

# CTSolutions® Controller

Collect / Calculate / Control / Communicate

## The CTSolutions® controller

is a versatile water treatment automation system designed to optimize boiler, cooling & wastewater management programs.

By leveraging a wide range of sensor & communication technologies, CTSolutions® is one of the most flexible, accurate & secure monitoring platforms available.

- Help optimize treatment levels with advanced monitoring and control technologies
- Reduce manpower requirements by automating testing and control of key system parameters
- Decrease total cost of operations by minimizing water and chemical usage
- Improve response time to system upsets with 24-7 remote monitoring and control

## Take Control of Your System

To remain competitive in today's business environment, companies must continually find ways to become more efficient. In support of this effort, managers of boiler, cooling, and wastewater systems are expected to balance a number of competing demands:

- Aggressive water and chemical cost savings initiatives
- Limited manpower to support operations
- Minimal in-house water treatment expertise

Operations leaders must overcome these challenges while maintaining superior system performance and complying with environmental regulations. This can seem like an impossible task without water treatment automation. CTSolutions® is an advanced feed, monitoring, and control platform that helps improve visibility to system conditions without the need for additional operator support. Not only does CTSolutions® minimize water and chemical usage, but it also enables operators to spend more time performing other value-added activities. CTSolutions® truly allows commercial and industrial customers to achieve productivity goals without compromising on performance, safety, or environmental compliance.



### Collect

Data 24/7  
with Sensors



### Communicate

Via Wireless  
Data Networks



### Control

Levels of  
Treatments



### Calculate

Optimal  
Treatment Levels

# CT Solutions® is Engineered To Manage What Matters Most to Your System

## Benefits of CT Solutions® Technology

### Increased Flexibility:

- Utilize manpower more effectively with the peace of mind that your system is being monitored 24-7
- Upgrade your existing equipment with the assurance that CT Solutions® is compatible with any treatment program

### Better Performance:

- Reduce chemical and water costs through the optimization of your water treatment program
- Improve operating performance by feeding the right amount of chemical at the right time



For cooling systems -  
Maximum rating of 100 PSI and  
120° F unless otherwise stated

### Multiple mounting options increase flexibility:

- Enclosure (optional) provides protection from environmental elements
- Panel mounted option ideal for indoor applications
- Skid mounted (optional)

### Controller:

- Multiple control outputs
- Inhibitor feed using ppm setpoints
- Versatile communications: Modbus/BacNet (optional), ethernet, cellular standard
- Data logging

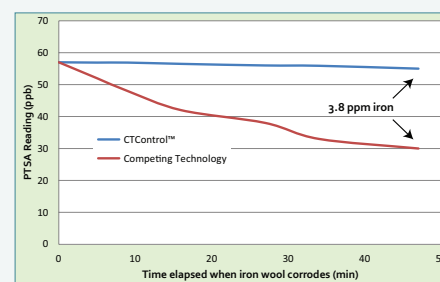
### Standard inputs available for:

- pH, ORP, & conductivity
- PTSA
- Tagged polymer
- Water meters
- Temperature
- Corrosion monitoring
- Free or total chlorine

### Advanced Fluorescence Technology

- Simple operation, easy to implement
- All-digital, robust design requires little maintenance
- Outperforms competing technology

### CT Solutions® maintains accuracy despite common interferences



### CT Solutions® is more accurate than competing fluorescence technologies

In laboratory studies, two solutions were introduced with 60 ppb of PTSA and subjected to iron wool corrosion. After 50 minutes, at an iron concentration of 3.8 ppm, CT Solutions® readings remained accurate while the competing technology's readings became skewed.

**ChemTreat's QuadDetect™ Technology** accurately and reliably measures deposit control agent (DCA) residual in your system, which can enable you to monitor system stress and detect the possible onset of scale formation. Your facility can reduce total cost of operation and preserve equipment by maintaining system performance with QuadDetect technology.