

The **PULSAblue C3400 Series** controllers offer a wide variety of input and output capabilities from conductivity, pH, and ORP control to Ion specific sensor options and multiple boiler control. Optional communications packages offer comprehensive system monitoring and data logging at an exceptional value. From simple single parameter systems to multiple system control, PULSAblue has you covered.

Key Features

- Simple one point calibrations.
- Field expandable without software upgrades.
- 4 electrode conductivity probe with automatic fouling compensation and alarm.
- Records both makeup and blowdown water meter totals.
- The makeup conductivity option provides a programmable blowdown relay either based on makeup conductivity cycles of concentration or make up water volume.
- Selectable relay options:
 - Feed by setpoint, direct or reverse
 - Water meter actuated feed. Meter 1, Meter 2 or the sum of both.
 - Feed after blowdown by percent of bleed time
 - Feed by percentage of time
 - Calendar timer
 - General alarm contact
- Three security levels: View only, Operator, Technician
- Four different languages:
 - English Spanish (standard)
 - English French (optional)
 - English German (optional)

Operating Benefits

- Multiple control options in a single economical package.
- Accurate control of chemical feed and cycles of concentration.
- Low maintenance and easy installation.
- Tolerant to power surges and brownouts.
- Accurate monitoring of the evaporated water.



Communication Options



PULSAlink Software

- Our propriety software, written in multilayer firmware, protects your systems security while providing the data you need.



PULSAlink Ethernet Based WebNode

- E-mail and text alerts can be sent free of charge.
- Connect your PULSAblue controller to your LAN and access it over the internet
- Multi-layered firmware ensures network security and protection from potential hackers.



PULSAlink Wireless Internet

- Access your PULSAblue unit from the internet anywhere in the world fast and secure.

After Market

- Solenoid Valves
- Paddle Wheel Meter
- Calibration Solutions



NEMA 4X

PULSAblue[™] C3400 Series
Cooling Tower Controller

PULSAblue™ C3400 Series

Specifications and Model Selection

Model	Conductivity Control	pH Control	ORP Control	Make-up Conductivity	Chemical Pump Timers	Water Meter Input	4-20mA Output	4-20mA Inputs	Communications
C3410	√			Opt	7 Std + 4 Opt	2 Std	2 Opt	8 Opt	Opt
C3422	√	√		Opt	6 Std + 4 Opt	2 Std	2 Opt	8 Opt	Opt
C3423	√		√	Opt	6 Std + 4 Opt	2 Std	2 Opt	8 Opt	Opt
C3435	√	√	√	Opt	5 Std + 4 Opt	2 Std	2 Opt	8 Opt	Opt

3400 Cooling Tower Specifications

Conductivity Range	0 - 5,000 µS (other ranges optional)
Conductivity Sensor	4 electrode, 20' cable length max.
Conductivity Accuracy	± 40 µS
Conductivity Resolution	± 10 µS
pH & ORP Sensors	15' cable length max.
ORP Range	1,000 to + 1,000 mV
ORP Sensor	Combination glass electrode
ORP Accuracy	± 5 mV
ORP Resolution	1 mV
pH Range	0-14 pH
pH Accuracy	± 0.05 pH
pH Resolution	0.01 pH
Temperature Comp.	Automatic
Setpoint	Direct or reverse (configurable in the field)
Display	Illuminated 128 x 64 pixel LCD
Water Meter Inputs	(2) Contact head, paddle wheel or turbine
Relay Ratings	(8) 3 Amps @ 120 VAC
4-20 mA	(2) optional isolated outputs
Power	120 VAC 50/60 Hz
Ambient Temperature	32° - 158°F (0 - 70°C)
Max. Temperature	140°F (60°C)
Min. Flow	1 gpm (3.8 lpm)
Pressure	140 psi (9.7 bar) @ 100°F (38°C)
Enclosure	NEMA 4X

Sensors / Plumbing	Cooling Tower
Max Pressure @ 100°F (38°C)	140 psi (9.65 bar)
Max Temp	140°F (60°C)
Min flow	1 gpm (3.785 lph)

Communications Options

- Ethernet / Internet
- Wireless internet
- LONworks
- Direct RS-232
- Modem

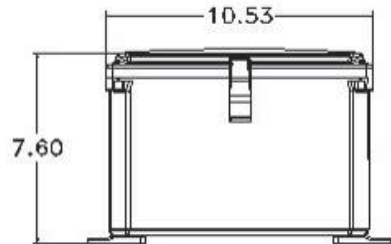
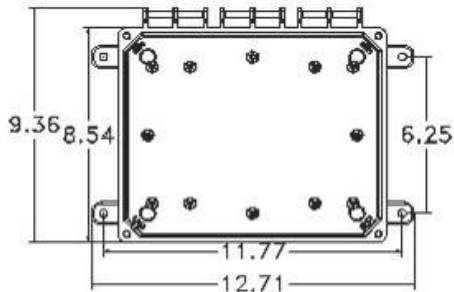
Custom Engineered Designs

Fully Enclosed Systems

The controller and metering pumps are enclosed in a steel enclosure with a hinged door for protection and security. The Standard system includes a sample stream plumbing assembly, 3/4" PVC inlet valve, 3/4" PVC outlet valve, sample valve, clear bowl strainer and a flow switch. Optional features include corrosion coupon racks, flow meter, and prewired electrical connections.



Dimensions



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An ISO 9001 and ISO 14001 Certified Company



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