solenis Cloud® for viewing and reporting

Specifications At A Glance

System Connectivity

Pulsar® GuardTec is a web-based, mobile-friendly platform with a dedicated portal built using the Cumulocity® IoT Platform on Solenis Cloud®. It can also be used via cellular connection with an agnostic SIM card managed by Solenis on the Webbing® platform with multiple chemistry controllers connected via a single modem. A local network option is available with inherent IT security built on the Cumulocity® platform with a one-way connection to prevent unauthorized remote control.



GuardTec	
Feed Control Options	On/Off, Proportional, Manual
Equipment I/O	(5) Total: (4) x Feeder & Pump Modules, (1) x Flow Cell
LCD Type, Size, Resolution, Display Color	Capacitive Touchscreen, 7", 800x480 RGB, 262K
USB Port	Micro USB for Firmware Updates
Ethernet Port	RJ45 for CAT 5 & 6 Ethernet Cable, 10/100/1000 Base-T
Data Cable Length	9.84ft (3m)

Electrical	
Power Supply Input	120/240 VAC, 1.2/0.55A, 50-/60Hz, Single Phase
Power Supply Output	24 VDC, 4A, 96w
GuardTec Input	24 VDC
Pump Module Input	120/240 V, 20A MAX (GFCI dedicated), 50/60Hz (240 V required customer supplied power cord)
Pump Module Output	120/240 V, 20A MAX, 50/60Hz Mechanical Relay, 12AWG (or per local electrical code and NEC) to Booster Pump (customer supplied)

Environmental Conditions:

Use in well-ventilated area, refer to local codes for specific requirements. Provide cover/shelter, keep away from direct sunlight.

Operating ambient temperature: -4° F to 158° F (-20°C to 70° C)

Recommended ambient temperature: 40° F to 120° F (4.4° C to 48.9° C) indoor use preferred.



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*** Contact your Pulsar® Sales Representative to learn about details and restrictions.**