

Remote Monitoring



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2 INTRODUCTION

The controller is designed to allow remote viewing, report creation, and alerts to any technician, nurse, or dealer. This system will alert the user via email whenever an alarm is triggered from one of the various sensors in the water system.

NOTE: All inputs and outputs can only be utilized by AmeriWater approved sensors. Applying additional sensors to the controller can result in damage to the controller.

The table below shows what various sensors each system will be provided.

System Sensor Breakdown	System	
Sensor	00RM-0001	00RM-0002
Pre-Filter Differential Pressure		X
RO Pre-Filter Differential Pressure		X
RO Health Communication		X
RO Conductivity & Temperature Sensor	X	X
Primary DI Resistivity Communication	X	X
Storage Tank Level Switch		X
Endotoxin Filter Differential Pressure		X
Final Water Quality Sensor	X	X

1. Pre-Filter Differential Pressure:

The differential pressure of the system water filter allows the user(s) to determine the health of the filter and pressure applied to the RO, which can directly affect the performance of the RO pump.

2. RO Filter Differential Pressure:

The differential pressure of the RO filter allows the user(s) to determine the health of the filter and pressure applied to the RO, which can directly affect the performance of the RO pump.

3. RO Alarm:

The RO alarm comes directly from the RO controller. The user(s) will receive an alert whenever the RO has an alarm. The user will need to go to the controller to determine what alarm is active.

4. RO Conductivity:

The conductivity of product water is critical to any water system. Monitoring this value will give the user confidence that the RO quality is within acceptable parameters. An alert will be sent if the value of the conductivity exceeds 50 μS .

5. Blend Valve Temperature:

The blend valve temperature affects the performance of the RO. The user(s) will be alerted if hot water is being sent to the RO, causing damage to the system.

6. Primary DI Water Resistivity:

The DI resistivity sensor signal will allow the user(s) to ensure that the DI continues producing high quality water. Whenever the sensor starts reading less than 1 Meg-Ohm the user will be alerted so that they can contact their DI provider to change the sediment.

7. Storage Low Float Switch:

The low storage tank switch will notify the user(s) if the storage tank is not being filled and limited water is available before the distribution pump turns off.

8. Endotoxin Filter Differential Pressure:

The differential pressure of the endotoxin filter allows the user(s) to determine the health of the filter and pressure applied to the loop. This allows the user to ensure that the filter is removing all endotoxins and bacteria before distribution.

9. Final Water Quality:

The Final Water Quality, measured in μS , is the point of use water. If the conductivity exceeds 10 μS the user(s) will be alerted.

3 INSTALLATION

3.1 PLUMBING IN SENSORS

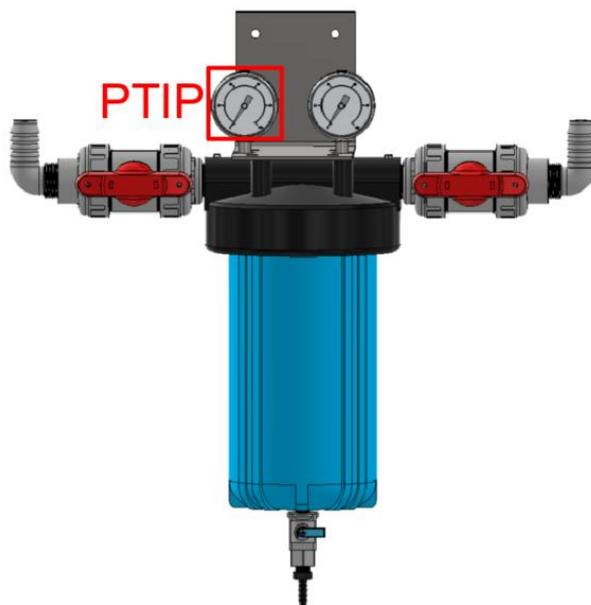
System installation will require plumbing in new sensors into your existing system. All sensors have 50 ft of cable that is pre-wired to the controller.

NOTE: All relevant areas will need to be disinfected after installation.

In most cases there will be plugs or pressure gauges where each sensor should be installed. However, for older systems more plumbing may be required to plumb items like your conductivity sensors or pressure transducers. An installation kit with various fittings is included in your remote monitoring package for these older systems.

All hardware mentioned in this document are included in your package.

3.1.1 Pretreatment Inlet Pressure Transducer

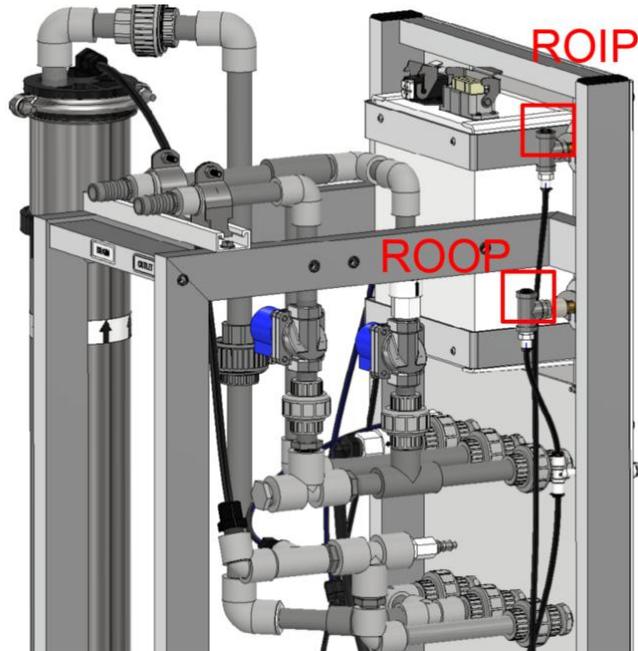


The pretreatment pressure transducer will be plumbed with the pressure gauge on the inlet of the pretreatment water filter. You need a 1/4" stainless steel tee and a plastic nipple for this connection.

Assemble a plastic nipple to a side port of the tee.

De-pressurized the system, remove the existing pressure gauge and install the provided tee (where applicable). Then re-apply the pressure gauge on the top of the tee and install a pressure transducer on the side of the tee.

3.1.2 RO Pressure Transducer (AWRO Model Only)



AmeriWater's AWRO comes with pre-installed and plugged tees located on the back side of the RO filter inlet and RO filter outlet pressure gauges. Ensure that the system is depressurized. You will need to remove the plugs from the top of each tee then install a pressure transducer where plugs were removed.

3.1.3 RO Pressure Transducers (Non-AWRO)



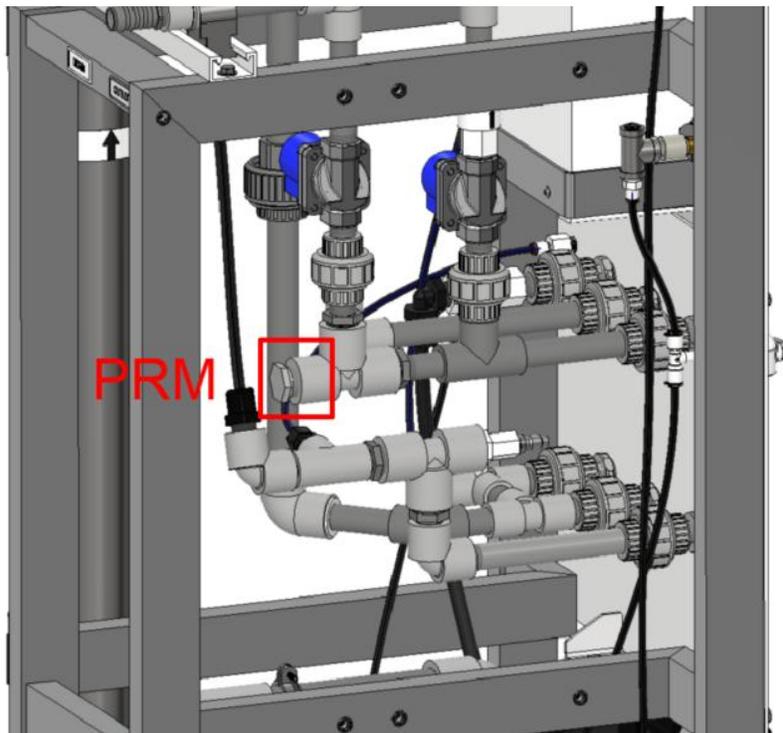
For any non-AWRO (example above does not account for all system designs) a pressure transducer will need to be installed on the outlet of the pretreatment filter with the pressure gauge on the outlet port. This will act as the RO Inlet pressure transducer.

INSTALLATION

Assemble a plastic nipple to the side of $\frac{1}{4}$ " stainless steel tee.

Ensure the system is depressurized. Remove the existing pressure gauge and install the provided tee (where applicable). Then re-apply the pressure gauge on the top of the tee and install a pressure transducer on the side of the tee.

3.1.4 RO Conductivity Sensor (AWRO Model Only)



AmeriWater's AWRO comes with a plugged port on the system. Located on the back side of the product flow meter. Ensure the system is depressurized. Remove the plug and add a conductivity sensor to the system.

3.1.5 RO Conductivity Sensor (Non-AWRO Model Only)



Using the supplied hardware for Non-AWRO kits: Connect a $\frac{3}{4}$ " tee to a garden hose adapter.

3.1.6 DI Resistivity



In the remote monitoring kit is a DI Resistivity Relay Module. With the provided screws secure it to the wall within ten feet of the green/red light hy-lite sensor on the DI tanks. Once secured to the wall plug the phone cable into the bottom of the relay module. The other end of the phone cable will need plugged into the green/red light hy-lite sensor on the DI Tanks or Silex, the port is located on the bottom on the sensor.

3.1.7 Endotoxin Pressure Transducers



INSTALLATION

The endotoxin pressure inlet transducer will be plumbed with the pressure gauge on the inlet of the endotoxin, located on the top of the endotoxin. You need a male run tee for this connection. Remove the existing pressure gauge and install the provided tee. Then re-apply the pressure gauge on the top of the tee and install a pressure transducer on the side of the tee.

The endotoxin pressure outlet transducer will be plumbed on the bottom of the endotoxin underneath the sample port. Alternatively, you can remove the existing pressure gauge on the outlet of the endotoxin and install the provided tee. Then re-apply the pressure gauge on the top of the tee and install a pressure transducer on the side of the tee.

3.1.8 Final Water Quality



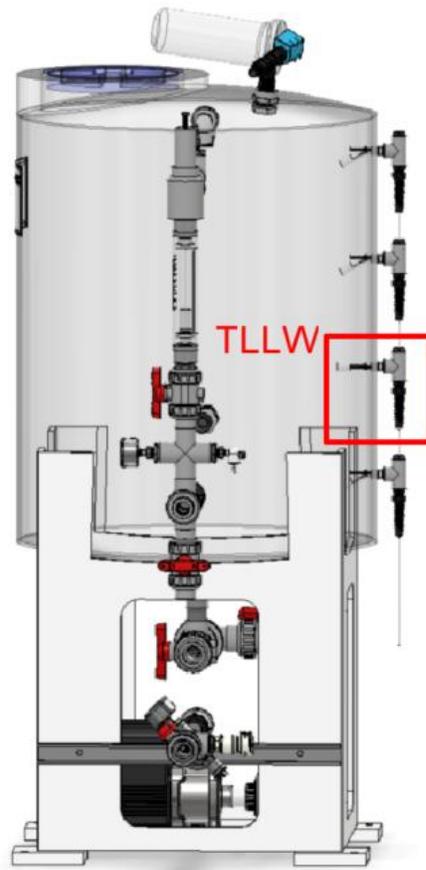
AmeriWater's Endotoxin Filter comes with pre-installed and plugged tees located on the outlet of the filter assembly. Ensure that the system is depressurized. You will need to remove the plug from the end of the tee then install a the final water quality sensor where the plug was removed.

3.1.9 Wiring the 10-pin connector

Reference the RO manual for how to wire the male side of the connector. The 10-pin connector has the ability to control anti-scalant and RO health communication. Depending on what is included in your package you may not need to wire certain parts, or any at all.

After wiring, connect the male side of the connector to the female located on the top of the RO controller.

3.1.10 Wiring the Tank Low Float Switch



The tank low level float switch will come pre-installed. Feed the wire into the remote monitoring controller through the open hole located in the bottom center strain relief. Once inside, wire it to the position level nuts hanging loose inside the controller. Refer to Section 3.9.

4 CONTROLLLER

4.1 OPERATION

The controller has two modes of operation, RUN and SETUP.

- RUN: This mode is for normal operation. In the RUN mode the display will show each system parameters. If an alarm is present, the alarm box will flash and show how many alarms are active. No setting may be entered or changed in the RUN mode. Readings are updated every 2 seconds on the screen.
- SETUP: This mode is used to adjust settings and readings on the controller. To access the SETUP mode, press the SETUP/RUN button from the RUN screen.

4.2 CONTROLS

The controller comes pre-configured with all set-points. A designated user of the controller will be able to change date/time, alarms, and can view history.

You can change the date by:

- Press "Setup/Run"
- Press "Configure"
- Enter your password
- Press "Date/Time"

You can also change the date/time by pressing the date and time area at the top of the screen.

Press the selection you wish to change.

4.3 ALARMS

NOTE: All alarms are for information only. These alarms do not control your system or prevent water supplied to the point of use.

Parameter	Description
Product Conductivity Limit	If the RO product conductivity above 50 μ S for 10 seconds, the controller will send an alert to the user(s).
DI Resistivity Alarm	When the resistivity sensor indicates water under 1 MOhm for 10 seconds the alarm will trigger.
Final Water Quality	If the Final Water Quality above 10 μ S for 10 seconds, the controller will send an alert to the user(s).
Pressure Low Alarm	When any of the pressure transducers read less than 10 psi an alarm will trigger.
DP High Alarm	When any of the Differential Pressures (DPs) across one of the filters is above 15psi an alarm will trigger.

4.4 STANDARD SETTINGS

Setting	High Alarm	Low alarm	Delay
Conductivity Limit	50 μ S	None	10 seconds
Resistivity Alarm	None	1 Meg-ohm	10 seconds
Final Water Quality	10 μ S	None	10 seconds

4.5 ADJUSTING SET-POINTS

4.5.1 Conductivity Alarm Set-point

To change the alarm set-point on your controller navigate the screens as follows:

- Press "Setup/Run"
- Press "System 1" or "System 2"
 - System 1 for RO Conductivity Probe
 - System 2 for Final Water Quality Probe
- Press "System COND1"
- Press "Setpoints"
- Press "High Alarm"
- Insert your desired value.
*Default recommended value is 10 μ S.

4.5.2 Primary DI Time Delay

To increase the amount of time it takes before Primary DI sensor triggers an alarm on the remote monitoring panel you must locate the Hydro Check Relay module on the wall.

<p>Remove the four screws on the corner of the cover then remove the cover.</p>	 A photograph of the front cover of a Hydro-Check Systems, Inc. Hy-lite Relay Module with Time Delay. The cover is light blue with black text and features four black screws at the corners, each circled in red. The text on the cover includes the company name and phone number, the product name 'Hy-lite Relay Module with Time Delay', and two directional arrows: 'From Hy-Lite' pointing up and 'Pass-Thru To Remote Alarm Module (Optional)' pointing down.
<p>Inside the relay module locate the timer delay dial in the top left corner.</p> <p>Each dashed white line represents 10 seconds with a range from 0 – 100 seconds. Adjust to your desired delay. A flathead will be needed in order to rotate the dial.</p> <p>Default is 10 seconds.</p>	 A close-up photograph of the internal circuit board of the relay module. A circular timer delay dial is circled in red. The dial has a white arrow pointing to the number 10 on a scale from 0 to 100. Below the dial is the text 'SECONDS DELAY'. Other components on the board include a transistor labeled 'Q1', a terminal block 'TB1', a resistor 'R5', a capacitor 'CR1', and a 12F508 capacitor.

4.5.3 DI Resistivity Alarm

The DI resistivity sensor reads the water quality post DI filter.

The resistivity sensor will trigger an alarm and show a red light when the quality is less than 1 MOhm. It will send this alarm to the remote monitoring panel.

4.5.4 Differential Pressure Alarm Set-point

Some kits come with pressure sensors to monitor differential pressure (DP) across filters. It may be necessary to adjust DP alarm values when changing filters.

After installing the new filter calculate the differential pressure on the new filter and then add 15 psi. This will give you the new DP alarm value for your new filter.

(i.e. If the inlet pressure is 150 and the outlet pressure is 140 then your new DP alarm value is 25 psi ((150 - 140) + 15)).

***** Do this for every filter DP that your controller is monitoring. *****

Now that you have a new DP alarm value follow these steps to update the controller:

- Press "Setup/Run"
- Press "Customize"
- Press "Notepad"
- Press "System 1"
- Press the Notepad DP that you want to update.
- Press "Alarms"
- Press "HI Value"
- Enter your calculated DP
- To update another DP, press the back button twice. Otherwise, you can press the "Setup/Run" button to return to the Run screen.

4.6 CALIBRATION

- Conductivity: To calibrate the conductivity reading, remove the electrode from the line and wipe the flat surface with a clean cloth. Fill a cup with a known water solution (tested from a calibrated handheld tester). Place the probe in the cup and agitate the water slightly with the probe. Be sure to allow the reading to stabilize for one minute.
 - Press "Setup/Run"
 - Press "System 1" or "System 2"
 - System 1 for RO Conductivity Probe
 - System 2 for Final Water Quality Probe
 - Press "Calibration"
 - Press "System Cond"

 - Press "Calibrate"
 - Note** that the controller will only accept new values that range from 1/3 to 8x the present reading. Any entry outside this range will cause a default to original reading.
 - Enter corrected conductivity value.
 - Press "Enter" to log that reading.

- Pressure: For select models, with pressure transducers, you can calibrate the pressure transducer using the pressure gauge as a reference on the same line.
 - Press "Setup/Run"
 - Press "mA Signals"
 - Press "mA In Calibration"
 - Select desired input
 - Press "Offset"
 - Note** that offset can only be changed by $\pm 10\%$ of the original value.
 - Enter corrected pressure value
 - Press "Enter" to log that reading

4.7 CONDUCTIVITY ELECTRODE CLEANING PROCEDURE

1. Record the current conductivity reading.
2. Turn off water flow through the electrode loop, bleed pressure from the line and remove electrode.
3. Use a clean cloth and a mild cleaning solution to remove loose dirt etc., from the flat surface of the electrode.
4. If the electrode has deposits such as scale attached to the electrode surface, a more aggressive cleaning approach will be needed. There are several ways to do this, the preferred method being the one that is easiest for the user.
 - a. Use a mild acid solution to dissolve deposits.
 - b. Lay a piece of sandpaper (200 grit or finer) on a flat surface such as a bench top. "Sand" electrode to remove stubborn deposits. Do not wipe the surface with your finger. Oil from your skin will foul carbon tips.
5. Reinstall the electrode in the system. After the reading stabilizes, calibrate the unit to a reliable test reading.

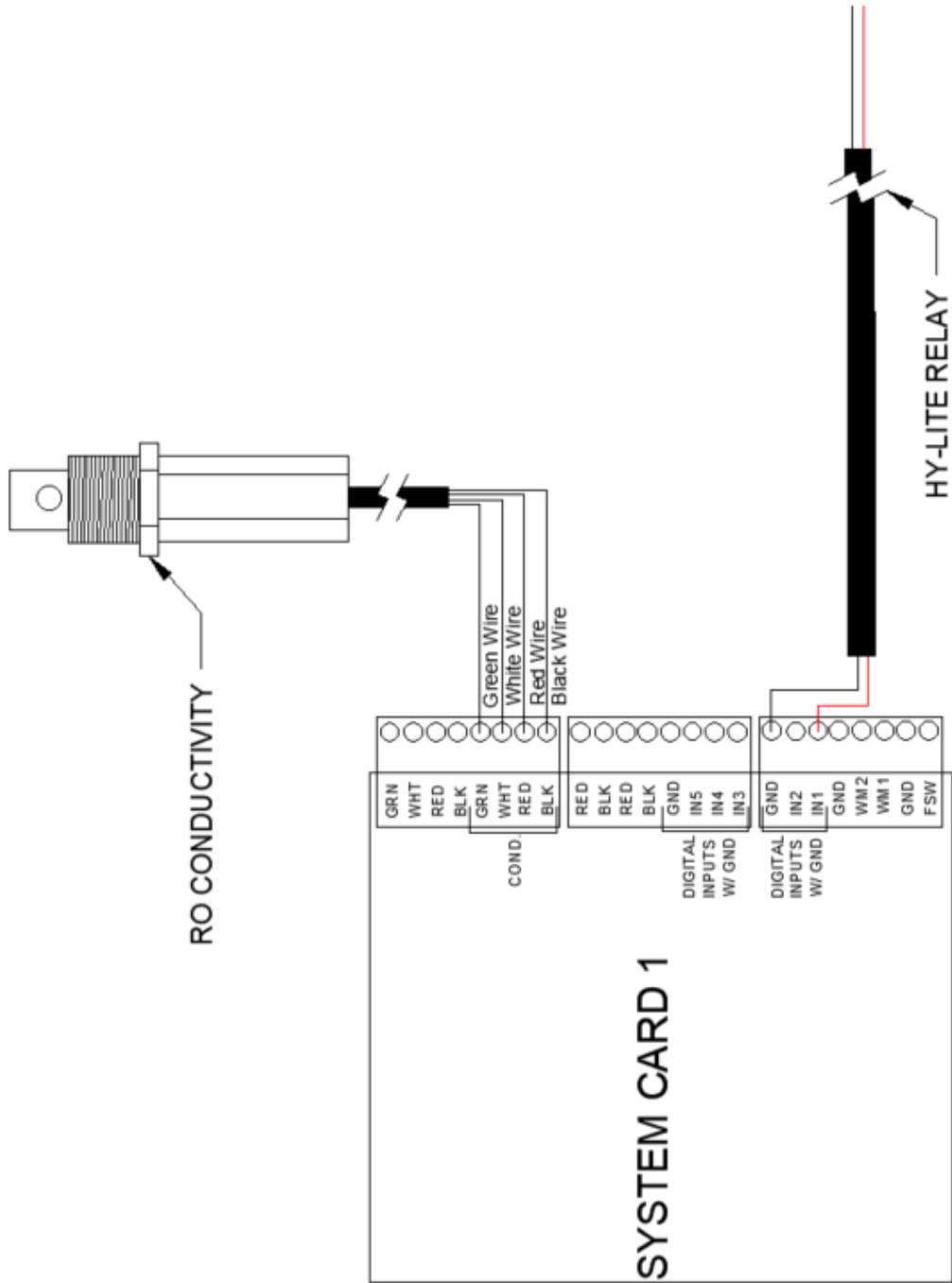
Many times, an electrode can appear to be clean, but the unit still cannot be calibrated. If this is the case, use one of the more aggressive electrode cleaning procedures listed in step 4 above. Recheck the calibration after completion of this procedure. If no change was observed in the reading, replace the electrode

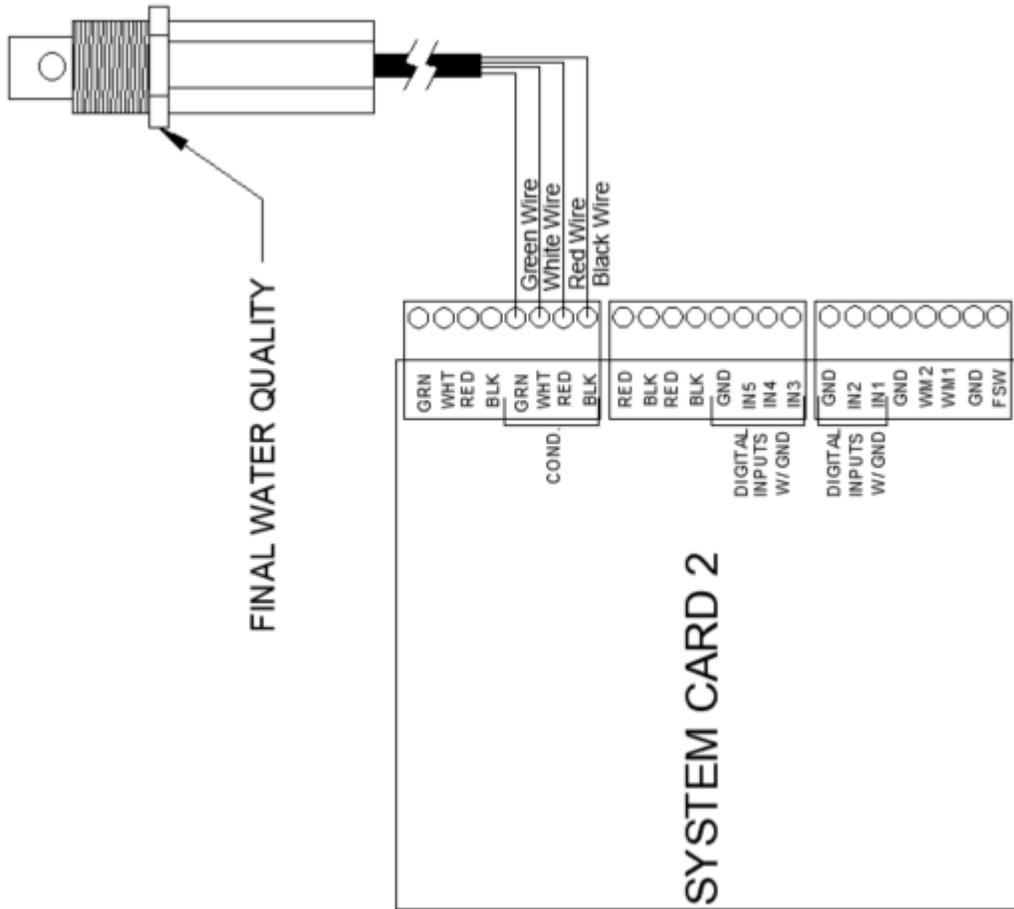
4.8 MAINTENANCE

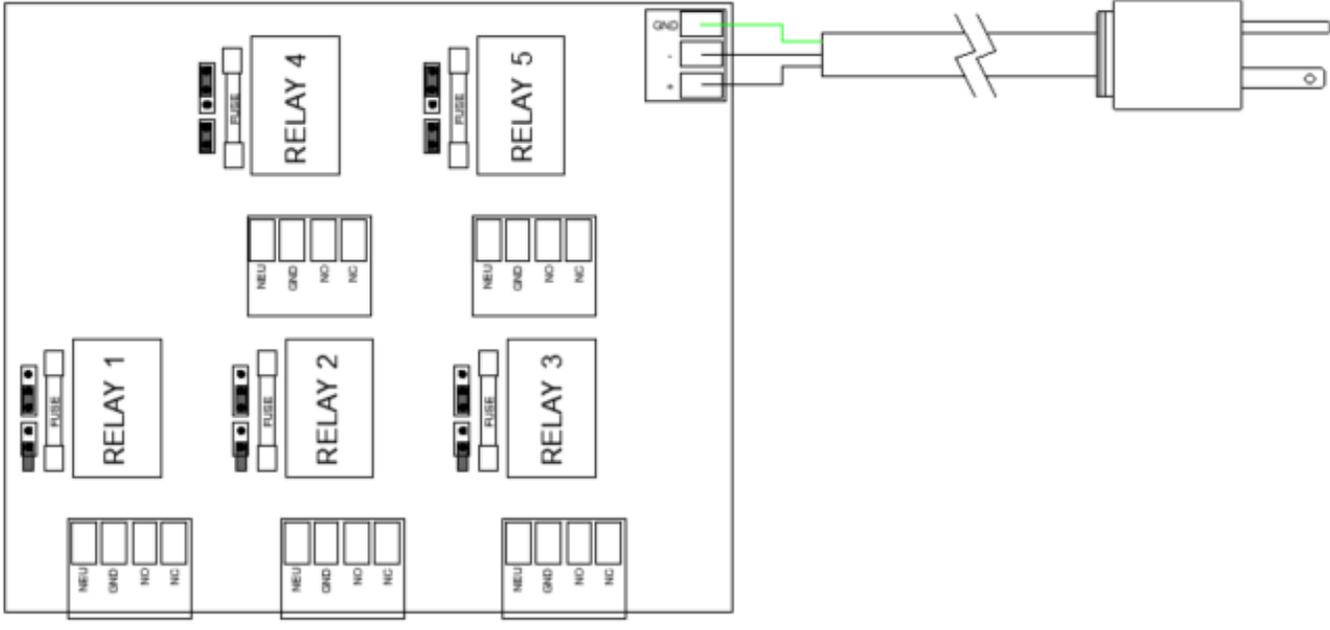
Frequency	Monitoring
Yearly	Verify values of conductivity, pressure, and resistivity sensors are within 5% of calibrated meter reading.

4.9 CONTROLLER SCHEMATICS

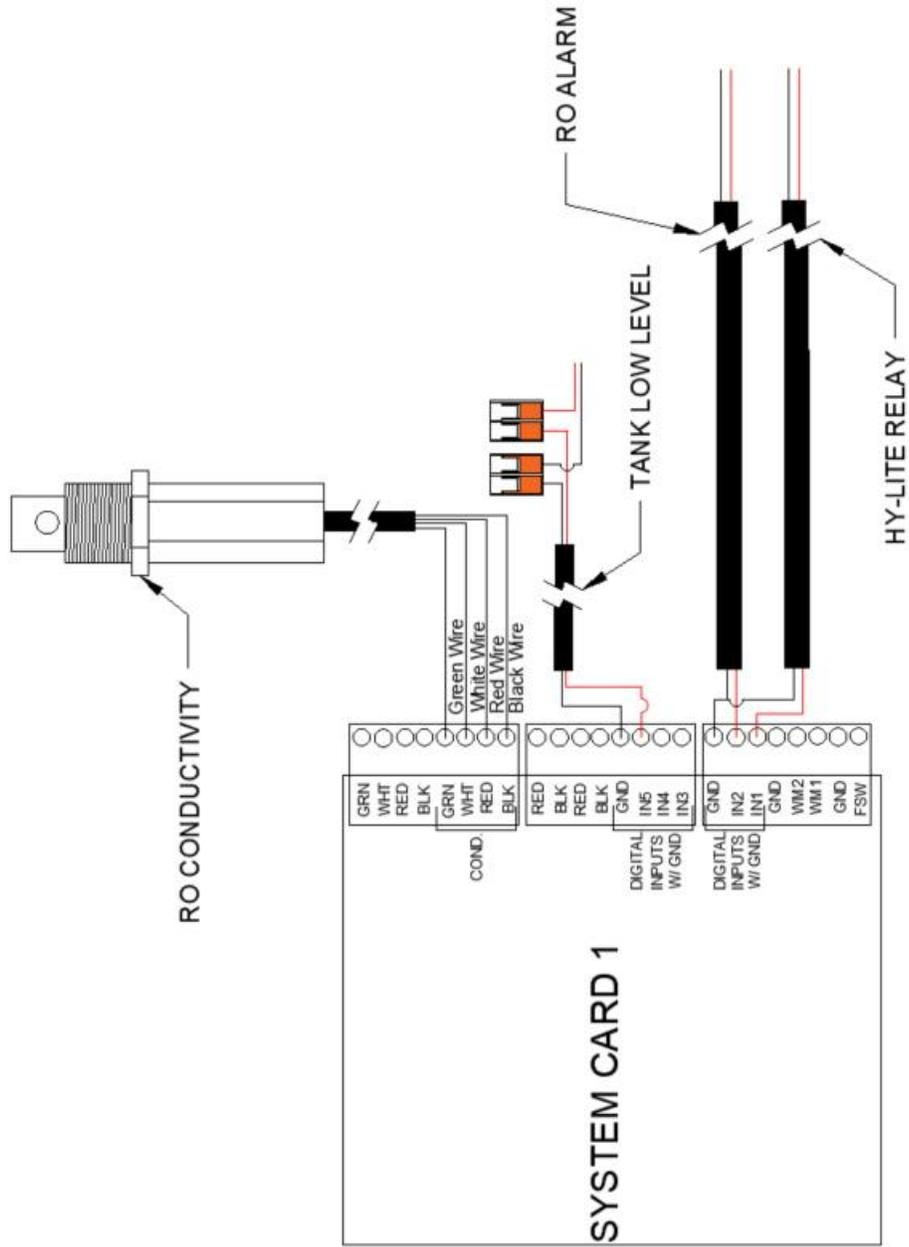
00RM-0001

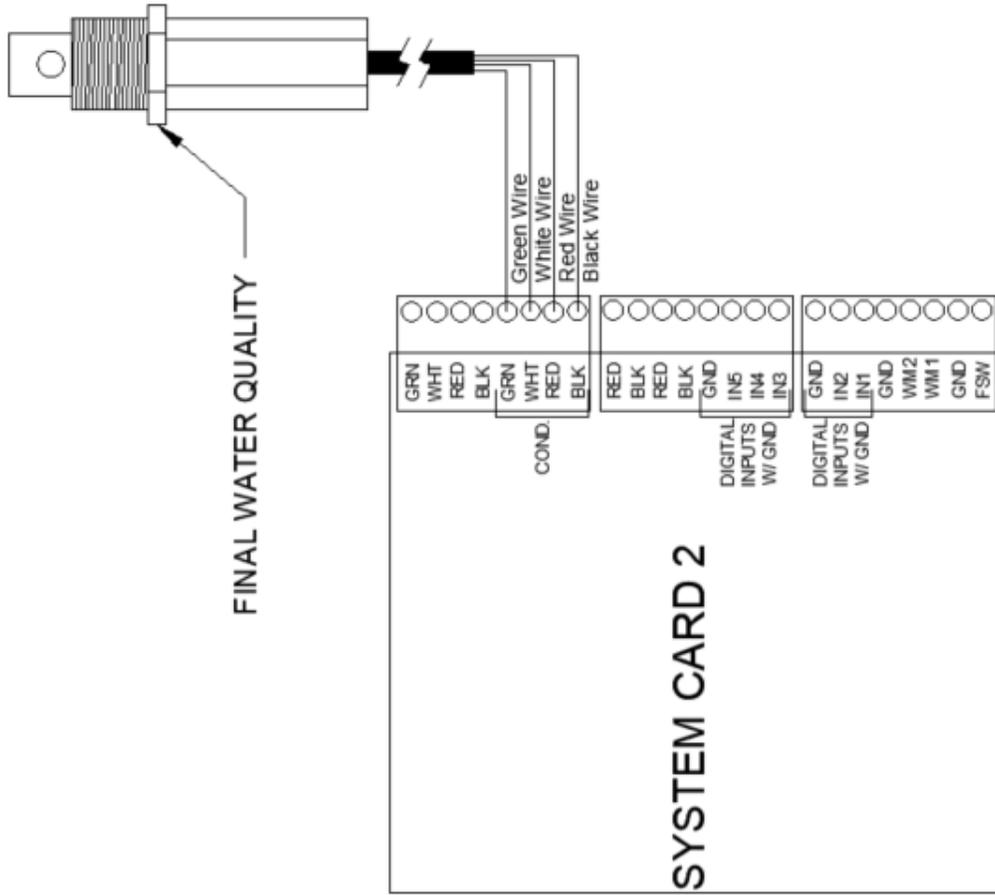


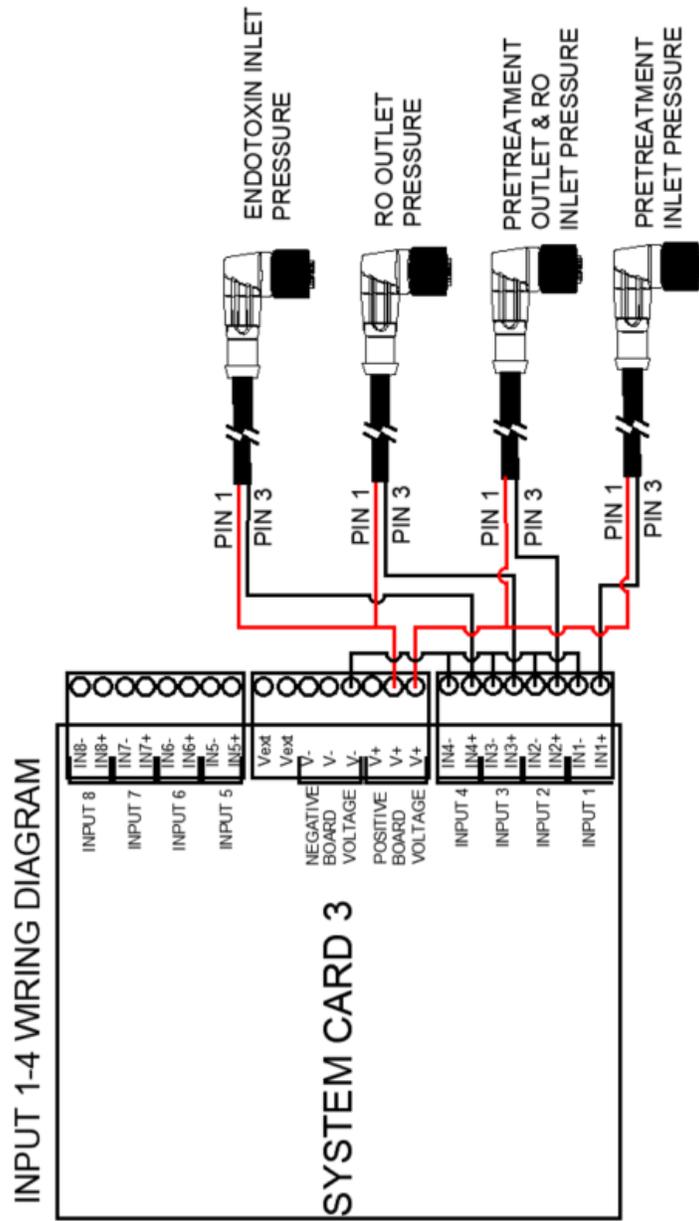


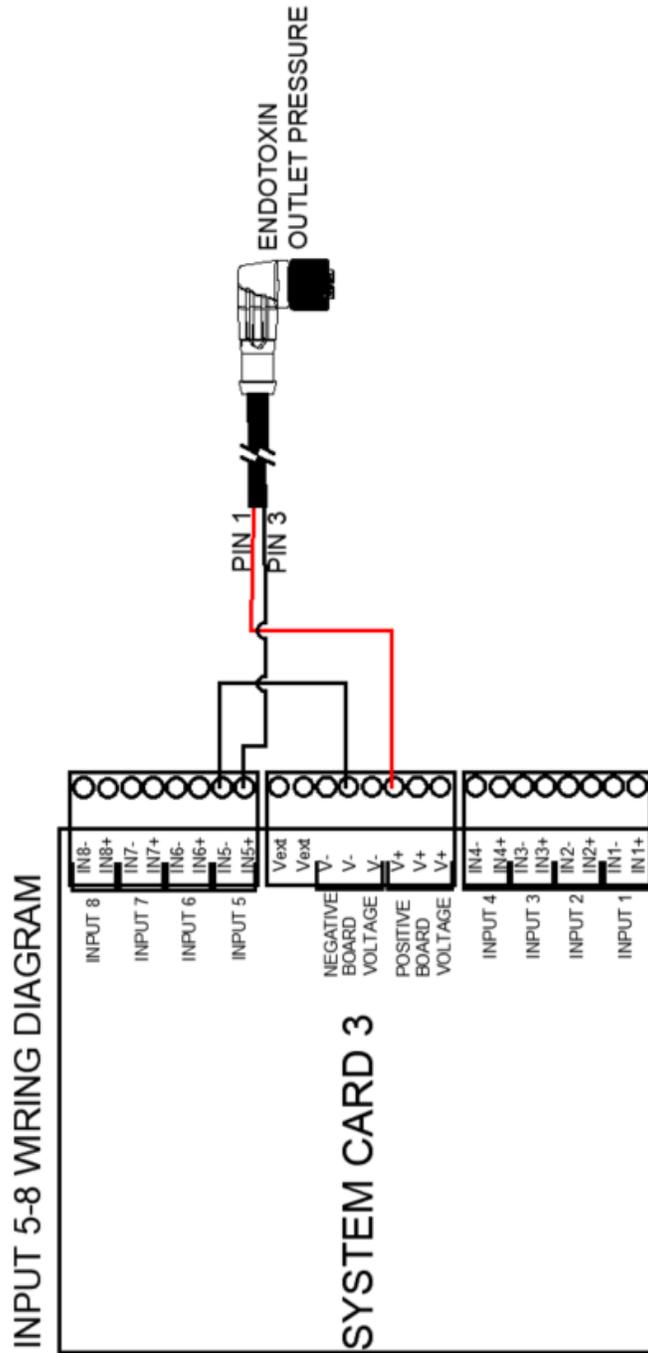


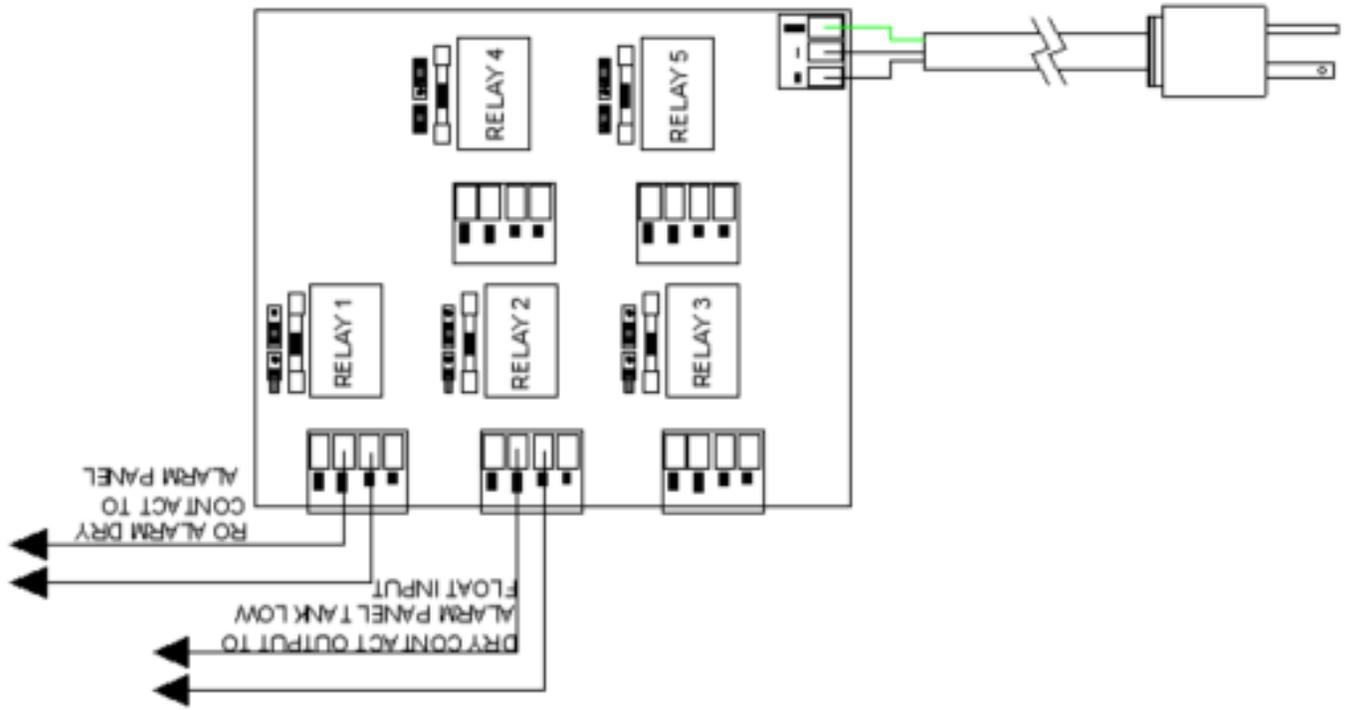
TRIDENT PLUS











5 WEBADAVANTAGE

5.1 System Start Up

The controller's software comes pre-configured for all system sensors and has been initially linked to the online portal. After mounting the controller, installing all sensors, connecting the ethernet cable, and applying power to the controller, the network configuration will need updated. explained in Section 5.1.1.

5.1.1 Network Connection

1. Determine if your controller will be using a Dynamic (Default) or Static IP address. You will need to make sure the controller is configured to your use case. From the run screen:
 - Press "Setup/Run"
 - Press "Configure"
 - Press "Network"
 - Press "WA Network"
 - Press "DHCP"
 - a. Enabled = Dynamic IP.
 - b. Disabled = Static IP.
 - i. If you select static IP you will need to go to the "Settings" selection on the Network screen to assign an IP address, IP Subnet mask, Gateway, and Primary DNS for the controller.
2. Once configured go back to the "Network" screen and select "Reset" then "Enter" to re-configure the network settings. Once the network card has been reset turn the controller off for at least 10 seconds and then turn it back on.
3. When it returns to the main screen you will see two letters in the bottom center of the screen. This is the status code of the network/ethernet connection. See the below section to determine the current connection state. For a static IP you want to see a "SC" and for a dynamic IP you want to see a "DC".

Note: this may take up to a couple of minutes to connect.

5.2 Online User Access

Online user access allows the user to: monitor current system status, view current system alarms, create recurring reports, and view reports. Access to this portal requires authorization from AmeriWater or a device administrator.

5.3 Live Data Viewing and Reports

The online service allows the user to check in on the status of the controller and sensors, historical data of the sensors, and create reports.

5.3.1 Status of the controller and sensors

After signing in you will see all controllers assigned to you on the main page as shown in the image below. If you do not see one of your controllers, ask your device administrator for user access. You can call AmeriWater if you are not sure who the device administrator is.



The status column will indicate if the controller is connected or disconnected to the internet. If a controller is not connected to the internet, you will not be able to view the live data. You can still access reports.

To view the values of the sensors you can click the blue “Graphical” selection of the desired controller. Clicking the blue “Text” selection will show you all the sensors current information including setpoints, alarm notifications, and unit of measure. Once you enter this page you will need to reload it to get updated values.

To view reports from this page you can click the blue file symbol in the report’s column. This will show you all the reports for that controller.

5.3.2 Reporting

You can create as many reports as desired. You can use AmeriWater’s standard report template(s), or you can create your own custom report template. These reports can have any of the system parameters plotted onto the graph (probe readings, relays, alarms, notepad entries).

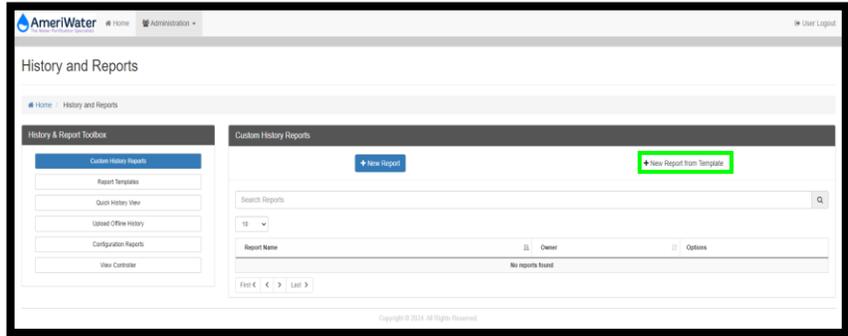
Use the following steps to create a report from the AmeriWater template:

Step 1:

Go to the reports section of the desired controller.

Step 2:

Click "New Report from Template".



Step 3:

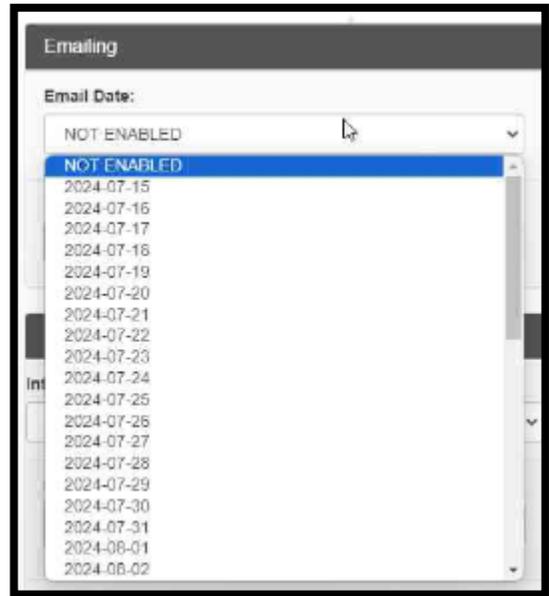
Click the "User Templates" drop down menu and select the "AmeriWater Standard Report".



Step 4:

To enable automatic emailing on this report, click the "Email Date" drop down menu.

If you do not enable this feature, then this report will be a one-time report covering the interval selected in Step 5.



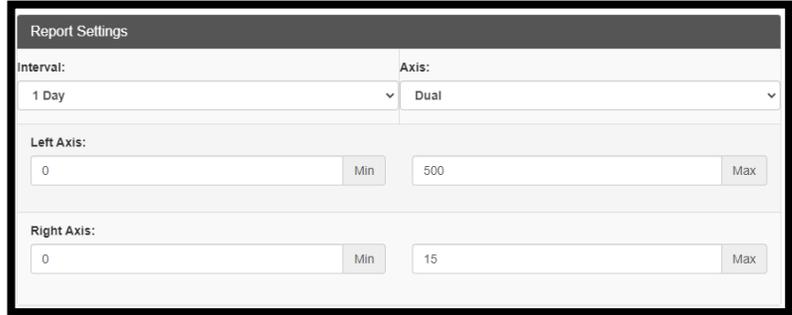
Note: If there is ever any projected downtime of the controller you will want to go into this report and change the email date to the next date that the controller will be online. This way there isn't a backlog of email reports that get sent all at once when the controller comes back online.

Step 5:

In the "Report Settings" section you will want to select the interval at which you want the graph to show.

The default and AmeriWater recommendation is 1 day. Reports show in 1-minute intervals.

The axis settings allow the template to tie all the lower numbered values to the right axis and the higher numbered values to the left axis.



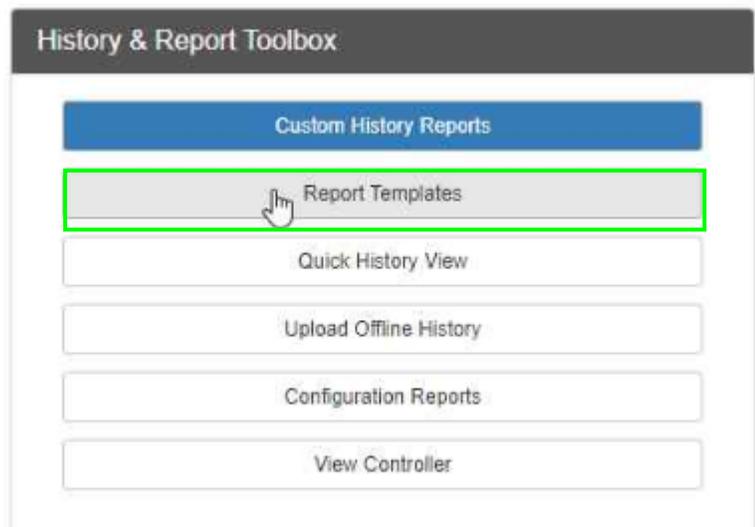
Step 6:

Once you have finalized all your preferred settings, scroll to the bottom of the window and click submit to create your report.

Use the following steps to create a custom report template:

Step 1:

Go to the reports section of the desired controller.



Step 2:

Click "Report Templates".

Step 3:

Click "New Template".



Step 4:

In the "General" section insert the desired Template Name and select user for permissions.

General

Template Name: New Template

Permissions: User

Step 5:

To enable automatic emailing on this report, click the "Email Date" drop down menu.

If you do not enable this feature, then this report will be a one-time report covering the interval selected in Step 6.

Emailing

Email Date: NOT ENABLED

- NOT ENABLED
- 2024-07-15
- 2024-07-16
- 2024-07-17
- 2024-07-18
- 2024-07-19
- 2024-07-20
- 2024-07-21
- 2024-07-22
- 2024-07-23
- 2024-07-24
- 2024-07-25
- 2024-07-26
- 2024-07-27
- 2024-07-28
- 2024-07-29
- 2024-07-30
- 2024-07-31
- 2024-08-01
- 2024-08-02

Step 6:

In the “Template Settings” section you will want to select the interval at which you want the graph to show.

The default and AmeriWater recommendation is 1 day. Reports show in 1-minute intervals.

The axis settings allow the template to tie all the lower numbered values to the right axis and the higher numbered values to the left axis.



Step 7:

Once you have finalized all you preferred settings, scroll to the bottom of the window and click submit to create your report.

5.3.3 Receiving Notifications via Email or Text

You can set up a user to receive alarm notifications via email or text. Follow these steps:

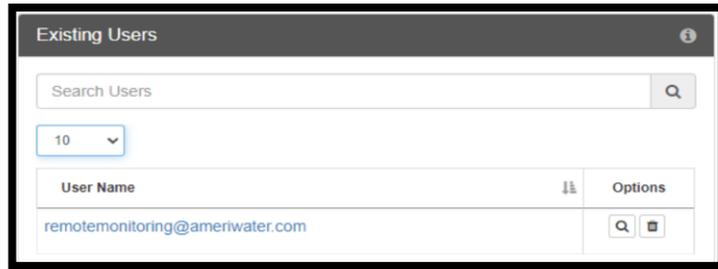
Step 1:

Select the administration drop down menu and click “Manage Users”.



Step 2:

Select the existing user that you would like to set up for email and text notifications



Step 3:

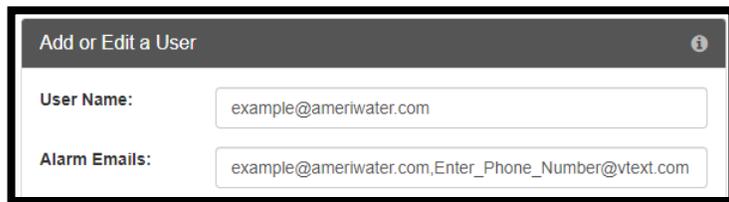
When a user is chosen selected the "Add or Edit User" window which will show the user information. In the "Alarm Emails" box enter the email.

If you need an alarm to be sent via text, most USA based phone carriers have an email address assigned. Adding this particular email address to the user's profile alarms is typically the phone's 10-digit number @ a particular carrier base address.

Examples:

1234567890@vtext.com (Verizon)

1234567890@txt.att.net (AT&T)



6 SPARE PARTS LISTING

Part	Part Number
Conductivity Sensor	69-0096
Pressure Transducer	68-0021
Position Level Nut	066-0027
Hydro Check Relay Module	75679127
Hy-lite Telephone Cable	75679143

7 Diagnostics

Diagnostics for controller error

Alarm	Reason	Checks	Proposed Actions
The sensor value is showing a pound sign, "#", instead of a number.	The controller is not reading any value from the sensor.	1) Cable on sensor is not secure. 2) Wires are not securely terminated inside the controller.	Verify connection at the sensor and inside the controller.
Controller is not connected to the online portal.	1) The controller is not connected to Ethernet, Wi-Fi, or Cellular. 2) The controller is being blocked by the network.	1) Follow section 5.1.1 to ensure that the controller is connected to the internet. 2) Ensure that your IT department is allowing data communication, laid out in Section 5.1.2.	

Diagnostics for values out of range

Alarm	Reason	Checks	Proposed Actions
RO Conductivity Alarm	The RO conductivity has exceeded the set-point.	1) Verify conductivity against the RO conductivity. 2) Verify the conductivity setpoint is 50 μ S.	1) Allow RO time to flush down to quality. Complete a RO membrane cleaning. 2) Replace RO membranes.
Primary DI Resistivity Alarm	The primary DI resistivity sensor indicates an exhausted DI.	1) Check the hydro-check light is red. 2) Check the resistivity with a handheld meter.	1) Call AmeriWater for DI replacement.
Final Water Quality Alarm	The final water quality has exceeded the set-point.	1) Verify conductivity against final water conductivity. 2) Verify the conductivity setpoint is 10 μ S. 3) Check pressure DP across the endotoxin.	1) Replace the endotoxin filter.
Pre-filter DP Alarm (If applicable)	The pre-filter has exceeded the set-point.	1) Check the DP set-point. 2) Verify the DP using the gauges.	1) Replace the filter.
RO filter DP Alarm (If applicable)	The RO filter has exceeded the set-point.	1) Check the DP set-point. 2) Verify the DP using the gauges.	1) Replace the filter.

Diagnostics

Endotoxin DP Alarm (If applicable)	The endotoxin filter has exceeded the set-point.	1) Check the DP set-point. 2) Verify the endotoxin DP using the gauges.	1) Replace the filter.
Storage Tank Level Alarm	The storage is at a low level.	1) Check that the RO is not in alarm status.	1) Check that RO is producing and sending water to the tank.
RO Alarm Signal	The RO is in an alarm state.	1) Check the RO Conductivity. 2) Check the RO inlet pressure.	1) Allow the RO time to rinse down to quality. 2) Rectify the low inlet pressure.

CALIFORNIA PROPOSITION 65

WARNING

This product can expose you to chemicals such as vinyl chloride (used in the production of PVC) or Nickel (used in the production of stainless steel), that are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Dear Valued Customer,

California Proposition 65 (Prop 65) is the Safe Water and Toxic Enforcement Act of 1986. The State of California began enforcing amendments to California Prop 65 at the end of August 2018. Prop 65 requires manufacturers to provide a clear and reasonable warning to residents of California about chemicals used in products that they purchase that are included on the Prop 65 Chemical List. The chemicals included on the list are chemicals that are known to the State of California to cause cancer, birth defects, or other reproductive harm. One such chemical is Vinyl Chloride, a compound used to produce Polyvinyl Chloride (PVC). The AmeriWater system you have purchased may contain PVC or stainless steel parts.

While warnings are only required in the State of California, AmeriWater has initiated the use of Prop 65 labeling for all products to ensure compliance with California regulations. Please note that the above warning does not necessarily mean that the product that you have purchased is unsafe. Products that have been cleared for market by FDA have been determined to be safe and effective by the United States Food and Drug Administration. The warning is simply a requirement by the State of California. If you wish to obtain additional information, please visit: p65warnings.ca.gov. You may also contact your AmeriWater representative if you have any questions.

Thank you for your understanding and we look forward to continuing to serve you.