



SENTRYX™ PLATFORM QUICK START GUIDE

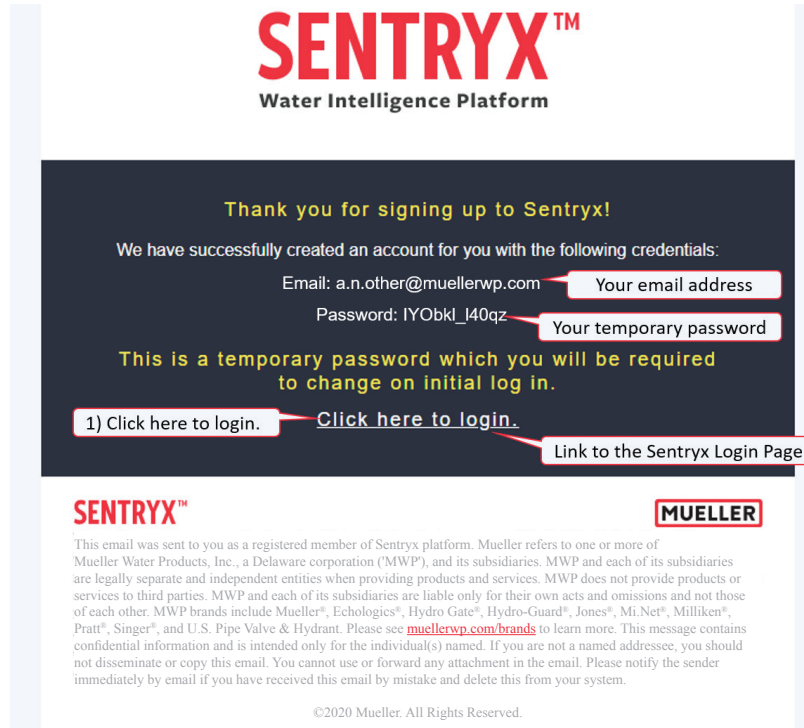
A User Guide to Sentryx Platform for Customers with Pressure and Water Quality Devices

CONTENTS

- **Getting Started**
- **Sentryx Platform Overview**
 - Navigation Bar
 - Map Controls
 - Device Selection Pop-up
 - User Profile Page
 - Forgot Password
 - Administration Page (Admins Only)
- **Sentryx Table Controls**
 - Device Table
 - Device Table - Column Selector
 - Device Table - Filters
- **Sentryx Notification Center**
 - Notification Bell
 - Notification Center - Main Page
 - Notification Center - Subscriptions
 - Notification Center - Add Subscriptions
- **Sentryx Pressure and Water Quality Features**
 - Home Page
 - Device Details Page
 - Device Details Page - Schedule Actions
 - Device Details Page - Configuration Settings
 - Device Details Page - Logs

GETTING STARTED

When an admin has created your account, you will receive an email with a temporary password as shown below:



1. Click the “Click here to login” link in the email and you will be taken to the Sentryx platform Login Page.

RECOMMENDED BROWSERS:



Google Chrome



Mozilla Firefox

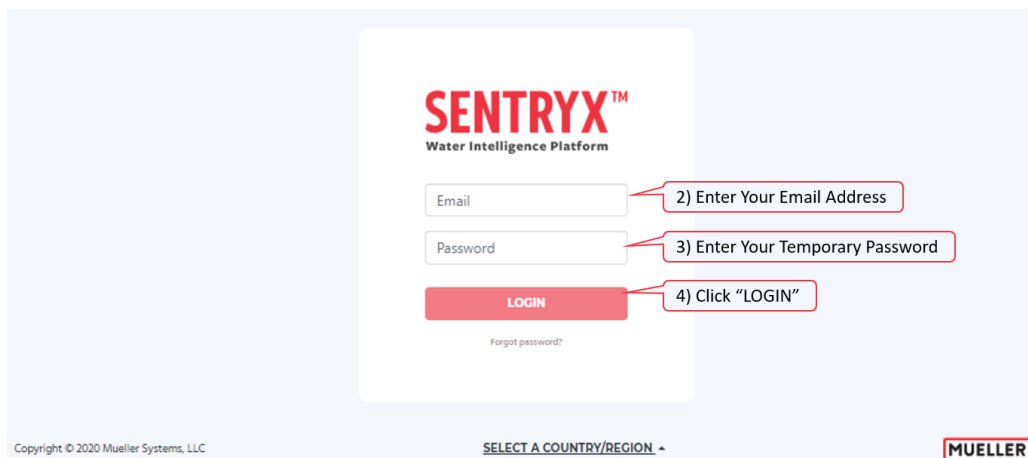


Safari



Microsoft Edge

The Sentryx platform does not support Internet Explorer.



2. Enter your email address in the “Email” field.
3. Enter your temporary password in the “Password” field.
4. Click “LOGIN”, and then change your password using the following password rules. Valid passwords must meet all the conditions listed.

Password Reset

Conditions

- ✓ At least 12 characters
- ✓ At least one lower case letter e.g. (a, b, c, d)
- ✓ At least one uppercase letter e.g. (A, B, C, D)
- ✓ At least one number e.g. (1, 2, 3, 4)
- ✓ At least one special character e.g. (@ # \$ %)

Passwords expire in 90 days

5) Your User Name (email address) should appear here.

6) Enter a new password

7) Reenter your new password

8) Show/Hide Password

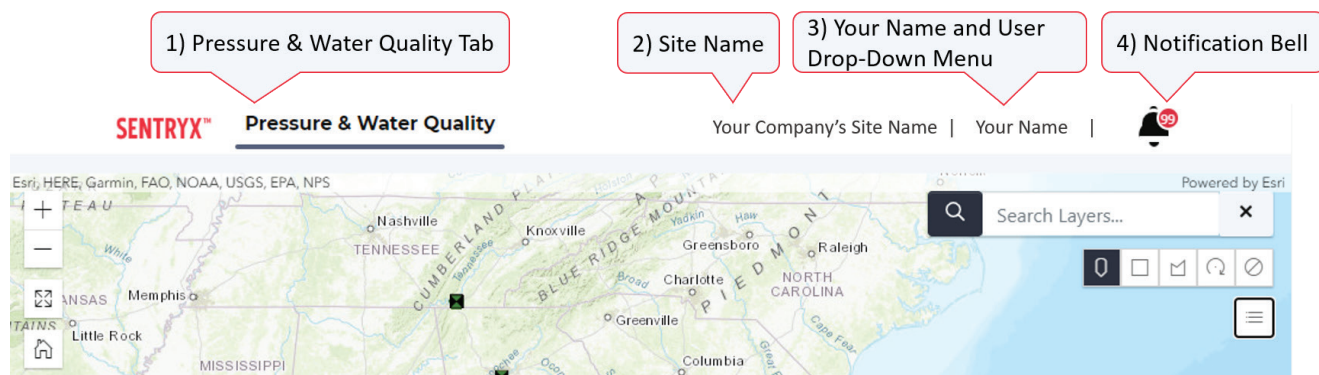
9) Click "SUBMIT"

Your password must meet ALL these requirements.

5. Your User Name (email address) should appear in the first field.
6. Enter a new password.
7. Reenter your new password.
8. Use this control to Show/Hide what you have typed.
9. Click "SUBMIT".

SENTRYX PLATFORM OVERVIEW

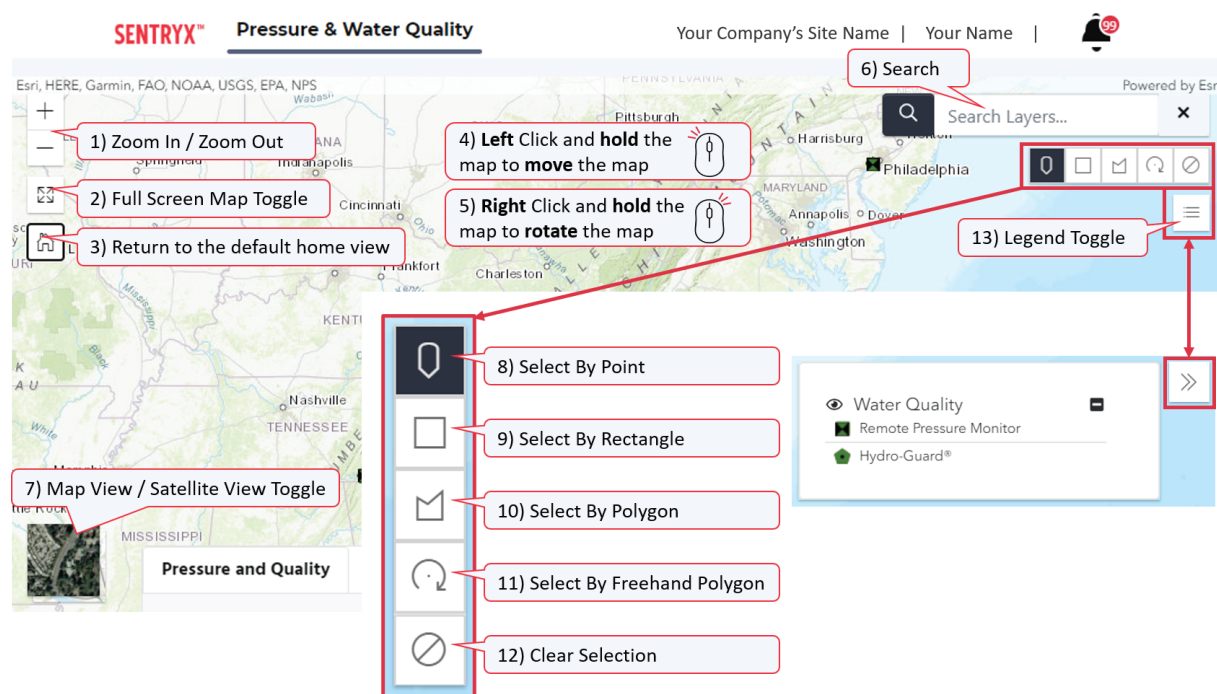
NAVIGATION BAR :



1. The Sentryx™ Water Intelligence Platform can be used with multiple types of Mueller products. Tabs will appear on the navigation bar for each family of products for which your site is configured.
2. Most utilities manage one municipality or "Site"; however, the Sentryx platform will allow a utility to manage multiple sites from the same application.
3. Your name will appear at this location and if clicked will show the User Drop-Down Menu which will help you navigate to
 - a. Profile – allows you to edit your profile information
 - b. Sites – if you have access to more than one site
 - c. Admin – if you are a Sentryx platform administrator, you will have this option
 - d. Logout

- The Sentryx platform has a notification center. The number in the red circle indicates the number of unacknowledged notifications. Clicking this bell will display the most recent three (3) unacknowledged notifications for each area of the application as shown in the Notification Bell section of this document.

MAP CONTROLS:

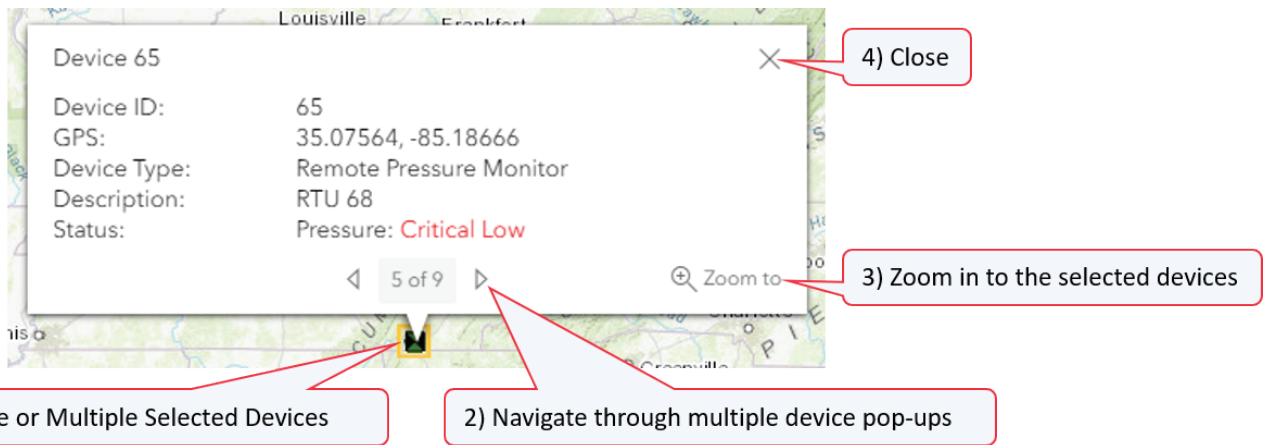


- Zoom In / Zoom Out – Use the “+” to zoom in on the map and the “-” to zoom out on the map.
- Full Screen Map Toggle – Click this icon to view the map in full screen mode without the table. Click the icon again to return to the map/table view.
- Home Map Position: Use the “Home” icon to return the map to the home position and zoom level.
- Map Move – To move the map, click and hold the left mouse button and move the mouse to move the map as desired.
- Map Rotate – To rotate the map, click and hold the right mouse button and move the mouse to rotate the map as desired.
- Search – Use this field to search device information.
- Map View / Satellite View Toggle – Click this icon to toggle between the regular map view and the satellite view.

Selection Tools – cause the Device Information Pop-ups to appear

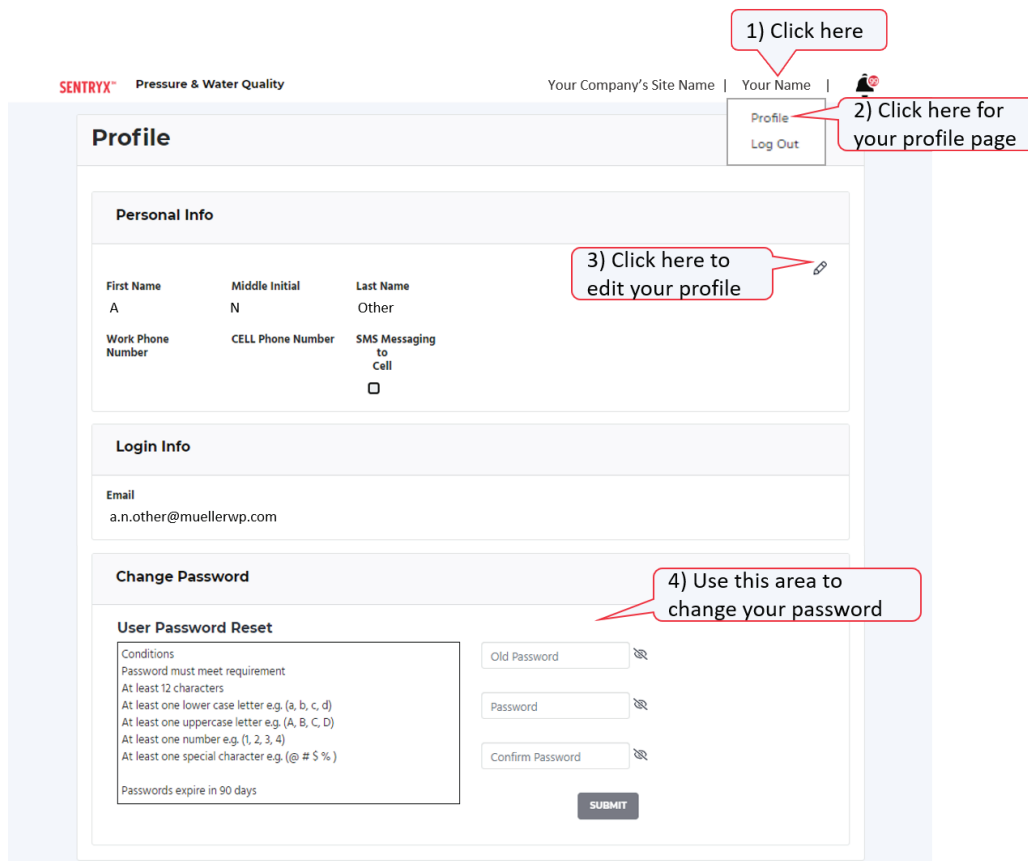
- Point – This selection tool allows you to select one device on the map, or multiple devices if they are at the same location.
- Rectangle – This selection tool allows you to select multiple devices at once by drawing a rectangle.
- Polygon – Draw a three or more-sided polygon to select the devices inside the polygon.
- Freehand Polygon – Draw a freehand shape to select the devices in this shape.
- Clear the previous selection.
- Legend Toggle – Use this icon to show the map's legend.

DEVICE SELECTION POPUP



1. After selecting one or more devices the Device Information Pop-up(s) will appear for all selected devices.
2. When multiple devices are selected, use the arrows to page through the Device Information Pop-ups.
3. Use this control to zoom into the area of the selected device(s).
4. The “X” in the upper right corner will close all the pop-ups and cancel the selection.

USER PROFILE PAGE



1. To view the user menu, click your name in the top navigation bar.
2. Select “Profile” from the User Drop-Down Menu to navigate to your profile page.
3. Click the pencil icon to edit your personal information.
4. Use this area to change your password.

FORGOT PASSWORD

The image shows two parts of the Sentryx login process. On the left is the main login page with the Sentryx logo and 'Water Intelligence Platform' text. It has input fields for 'Email' and 'Password', a red 'LOGIN' button, and a 'Forgot password?' link. A red box highlights the 'Forgot password?' link, with a callout bubble stating '1) Forgot Password Link'. A red arrow points from this link to the right. On the right is the 'Password Reset Request' form. It has an 'Email' input field and a 'SUBMIT' button. A red box highlights the 'SUBMIT' button, with a callout bubble stating '2) Enter Your Email Address and click "SUBMIT"'. A red line connects the 'Email' input field to this callout.

The image shows an email titled 'Sentryx: Verification Code' from 'no-reply@verificationemail.com'. The email body features the Sentryx logo and 'Water Intelligence Platform' text. Below this, a dark blue banner contains the text 'Your verification code is' followed by a red box containing '#####'. A callout bubble points to this box with the text '3) Use this code on the following screen to change your password.' Below the banner, the Sentryx logo is on the left and the Mueller logo is on the right. The email body contains a disclaimer paragraph and a copyright notice '©2020 Mueller. All Rights Reserved.' at the bottom.

Password Reset

Conditions

Password must meet requirement

At least 12 characters

At least one lower case letter e.g. (a, b, c, d)

At least one uppercase letter e.g. (A, B, C, D)

At least one number e.g. (1, 2, 3, 4)

At least one special character e.g. (@ # \$ %)

Passwords expire in 90 days

Your password must meet ALL these requirements.

User Name

Code

New Password

Confirm password

Submit

Password and Confirm Password do not match

4) Your User Name (email address) should appear here.

5) Enter the code from the email

6) Enter a new password

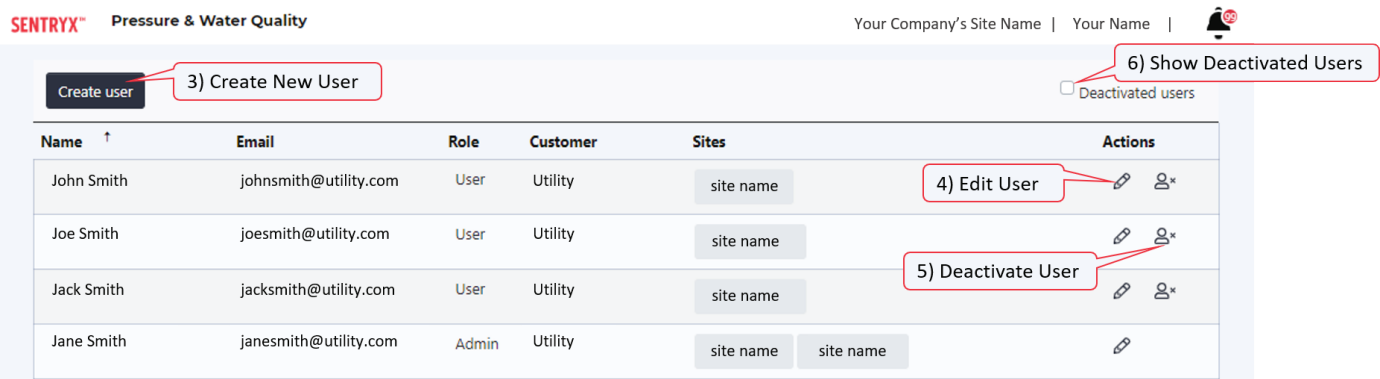
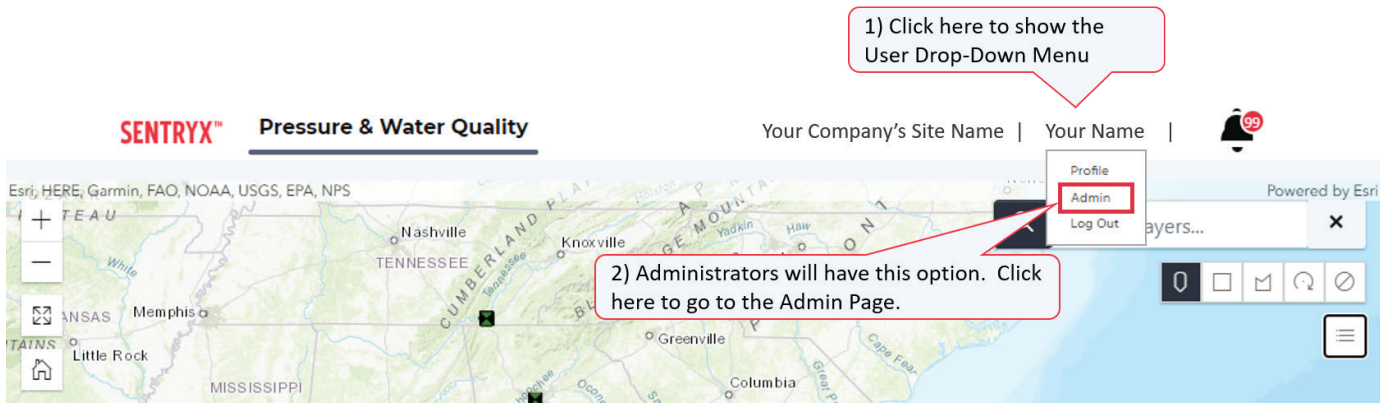
7) Reenter a new password

8) Show/Hide Password

9) Click "SUBMIT"

1. Click the Forgot Password link.
2. Enter your Email Address and click "SUBMIT".
3. Step 2 will cause you to receive an email with a Verification Code in it. Use this code in step 5.
4. Your User Name (email address) should appear in the first field on this form.
5. Enter the code from the email.
6. Enter a new password.
7. Reenter your new password.
8. Use this control to show/hide what you have typed in the password fields.
9. Click "SUBMIT" to change your password.

ADMINISTRATION PAGE (ADMINS ONLY)



1. To navigate to the Admin Page, first click your name to show the User Drop-Down Menu.
2. Then, if you are an administrator, click the “Admin” option.
3. Admins can create users or admins with the “Create user” button.
4. Admins can edit user accounts using the pencil icon and even make the user an Admin.
5. Admins can deactivate a user using the Deactivate User Icon. These users are removed from the default user view.
6. The list of deactivate users can be seen by checking this checkbox.

SENTRYX TABLE CONTROLS

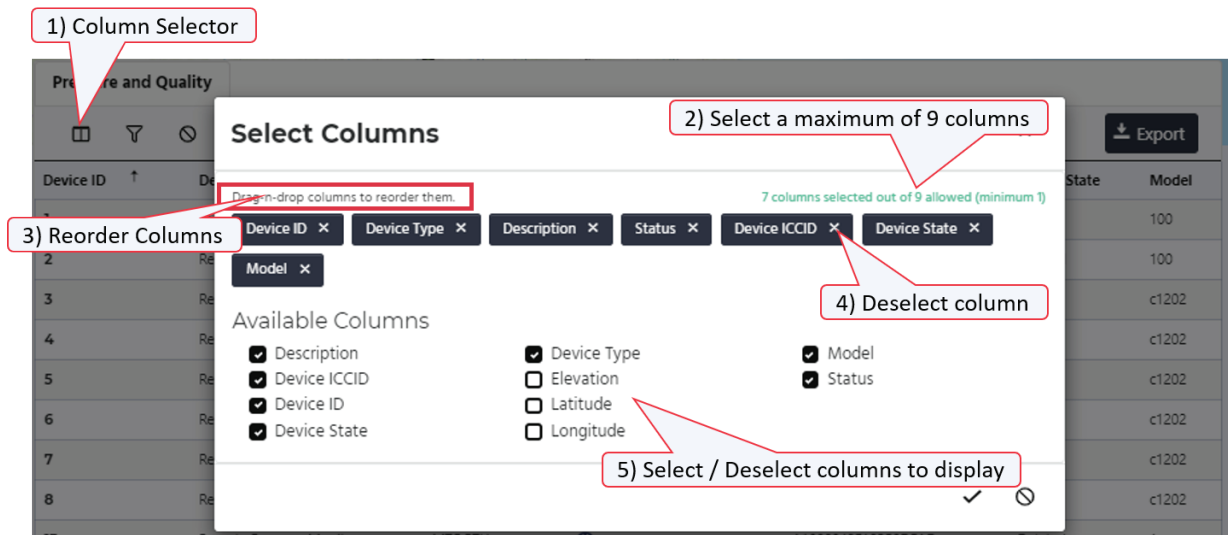
DEVICE TABLE

The screenshot shows a web interface titled "Pressure and Quality" containing a table of device data. Above the table are three controls: a column selector (grid icon), a filter toggle (funnel icon), and a clear all filters button (circle with slash icon). The table has columns: Device ID, Device Type, Description, Status, Device ICCID, and an unlabeled column with numerical values. An "Export" button is located to the right of the table, with a dropdown menu showing "Excel" and "CSV" options. Numbered callouts (1-8) point to specific features: 1) Column Selector, 2) Filter Toggle, 3) Clear All Filters, 4) Sort any column by clicking the column name, 5) Drag-n-drop columns to reorder them, 6) Table Data Export, 7) Export Options, and 8) Click the Device ID to be taken to the Device's Details Page.

Device ID	Device Type	Description	Status	Device ICCID	
1	Hydro-Guard®	device 6		59372837203820123841	Active
2	tor	device 7		B1000042F19350	Deleted
3	Remote Pressure Monitor	device 0		59372837203820123842	Active
4	Remote Pressure Monitor	device 1		59372837203820123843	Active

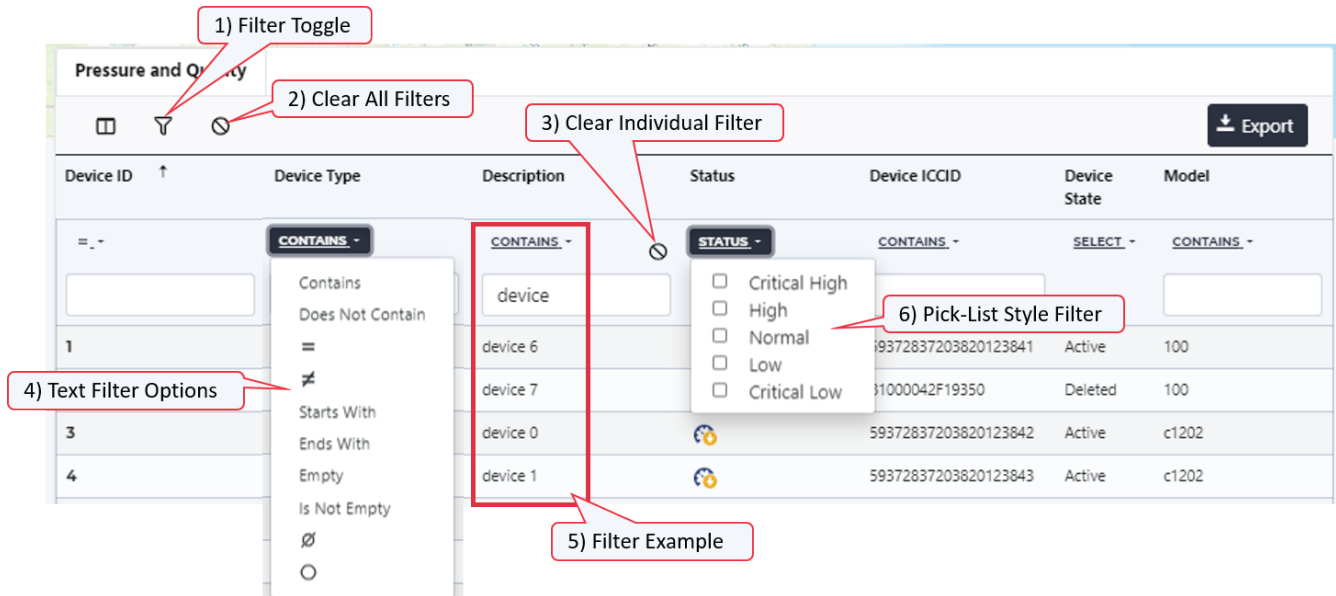
1. Column Selector – Use this control to change the displayed columns in the table.
2. Filter Toggle – Use this control to expose and hide the column filters.
3. Clear All Filters – This control clears all the filters.
4. Any column may be sorted (ascending or descending) by clicking the column name. Click the name a second time to reverse the sort.
5. Click and hold the column name to reorder the columns.
6. The data in the table may be exported.
7. Table data may be exported in Excel or CSV formats.
8. Navigate to a specific Device Details Page by clicking the Device ID.

DEVICE TABLE - COLUMN SELECTOR



1. Column Selector – Use this control to change the displayed columns in the table.
2. Select a maximum of nine (9) columns.
3. Drag-n-drop columns to reorder them.
4. Deselect a column with the “X” icon.
5. Select and Deselect columns to display.

DEVICE TABLE - FILTERS



1. Filter Toggle – Use this control to expose and hide the column filters.
2. Clear All Filters – This control clears all the filters.
3. Clear Individual Filter – A columns filter may be cleared using this control.
4. Text Filter Options – Text Filters have multiple options.
5. Filter Example – The Description column has a CONTAINS ‘device’ filter.
6. Pick-List Style Filter – Some columns have specific values in pick-lists for filters.

SENTRYX NOTIFICATION CENTER

NOTIFICATION BELL

The screenshot shows the SENTRYX NOTIFICATION CENTER interface. At the top, there is a header with "Your Company's Site Name" and "Your Name". To the right of the header is a notification bell icon with a red circle containing the number "99". Below the header is a section titled "Recent Notifications". This section contains a list of notifications under the "Pressure & Water Quality" tab. Each notification entry includes a "site name" (e.g., "QA RPM 6552", "QA - RTU ID 0450 with GPS", "QA RPM 6639"), a "Critical Pressure Condition Off" title, and a date-time stamp "6/19/20, 17:54". A "View All" button is located at the bottom of the notification list. Red callout boxes with numbers 1 through 6 point to specific elements: 1) Notification Bell, 2) Product Family / Functional Area Tab, 3) Brief Details, 4) Notification Title, 5) Notification Date and Time, and 6) Click any notification in this list to go to the notification center to see more information or click "View All".

1) Notification Bell

2) Product Family / Functional Area Tab

3) Brief Details

4) Notification Title

5) Notification Date and Time

6) Click any notification in this list to go to the notification center to see more information or click "View All".

1. Notification Bell – Click this icon to expose the Recent Notifications.
2. Product Family/Functional Area Tab – Recent Notifications are shown under their relevant tabs.
3. Brief Details – Each Recent Notification includes brief details.
4. Notification Title – Each Recent Notification has a title.
5. Notification Date and Time – Each Recent Notification has a date-time stamp.
6. Click any notification in the list to go to the notification center to see more information or click "View All".

NOTIFICATION CENTER – MAIN PAGE

The screenshot shows the SENTRYX Pressure & Water Quality Notification Center. The interface includes a header with the SENTRYX logo, the title 'Pressure & Water Quality', and user information. The main content area is titled 'Notification Center' and contains a table of notifications. The table has columns for Site, Alert Type, Device Id, Device Description, Device ICCID, Value Read, and Alert Time. The first row is highlighted in white (Acknowledged), and the subsequent rows are highlighted in yellow (Unacknowledged). The interface also includes a 'Column Selector' (1), a 'Filter Toggle' (2), and a 'Clear All Filters' button (3). A 'Configurations' button (5) is located in the top right. A 'Drag-n-drop' control (4) is used to reorder columns. A 'Sort' control (6) is used to sort any column by clicking the column name. A 'Selected Notification' (7) is highlighted with a checkbox. A 'Click the Device ID' (8) is highlighted to be taken to the device's details page. A 'Click the Device ID' (9) is highlighted to be taken to the device's details page. A 'Click the Device ID' (10) is highlighted to be taken to the device's details page.

1) Column Selector

2) Filter Toggle

3) Clear All Filters

4) Drag-n-drop columns to reorder them

5) See current subscriptions and setup new subscriptions

6) Sort any column by clicking the column name

7) Selected Notification – Click “Acknowledge” to acknowledge it.

8) Click the Device ID to be taken to the device’s details page

9) Acknowledged Notification (white background)

10) Unacknowledged Notification (yellow background)

1. Column Selector – Use this control to change the displayed columns in the table.
2. Filter Toggle – Use this control to expose and hide the column filters.
3. Clear All Filters – This control clears all the filters.
4. Click and hold the column name to reorder the columns.
5. Clicking the Configurations button will take you to the Notification Subscriptions section where you will see existing subscriptions including subscribers’ names and their notification days and time windows. New subscriptions are created in this section as well.
6. Any column may be sorted (ascending or descending) by clicking the column name. Click the name a second time to reverse the sort.
7. To “acknowledge” one or more notifications, click the checkbox to select the notification(s) and then click “Acknowledge”.
8. Click the Device ID to be taken to the device’s details page.
9. Acknowledged notifications have a white background.
10. Unacknowledged notifications have a yellow background.

NOTIFICATION CENTER – SUBSCRIPTIONS

Notification Subscriptions

1) Add a New Subscription

2) Selected Site Name (for users with access to more than one site a drop-down is provided for site selection)

Site Name
Other Site Name
Site Name

Recipients	Email	SMS	Days	Time
Alerts Off				
Critical Alert				
Joe Smith	✓		Sun, Mon, Tue, Wed, Thu, Fri, Sat	04:00:00 - 03:59:00
Jack Smith	✓	✓	Sun, Mon, Tue, Wed, Thu, Fri, Sat	04:00:00 - 03:59:00
Jane Smith		✓	Mon, Tue, Wed, Thu, Fri	12:00:00 - 21:00:00
Critical Condition Off				
Critical Warning				

3) Notification Recipients (Subscribers)

4) Subscription Method

5) Subscription Days & Times

Clicking the Configurations button in the Notification Center will take you to this section.

1. Add Subscription – Use this button to create a new subscription to a notification.
2. Selected Site Name – For users with access to more than one site, a drop-down is provide for site selection.
3. Each recipient has their own row.
4. Notifications can be delivered via Email and/or SMS.
5. Each recipient can have their own day and time ranges for receiving notifications.

NOTIFICATION CENTER – ADD SUBSCRIPTIONS

Add Subscription

1) Choose one or more Notifications

Alert Type
Choose one or more Alert Types

- ☐ Pressure Alerts
- ☐ Warning High Chlorine
- ☐ Critical High Temperature
- ☒ Critical Alert
- ☐ Warning Low Temperature
- ☐ Critical Pressure Condition Off
- ☐ Critical High PH

2) Next

Add Subscription

3) Choose subscribers by choosing the notification method

Name	Email	SMS
Luke Warren	<input type="checkbox"/>	<input type="checkbox"/>
Eugene Alfonso	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liya Derebe	<input type="checkbox"/>	<input type="checkbox"/>
Gowry Gandeepan	<input type="checkbox"/>	<input type="checkbox"/>
Alasgar Baldiwala	<input type="checkbox"/>	<input type="checkbox"/>
Alasgar Baldiwala	<input type="checkbox"/>	<input type="checkbox"/>
Ananya Rao Tadakamalla	<input type="checkbox"/>	<input type="checkbox"/>

4) Next

Add Subscription

5) Select the days and time range for this subscription

Send on

☐ Always (24/7)

Sun Mon Tue Wed Thu Fri Sat

From 8:00 AM To 5:00 PM

6) Save

1. Choose one or more notifications.
2. Click “Next” to advance to the next step.
3. Choose subscribers by choosing the notification method for each subscriber.
4. Click “Next” to advance to the next step.
5. Select the days and time range for this subscription (applies to each selected subscriber).
6. Click “Save”.

SENTRYX PRESSURE AND WATER QUALITY FEATURES

HOME PAGE

1) Show / Hide Devices on the map

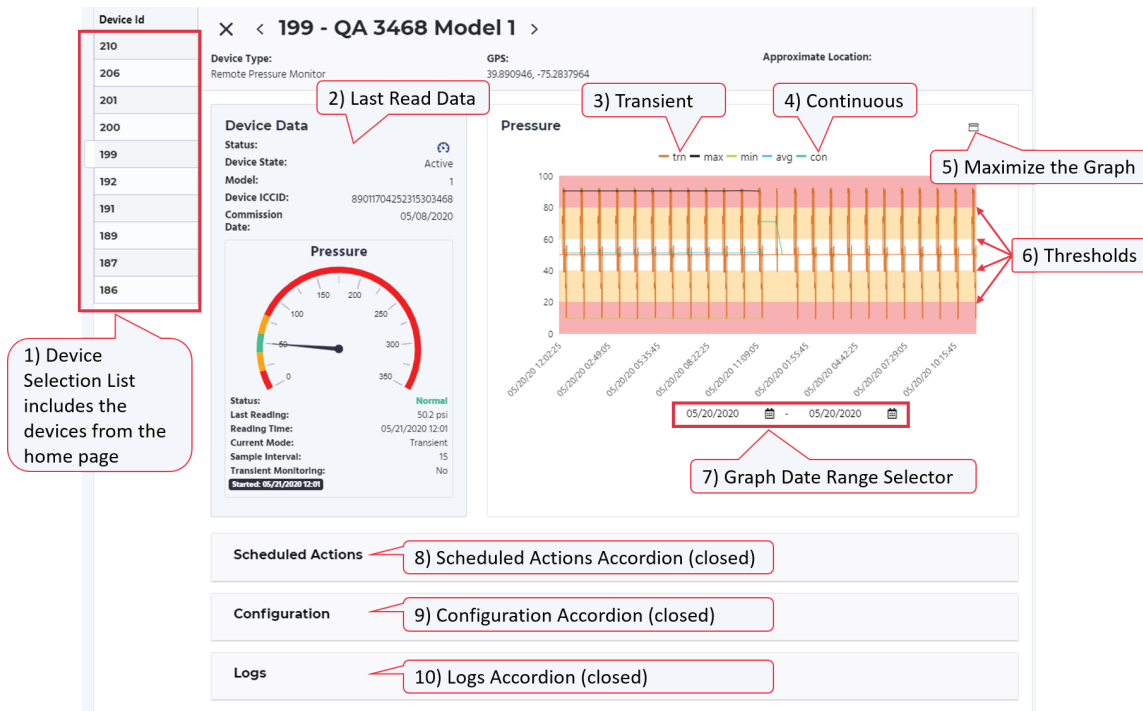
2) Expand/Collapse this section of the legend.

3) Click the Device ID to view the device's Details Page.

Device ID	Device Type	Description	Status	Device ICCID	Device State	Model
1	Hydro-Guard®	device 6		59372837203820123841	Active	100
2	Remote Pressure Monitor	device 7		81000042F19350	Deleted	100

- 1. Show/Hide Water Quality devices on the map.
- 2. Expand/Collapse this section of the legend.
- 3. Click the Device ID to view the device's Details Page.

DEVICE DETAILS PAGE



1. When navigating from the home page to the device details page, each of the devices shown on the home page appears in the Device ID list on the left for easy navigation between devices.
2. Last read data display area
3. Transient is orange.
4. Continuous is green.
5. Maximize the graph with this control.
6. Configured thresholds/pressure regions are shown using shading on the graph.
7. Use the Graph Date Range Selector to choose the desired date range for the graph.
8. Scheduled Actions Accordion (closed)
9. Configuration Accordion (closed)
10. Logs Accordion (closed)

* To see different time increments on the pressure graph, hover your mouse over the graph and use the scroll wheel. Scroll up to see smaller time increments (down to the second) and scroll down to see larger time increments. Pressing the shift key, clicking the pressure graph, and dragging your mouse across the desired time range also accomplishes the same outcome. You can also drag the graph (left or right) to change the time range displayed.

DEVICE DETAILS PAGE – SCHEDULED ACTIONS

The screenshot displays the 'Scheduled Actions' interface. On the left, a calendar for the week of 06/21/2020 to 06/27/2020 shows a grid of time slots (08:00 to 17:00) for each day, with 'Sync' status indicators. A 'Calendar Legend' at the bottom shows 'Scheduled' (blue), 'Success' (green), 'Failed' (red), and 'Unknown' (grey). On the right, the 'Scheduled Actions' form includes fields for 'Action Type' (Standard Monitoring, Transient Monitoring), 'Date/Time (date/24 hour): *' (mm/dd/yyyy, 00:00), 'Recurring Period: *' (Daily, Weekly), and 'Scheduled By: Your Name'. At the bottom of the form are 'Save' and 'Clear Form' buttons. Eight numbered callouts point to specific elements: 1) Scheduled Actions Accordion (open), 2) Calendar of scheduled actions, 3) Select Action Type, 4) Select Date, 5) Select Time, 6) Select Recurring Periods, 7) Save, and 8) Clear Form.

1. Scheduled Actions Accordion (open) admin privileges are required for making changes or additions to Scheduled Actions.
2. Calendar of scheduled actions
3. Action Time Selection drop-down
 - a. Standard Monitoring – measures one reading every 15 seconds and only reports the minimum, maximum and average readings per hour.
 - b. Transient Monitoring – monitors for transient pressure activity at the rate 4, 32, or 256 readings per second.
4. Date Selection Component
5. Time Selection Component
6. Recurring Period selection component
7. Save
8. Clear form

DEVICE DETAILS PAGE – CONFIGURATION SETTINGS

The screenshot shows the 'Configuration' section of a device details page. It features a 'Configuration Accordion (open)' at the top. Below it, there are five panels: 'Pressure' and four 'Mode Setting' panels. The 'Pressure' panel has four input fields for pressure limits: Critical High Pressure (80 psi), Warning High Pressure (60 psi), Warning Low Pressure (40 psi), and Critical Low Pressure (20 psi). The first 'Mode Setting' panel has a dropdown menu for 'Mode' with options: Average Min Max, Sampling, Transient, and Observe. The other three 'Mode Setting' panels are configured for Sampling, Transient, and Observe modes respectively. Each 'Mode Setting' panel includes fields for Sample Interval, Transient Monitoring, Pressure Change Trigger, and Seconds to Record. A callout points to the 'Pressure' panel with the text: '2) Device Specific Pressure Limits. Note: The system needs a minimum of 3 PSI between these pressure limits.' Another callout points to the 'Mode Setting' panels with the text: '3) Average Min Max, Sampling, Transient, and Observe Mode Settings configuration panels are individually visible via the drop-down selection.'

Configuration 1) Configuration Accordion (open)

Pressure

Critical High Pressure: 80 psi

Warning High Pressure: 60 psi

Warning Low Pressure: 40 psi

Critical Low Pressure: 20 psi

Mode Setting

Mode: Average Min Max

Sample Interval: 30

Transient Monitoring: ☒ Transient

Pressure Change Trigger: 10 psi

Seconds to Record: 900

Mode Setting

Mode: Sampling

Sample Interval: 30

Transient Monitoring: ☒ Transient

Pressure Change Trigger: 10 psi

Seconds to Record: 900

Mode Setting

Mode: Transient

Upload on Trigger: ☒

Trigger Time Span: 30

Pressure Change Trigger: 10 psi

Seconds to Record: 900

Mode Setting

Mode: Observe

Sample Interval: 30

Change to Update: 8

Continuous: ☒

2) Device Specific Pressure Limits

Note: The system needs a minimum of 3 PSI between these pressure limits.

3) Average Min Max, Sampling, Transient, and Observe Mode Settings configuration panels are individually visible via the drop-down selection

1. Configuration Accordion (open) admin privileges are required for making changes or additions to Scheduled Actions.
2. Device Specific Pressure Limits - the system needs a minimum of 3 PSI between these limits.
3. A Remote Pressure Monitor (RPM) can be in one of four (4) modes. Use the drop-down to switch modes and configure that specific mode.
 - a. Average Min Max – measures one reading every 15 seconds and only reports the minimum, maximum, and average readings per hour.
 - b. Sampling – records and logs unfiltered data points at a rate of either one reading every 30 seconds or one reading every 60 seconds. This mode is often utilized for hydraulic modeling.
 - c. Transient – monitors for transient pressure activity at a rate of 4, 32, or 256 readings per second.
 - d. Observe – actively monitors and reports when the pressure differential is greater than or equal to the operator prescribed set point. In this mode, the device provides near-time reporting by uploading every data point recorded that is greater than or equal to the set point.

DEVICE DETAILS PAGE – LOGS

Logs 1) Logs Accordion (open)

Log Id	Description	Status	Source	Recorded Time
382463	Last connection was more than 24 hours ago	service	System	05/22/2020 13:30:04
37950	Status change to Normal	normal	RTU	05/21/2020 11:27:52
379491	Status change to Critical Low	normal	RTU	05/21/2020 11:25:51
379472	Status change to Normal	normal	RTU	05/21/2020 11:21:51
379456	Status change to Critical High	normal	RTU	05/21/2020 11:19:52
379448	Status change to Normal	normal	RTU	05/21/2020 11:17:52
379435	Status change to Critical High	normal	RTU	05/21/2020 11:15:50
379426	Status change to Warning High	normal	RTU	05/21/2020 11:13:52
379417	Status change to Normal	normal	RTU	05/21/2020 10:27:52

2) Edit log entry to add notes or change status

3) Add a new log entry **Add Log**

1 - 10 of 2085 items

4) Update log status panel

5) Add new log panel

Update log status

Description: *

Description is required.

Action: *

Add Notes

Add Notes

Resolved

Request Support

Add new log

Description: *

Action: *

Add Notes

Records of updates and activity are stored, and include a description, status, source, and recorded time for each.

1. Logs Accordion (open)
2. Click the pencil icon to add notes or change the status of a log.
3. Add a new log entry.
4. When editing an existing log entry, this panel is used to either add notes or change the status.
5. When adding a new log entry, this panel is used.

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