

DATATRON EXT

Version 1.5.11

Additional Comments

The **Additional Comments** page is designed to facilitate the appending of additional comments to previous alarms when some further clarification of said alarms is needed. To meet the requirements of GMP, GLP and other quality systems, the system does not allow you to alter previous comments. However, the system does allow you to enter additional comments to augment or clarify a previous response to an alarm condition. Select a Date and Time Range to search for the **Alarm(s)** you wish to add additional comments. The **Additional Comments** page is only available to users who have access to **Channel Alarms** under their **Security Level**. **System Alarms** will only be displayed for users with access to **System Alarms** under their **Security Level**.

Select Group

Select the Channels to be displayed in the [Select Channels](#) list. Options are All Channels available to the user or a custom, user defined [Group](#) of Channels

Select Channels

Select one or more Channels for the Report.

Select: <Ctrl> + Click: Select 1 at a time
<Shift> + Click: Select all in between

Start Date

Enter the Start Date for the Alarm Search

Format: mm/dd/yyyy
Enter: Enter the date manually or use the Start Date Calendar
Note: Year must be greater than or equal to 2008 and Start Date must be less than the End Date

End Date

Enter the End Date for the Alarm Search

Format: mm/dd/yyyy
Enter: Enter the date manually or use the End Date Calendar
Note: Year must be greater than or equal to 2008 and End Date must be greater than the Start Date

Start Time

Enter the Start Time for the Alarm Search

Format: hh:mm
Enter: Enter the time manually or use the Start Time List
Note: The time 23:59 will be processed as 23:59:59. All other times will be processed as having zero (0) seconds.

End Time

Enter the End Time for the Alarm Search

Format: hh:mm
Enter: Enter the time manually or use the End Time List
Note: The time 23:59 will be processed as 23:59:59. All other times will be processed as having zero (0) seconds.

Select Alarm(s)

Select one or more [Alarms](#) to add Additional Comments.

Select: <Ctrl> + Click: Select 1 at a time
 <Shift> + Click: Select all in between

Buttons

Find Alarms	Searches for Alarms that occurred during the selected Time Period
Add Comment	Opens the Add Comment Dialog
Add System Event Notice	This feature can be used to add a notice to the Datatron EXT's System Event log. It can be used to provide an audit trailed account of an event that affected the Datatron system that might not have been recorded automatically by the system. Please select the Start Date and Start Time and the End Date and End Time of the event. The event will be placed into the System Event log at the Start Date and Time and will have the ***SYSTEM EVENT NOTICE*** Administrator Comment by (Your Name) and the Start and End Date and Times appended to the entered comments automatically. The System Event Notice can be seen on Period Reports and System Event Reports that include the Start Date and Time of the event. <u>Example</u> ***SYSTEM EVENT NOTICE*** Administrator Comment by John Smith - System was down for maintenance. No data was recorded during this time. Event occurred from 3/21/2018 6:30:00 AM until 3/21/2018 7:17:00 AM

Alarms

System and Channel Alarm Types

System Alarms

Datatron System Level Alarm Types

Reboot Alarm

A **Reboot Alarm** will sound whenever the Main Datatron program is started. The **Reboot Alarm** is automatically recovered once the Alarm sounds. The Time of the **Reboot Alarm** will show the Last Recorded Time before the Main Datatron Program was shut down. The Difference in Time between the Alarm Time and Recover Time represents the Amount of Time the Datatron System was not Running.

[Comment](#) Required: Yes - Requires the [Current Alarms](#) and [System Alarms Security Permission](#)
User Can [Finish](#): Yes - Requires the [Current Alarms](#) and [System Alarms Security Permission](#)
[Notification](#): If [Reboot Notification](#) is Enabled in the [System Settings](#)

Node Error

A **Node Error** will occur if there is a problem with the [Node's](#) Data Acquisition. This "*Node Error Alarm*" will sound once Data has not been received from the Node for the amount of minutes of the [Node Timeout](#) value. The **Node Error** will recover once the Communication with the Node has resumed. There will also be a **Com Error** Alarm added to the Alarm Audit Trail for each channel on the Node. These **Com Error** Alarms do not require any additional action by the User and are for Audit Trail purposes only.

[Comment](#) Required: Yes - Requires the [Current Alarms](#) and [System Alarms Security Permission](#)
User Can [Finish](#): Yes - Requires the [Current Alarms](#) and [System Alarms Security Permission](#)
[Notification](#): Yes

Wireless Sensor

A **Wireless Sensor** Alarm will occur if there is a problem with the Wireless Sensor's Data Acquisition. This "*Wireless Sensor Alarm*" will sound once Data has not been received from the Wireless Sensor for the amount of minutes of the Wireless Sensor's Sensor Timeout value. The **Wireless Sensor** Alarm will recover once the Communication with the Wireless Sensor has resumed. There will also be a **Com Error** Alarm added to the Alarm Audit Trail for each channel assigned to the Wireless Sensor. These **Com Error** Alarms do not require any additional action by the User and are for Audit Trail purposes only.

[Comment](#) Required: Yes - Requires the [Current Alarms](#) and [System Alarms Security Permission](#)
User Can [Finish](#): Yes - Requires the [Current Alarms](#) and [System Alarms Security Permission](#)
[Notification](#): Yes

Wireless Gateway

A **Wireless Gateway** Alarm will occur if there is a problem with the Wireless Gateway's Data Acquisition. This "*Wireless Gateway Alarm*" will sound once Data has not been received from the Wireless Gateway for the amount of minutes of the Wireless Gateway's Timeout value. The **Wireless Gateway** Alarm will recover once the Communication with the Wireless Gateway has resumed.

[Comment](#) Required: Yes - Requires the [Current Alarms](#) and [System Alarms Security Permission](#)
User Can [Finish](#): Yes - Requires the [Current Alarms](#) and [System Alarms Security Permission](#)
[Notification](#): Yes

WiFi Sensor

A **WiFi Sensor** Alarm will occur if there is a problem with the [WiFi Sensor's](#) Data Acquisition. This "*WiFi Sensor Alarm*" will sound once Data has not been received from the WiFi Sensor for the amount of minutes of the WiFi Sensor's [Sensor Timeout](#) value. The **WiFi Sensor** Alarm will recover once the Communication with the WiFi Sensor has resumed. There will also be a **Com Error** Alarm added to the Alarm Audit Trail for each channel assigned to the WiFi Sensor. These **Com Error** Alarms do not require any additional action by the User and are for Audit Trail purposes only.

[Comment](#) Required: Yes - Requires the [Current Alarms](#) and [System Alarms Security Permission](#)
User Can [Finish](#): Yes - Requires the [Current Alarms](#) and [System Alarms Security Permission](#)
[Notification](#): Yes

WiFi Battery

A **WiFi Battery Alert** will occur when the [WiFi Sensor's Battery](#) level is at or below 2.75 Volts. The **Battery Alert** will recover once the Battery has been replaced and / or the Battery level rises above 2.75 Volts.

[Comment](#) Required: Yes - Requires the [Current Alarms](#) and [System Alarms Security Permission](#)
User Can [Finish](#): Yes - Requires the [Current Alarms](#) and [System Alarms Security Permission](#)
[Notification](#): Yes

IPX Node Battery

An **IPX Battery Alarm** will occur when the [IPX Node](#) is actively on Battery power and has met or exceeded the Node's Timeout value. The **IPX Battery Alarm** will recover once AC power has been restored to the Node.

[Comment](#) Required: Yes - Requires the [Current Alarms](#) and [System Alarms Security Permission](#)
User Can [Finish](#): Yes - Requires the [Current Alarms](#) and [System Alarms Security Permission](#)
[Notification](#): Yes

IPX Node Low Battery Level

An **IPX Node Low Battery Level Alarm** will occur when the [IPX Node's Battery](#) level is at or below 22.5 Volts for 60 minutes. This alarm will only be triggered M-F between 8am and 4pm. The **IPX Node Low Battery Level Alarm** will recover once the Battery level rises above 22.5 Volts.

[Comment](#) Required: Yes - Requires the [Current Alarms](#) and [System Alarms Security Permission](#)
User Can [Finish](#): Yes - Requires the [Current Alarms](#) and [System Alarms Security Permission](#)
[Notification](#): Yes

Channel Alarms

Individual Channel Alarm Types

Low Warning

A **Low Warning** will sound once the Channel's Value has been continuously at or below the Channel's [Low Warn Set Point](#) for the number of minutes of the Channel's [Low Warn Delay](#). The **Low Warning** will recover once the Channel's Value has remained above the Channel's [Low Warn Set Point](#) for the number of minutes of the Channel's [Low Warn Reset](#).

[Comment](#) Required: No - Warnings are not audit trailed and cannot be commented.
User Can [Finish](#): Yes - Requires the [Current Alarms](#) and [Channel Alarms Security Permission](#)
[Notification](#): If [Warn Notification](#) is Enabled for the Channel

Low Alarm

A **Low Alarm** will sound once the Channel's Value has been continuously at or below the Channel's [Low Alarm Set Point](#) for the number of minutes of the Channel's [Low Alarm Delay](#). The **Low Alarm** will recover once the Channel's Value has remained above the Channel's [Low Alarm Set Point](#) for the number of minutes of the Channel's [Low Alarm Reset](#).

[Comment](#) Required: Yes - Requires the [Current Alarms](#) and [Channel Alarms Security Permission](#)
User Can [Finish](#): Yes - Requires the [Current Alarms](#) and [Channel Alarms Security Permission](#)
[Notification](#): If [Alarm Notification](#) is Enabled for the Channel

Low Force Alarm

The **Low Force Alarm** bypasses the Channel's [Low Alarm Delay](#) time and will sound immediately upon reaching or going below the Channel's [Low Force Alarm Set Point](#). The **Low Force Alarm** will recover once the Channel's Value has remained above the Channel's [Low Force Alarm Set Point](#) for the number of minutes of the Channel's [Low Alarm Reset](#).

[Comment](#) Required: Yes - Requires the [Current Alarms](#) and [Channel Alarms Security Permission](#)
User Can [Finish](#): Yes - Requires the [Current Alarms](#) and [Channel Alarms Security Permission](#)
[Notification](#): If [Alarm Notification](#) is Enabled for the Channel

High Warning

A **High Warning** will sound once the Channel's Value has been continuously at or above the Channel's [High Warn Set Point](#) for the number of minutes of the Channel's [High Warn Delay](#). The **High Warning** will recover once the Channel's Value has remained below the Channel's [High Warn Set Point](#) for the number of minutes of the Channel's [High Warn Reset](#).

[Comment](#) Required: No - Warnings are not audit trailed and cannot be commented.
User Can [Finish](#): Yes - Requires the [Current Alarms](#) and [Channel Alarms Security Permission](#)
[Notification](#): If [Warn Notification](#) is Enabled for the Channel

High Alarm

A **High Alarm** will sound once the Channel's Value has been continuously at or above the Channel's [High Alarm Set Point](#) for the number of minutes of the Channel's [High Alarm Delay](#). The **High Alarm** will recover once the Channel's Value has remained below the Channel's [High Alarm Set Point](#) for the number of minutes of the Channel's [High Alarm Reset](#).

[Comment](#) Required: Yes - Requires the [Current Alarms](#) and [Channel Alarms Security Permission](#)
User Can [Finish](#): Yes - Requires the [Current Alarms](#) and [Channel Alarms Security Permission](#)
[Notification](#): If [Alarm Notification](#) is Enabled for the Channel

High Force Alarm

The **High Force Alarm** bypasses the Channel's [High Alarm Delay](#) time and will sound immediately upon reaching or going above the Channel's [High Force Alarm Set Point](#). The **High Force Alarm** will recover once the Channel's Value has remained below the Channel's [High Force Alarm Set Point](#) for the number of minutes of the Channel's [High Alarm Reset](#).

[Comment](#) Required: Yes - Requires the [Current Alarms](#) and [Channel Alarms Security Permission](#)
User Can [Finish](#): Yes - Requires the [Current Alarms](#) and [Channel Alarms Security Permission](#)
[Notification](#): If [Alarm Notification](#) is Enabled for the Channel

Com Error

A **Com Error** will occur if there is a problem with the Channel's Data Acquisition. This "*Communication Error Alarm*" will sound once the Channel's Value has been continuously out of the [Sensor's Range](#) for the number of minutes of the Channel's [Low Alarm Delay](#). The **Com Error** will recover once the Channel's Value has remained within the [Sensor's Range](#) for the number of minutes of the Channel's [Low Alarm Reset](#).

[Comment](#) Required: Yes - Requires the [Current Alarms](#) and [Channel Alarms Security Permission](#)
User Can [Finish](#): Yes - Requires the [Current Alarms](#) and [Channel Alarms Security Permission](#)
[Notification](#): If [Alarm Notification](#) is Enabled for the Channel

Difference Alarm

A **Difference Alarm** will sound once the difference between the Channel's Value and the Channel's [Difference Channel's](#) Value is equal to or greater than the Channel's [Difference Value](#). The **Difference Alarm** will recover once the difference between the Channel's Value and the Channel's [Difference Channel's](#) Value is less than the Channel's [Difference Value](#).

[Comment](#) Required: Yes - Requires the [Current Alarms](#) and [Channel Alarms Security Permission](#)
User Can [Finish](#): Yes - Requires the [Current Alarms](#) and [Channel Alarms Security Permission](#)
[Notification](#): If [Alarm Notification](#) is Enabled for the Channel

Secondary Alarms

Secondary Alarms are used to Alert the User(s) that an Alarm Condition is getting worse or has not improved in a certain amount of time. These alarms can only occur after a Channel Alarm has sounded.

Low Rewarn

A **Low Rewarn** will sound after a **Low Alarm** or **Low Force Alarm** has sounded and once the Channel's Value is at or below the Channel's [Low Alarm Set Point](#) minus the Channel's [Low Rewarn Value](#). Another **Low Rewarn** will sound each time the Channel's Value continues to drop equal to or more than the Channel's [Low Rewarn Value](#). This alarm is used to help prevent runaway conditions.

[Comment](#) Required: No
User Can [Finish](#): Yes - By [Finishing](#) the **Initial Alarm** for the Channel. Requires the [Current Alarms](#) and [Channel Alarms Security Permission](#).
[Notification](#): If [Alarm Notification](#) is Enabled for the Channel

Low Alarm Echo

A **Low Alarm Echo** will sound after a **Low Alarm** or **Low Force Alarm** has sounded and the Channel's Value is still in a **Low Alarm State** after the Channel's [Low Alarm Echo Time](#) (in minutes) has passed. Another **Low Alarm Echo** will sound each time the Channel's Value remains in a **Low Alarm State** after the Channel's [Low Alarm Echo Time](#) (in minutes) has passed again. This alarm is used as a reminder that the Channel is still in an Alarm State.

[Comment](#) Required: No
User Can [Finish](#): Yes - By [Finishing](#) the **Initial Alarm** for the Channel. Requires the [Current Alarms](#) and [Channel Alarms Security Permission](#).
[Notification](#): If [Alarm Notification](#) is Enabled for the Channel

High Rewarn

A **High Rewarn** will sound after a **High Alarm** or **High Force Alarm** has sounded and once the Channel's Value is at or above the Channel's [High Alarm Set Point](#) minus the Channel's [High Rewarn Value](#). Another **High Rewarn** will sound each time the Channel's Value continues to rise equal to or more than the Channel's [High Rewarn Value](#). This alarm is used to help prevent runaway conditions.

[Comment](#) Required: No
User Can [Finish](#): Yes - By [Finishing](#) the **Initial Alarm** for the Channel. Requires the [Current Alarms](#) and [Channel Alarms Security Permission](#).
[Notification](#): If [Alarm Notification](#) is Enabled for the Channel

High Alarm Echo

A **High Alarm Echo** will sound after a **High Alarm** or **High Force Alarm** has sounded and the Channel's Value is still in a **High Alarm State** after the Channel's [High Alarm Echo Time](#) (in minutes) has passed. Another **High Alarm Echo** will sound each time the Channel's Value remains in a **High Alarm State** after the Channel's [High Alarm Echo Time](#) (in minutes) has passed again. This alarm is used as a reminder that the Channel is still in an Alarm State.

[Comment](#) Required: No
User Can [Finish](#): Yes - By [Finishing](#) the **Initial Alarm** for the Channel. Requires the [Current Alarms](#) and [Channel Alarms Security Permission](#).
[Notification](#): If [Alarm Notification](#) is Enabled for the Channel

Backup

The Datatron databases are backed up automatically on a preset schedule. There is also a [Manual Backup](#) feature available for a Full Database Backup. The Database is backed up to the C:\Program Files\RDSC\Backup directory and should be backed up further from here by your IT department to a networked or online backup.

Backup Schedule

Full Backup	Weekly at Midnight on Sunday - Full Database Backup
Differential Backup	Daily at Midnight except Sunday - Changes since last Full Backup
Log File Backup	Every Hour on the Hour except Midnight - Hourly Transaction Logs

Restore

The Datatron Databases can only be restored by authorized R&D Scientific Service personnel.

Audit Trail

An [Event Report](#) can be generated that shows an Audit Trail of all Backup or Restore operations.

Channel Calibration Procedure

Instructions for Calibrating the Datatron Channels

Note: Alarm Functionality is *Temporarily Suspended* for the Channel that is currently displayed on the Calibration Page.

Procedure

KEY : RO = Remote operator @ sensors, CO = Computer operator

I. RTD Sensor and Temperature Transmitter Calibration

1. Locate the reference calibrator in the center of the working area and apply power to the unit. Be sure to allow enough time so that the reference sensors has time to acclimate.
2. Attach the calibrated temperature probe(s) to the system RTD sensors as close as possible to the sensing end.
3. RO : Identify the channel to be calibrated and tell CO the channel number.
4. CO : Bring channel into calibration screen and inform RO.
5. RO : Open the transmitter box and disconnect the RTD from "RTD" terminals. Inform CO that the sensor has been removed.
6. CO : Observe that the transmitter output changes, verifying that the sensor had been disconnected.
7. RO : Once the channel is confirmed, plug the calibrated RTD into the reference calibrator.
8. RO : Attach RTD Substitution Box to "RTD" connections on transmitter circuit board. Set the box output to level corresponding to lowest temperature in unit range.
9. RO : Inform CO that unit is in "Zero" position and announce temperature.
10. CO : Click mouse on "Calibrate" button on left side of window.
11. CO : Enter the low temperature from RO into box.
12. CO : Click on "Ok" button to start. Computer takes readings and displays new window requesting "Span" setting. Inform RO to go to "Span" of unit.
13. RO : Set RTD box to highest value of transmitter and inform CO that unit is in "Span" setting and announce the value.
14. CO : Enter span temperature and click on "Ok" button.
15. CO : Computer takes readings and displays a new window requesting that sensor to be re-attached. Inform RO to attach sensor.
16. RO : Connect RTD back to "RTD" terminals and inform CO of the reading of the reference value as displayed on the calibrator.
17. CO : Enter the temperature from reference calibrator into the box and click on "Ok". The system takes the reading and displays the new calibration factors to the right of the Initial factors. Verify that the new scale factors are within the acceptable limits. Final calibration results must be within these ranges. If not, calibration must be repeated. If the repeated calibrations do not fall within the acceptable limits for the sensor range, replace the transmitter and sensor and re-calibrate.
18. CO : Click on "Save" to save new data, click on "Yes" for making changes permanent.
19. CO : Once complete, click on "Print" to print out calibration data. Sign and date the report.
20. RO : Close transmitter box, apply a calibration sticker that has been initialed and dated to the cover of the sensor. Proceed to next unit.

II. Humidity Transmitter Calibration

1. Locate the calibrated humidity probe next to the system humidity sensor as close as possible to the sensing end.
2. RO : Identify the channel to be calibrated and tell CO channel number. Be sure to allow enough time so that the reference sensors has time to acclimate.
3. CO : Bring channel into calibration screen and inform RO.
4. RO : Open transmitter box and disconnect wires from "+" and "-" terminals. Observe which wire color goes to "+" and "-". Inform CO that power is removed.
5. CO : Observe that the transmitter output should be about 0 mA, verifying the power has been disconnected.
6. RO : Attach 4-20mA Calibrator to wires removed from transmitter circuit board. BE SURE TO OBSERVE POLARITY. Set box output to 4 mA position.
7. RO : Inform CO that unit is in "Zero" position.
8. CO : Click mouse on "Calibrate" button on left side of window.
9. CO : Enter 0.0 for the low value.
10. CO : Click on "Ok" button to start. Computer takes readings and displays new window requesting "Span" setting. Inform RO to go to 20mA.
11. RO : Set box to output 20mA and inform CO.
12. CO : Enter 100 for span value and click on "Ok" button.
13. CO : Computer takes readings and displays a new window requesting that sensor to be re-attached. Inform RO to attach power connector back onto transmitter board.
14. RO : Connect wires back onto the terminals and inform CO of the reading on the humidity calibrator.
15. CO : Enter the new humidity value into the box and click on "Ok". The system takes the reading and displays the new calibration factors to the right of the Initial factors. Verify that the new scale factors are within the acceptable limits. Final calibration results must be within these ranges. If not, calibration must be repeated. If the repeated calibrations

do not fall within the acceptable limits for the sensor range, replace the transmitter and sensor and re-calibrate.

16. RO : Close transmitter box and wait for CO instructions.
17. CO : Click on "Save" to save new data, click on "Yes" for making changes permanent.
18. CO : Once complete, click on "Print" to print out calibration data. Sign and date the report.
19. RO : Close transmitter box, apply a calibration sticker that has been initialed and dated to the cover of the sensor. Proceed to next unit.

III. Pressure Transmitter Calibration

1. RO : Identify the channel to be calibrated and tell CO channel number
2. CO : Bring channel into calibration screen and inform RO.
3. RO : Disconnect wires from "+" and "-" terminals. Observe which wire color goes to "+" and "-". Inform CO that power is removed.
4. CO : Observe that the transmitter output value has changed, verifying the power has been disconnected.
5. RO : Attach 4-20mA calibrator to wires removed from transmitter circuit board. BE SURE TO OBSERVE POLARITY. Set unit output to 4 mA position.
6. RO : Inform CO that unit is in "Zero" position.
7. CO : Click mouse on "Calibrate" button on left side of window.
8. CO : Enter the minimum value of the transmitter range.
9. CO : Click on "Ok" button to start. Computer takes readings and displays new window requesting "Span" setting. Inform RO to go to 20mA.
10. RO : Set box to output 20mA and inform CO.
11. CO : Enter the maximum value of the transmitter range and click on "Ok" button.
12. CO : Computer takes readings and displays a new window requesting that sensor to be re-attached. Inform RO to attach wires back onto transmitter.
13. RO : Connect wires to "+" & "-" terminals and connect the pressure tubes on the transmitter to each other. Inform the CO.
14. CO : Enter 0.0 for the reading and click on "Ok". The system takes the reading and displays the new calibration factors to the right of the Initial factors. Verify that the new scale factors are within the acceptable limits. Final calibration results must be within these ranges. If not, calibration must be repeated. If the repeated calibrations do not fall within the acceptable limits for the sensor range, replace the transmitter and sensor and re-calibrate.
15. RO : Reconnect the pressure tubing, close transmitter box and wait for CO instructions.
16. CO : Click on "Save" to save new data, click on "Yes" for making changes permanent.
17. CO : Once complete, click on "Print" to print out calibration data. Sign and date the report.
18. RO : Close transmitter box, apply a calibration sticker that has been initialed and dated to the cover of the sensor. Proceed to next unit.

IV. CO2 Transmitter Calibration

1. RO : Identify the channel to be calibrated and tell CO channel number.
2. CO : Bring channel into calibration screen and inform RO.
3. RO : Disconnect the transmitter and inform CO.
4. CO : Observe that the transmitter output changes, verifying the disconnection of the power.
5. RO : Attach the 4-20mA Calibrator to the wires removed from the transmitter. BE SURE TO OBSERVE POLARITY. Set the box output to 4mA position.
6. RO : Inform CO that unit is in "Zero" position.
7. CO : Click mouse on "Calibrate" button on left side of window.
8. CO : Enter 0.0 for the low value.
9. CO : Click on "Ok" button to start. Computer takes readings and displays new window requesting "Span" setting. Inform RO to go to 20mA.
10. RO : Set the output to the 20mA position and inform CO.
11. CO : Enter 20.0 for span value and click on "Ok" button.
12. CO : Computer takes readings and displays a new window requesting that sensor to be re-attached.
13. RO : Connect the 5% CO2 gas bottle to the sensor and set the flow rate to 100 cc/min.
14. CO : Enter 5.0 for the reading and click on "Ok". The system takes the reading and displays the new calibration factors to the right of the Initial factors. Verify that the new scale factors are within the acceptable limits. Final calibration results must be within these ranges. If not, calibration must be repeated. If the repeated calibrations do not fall within the acceptable limits for the sensor range, replace the transmitter and sensor and re-calibrate.
15. CO : Click on "Save" to save new data, click on "Yes" for making changes permanent if Ok.
16. CO : Once complete, click on "Print" to print out calibration data. Sign and date the report.
17. RO : Stop gas flow rate and remove cylinder and sensor gas tube.
18. RO : Close transmitter box, apply a calibration sticker that has been initialed and dated to the cover of the sensor. Proceed to next unit.

V. Calibration Results

1. Final calibration results must be within these ranges. If not, calibration must be repeated. If the repeated calibrations do not fall within the acceptable limits for the sensor range, replace the transmitter and sensor and re-calibrate. All calibration reports must be signed and dated. The calibration reports must be given to the Director of Engineering for final review. Once the reports have been reviewed, a Certificate of Calibration will be issued to the user by the Engineering Department.

VI. Calibration Acceptance Limits

1. Please Contact R&D Scientific for a current list of Acceptance Limits

VII. EQUIPMENT REQUIRED

1. Please Contact R&D Scientific for a current list of Required Calibration Equipment for your Datatron System

Change Password

Change *Your* Password

Password

Old Password

Type: Alphanumeric (*may require special character(s)*)

Note: Your current password is required

New Password

New Password

Type: Alphanumeric (*may require special character(s)*)

Note: Password length and strength requirements are set in the [Configure Security Settings](#) page

Confirm New Password

Confirm New Password

Type: Alphanumeric (*may require special character(s)*)

Note: New Password and Confirm New Password fields must be identical

Buttons

Change Password Validates the page and Changes the Password if there are no errors

Cancel Cancels the Change Password Form

Channel Calibration

The Channel Calibration page is used to [Calibrate](#) the sensor to the Datatron System.

The Channel Calibration page displays four boxes of values that are used to display the initial settings and the results of the Channel Calibration.

Data

Voltage	The real time voltage reading of the Channel in Volts
Current	The real time voltage reading of the Channel in mA
Value	The real time calculated value of the Channel in the corresponding Engineering Unit (i.e., C, F, %RH, %CO2, Volts, etc.)
Note:	These fields will be updated whenever the value of the sensor changes. This can be anywhere from a few seconds to a minute or more depending upon the type of sensor used for this channel.

Initial

Zero	The Initial Zero value of the sensor
Scale	The Initial Scale value of the sensor
Offset	The Initial Offset value of the sensor
Note:	These fields will be updated once the Calibration has been saved.

Result

Zero mA	The mA Zero Value recorded during the Calibration
Scale mA	The mA Scale Value recorded during the Calibration
Offset mA	The mA Offset Value recorded during the Calibration
Note:	These fields will be updated once the Calibration or Mid Point procedure has been performed

New

Zero	The New Zero Value calculated after the Calibration or Mid Point procedure has been completed
Scale	The New Scale Value calculated after the Calibration or Mid Point procedure has been completed
Offset	The New Offset Value calculated after the Calibration or Mid Point procedure has been completed
Note:	These fields will be updated once the Calibration or Mid Point procedure has been performed. The Calibration must be Saved in order for these New Values to take effect.

Buttons

Previous	Selects the Previous Channel by Channel Number
Calibrate	Opens the Calibration Input Window
Mid Point	Opens the Mid Point Input Window
Save	Validates the Calibration and Saves the changes if the Percent Change is less than or equal to 5%. The Save button will only function after the Calibrate or Mid Point procedure has been completed.
Redo	Clears all user inputted values
Print	Opens a printable Calibration Report. The Print button is only available after the Calibration has been saved.
Cal Due Rpt	Opens a printable Calibration Due Report with Due Date 1 year from the last Full Channel Calibration
Next	Selects the Next Channel by Channel Number

Channel Dashboard

Real-time trending graph and gauge.

The real-time graph will show up to the last 15 minutes of live incoming data for the channel. The sampling rate is dependent on the node polling interval. Data point plotting on the graph begins when the page is loaded and does not include the previous 15 minutes of data. Data points are plotted going forward.

The real-time gauge can be displayed as a linear (thermometer) or radial gauge and is configured using the Select Gauge Type drop down list. The last sampled value and time are displayed under the gauge.

Alarm limits are displayed in red on the graph and gauge. Warning limits are displayed in yellow on the gauge, if they are within the alarm limits. Alarm limits can be displayed or hidden using the Show Alarm Limits drop down list.

The graph and gauge will auto-scale based upon the values sampled and the alarm limits, if visible.

A PDF of the graph can be generated using the Export Chart to PDF button.

Comparison Reports

Configurable Reports for Comparing the Data for Two (2) Channel's Data Side by Side.

Select Group

Select the Channels to be displayed in the [Select Channels](#) list. Options are All Channels available to the user or a custom, user defined [Group](#) of Channels

Select Channel 1

Select the first Channel for the Comparison Report.

Select Channel 2

Select the second Channel for the Comparison Report.

Select Data By

Select the type of Data for the Report.

Options:

- Actual Data
- Daily Average
- Monthly Average

Select Report Type

Select how the Data is to be displayed in the Report.

Options:

- Report
- Graph
- Report and Graph

Select Data Type

Select the type of Data to be displayed in the Report.

Options:

- | | |
|------------------|---|
| All | Actual, Average, Minimum & Maximum Values |
| Actual & Average | Actual & Average Values |
| Actual Only | Actual Value |
| Average Only | Average Only |
- Note: The Options "Actual & Average" and "Actual Only" are only available if the **Select Data By** option "Actual Data" is chosen.

Select Interval

Select the Interval of the Data to be displayed in the Report. The Interval is the amount of time between each displayed Data Point.

Options:

- | | |
|---------|-------------------|
| Minutes | 5, 10, 15, 20, 30 |
| Hours | 1,2,4,6,8,12 |

Note: Interval is only available when "**Actual Data**" is selected in the **Select Data By** field.

Start Date

Enter the Start Date for the Report Data

Format: mm/dd/yyyy
Enter: Enter the date manually or use the Start Date Calendar
Note: Year must be greater than or equal to 2008 and Start Date must be less than the End Date

End Date

Enter the End Date for the Report Data

Format: mm/dd/yyyy
Enter: Enter the date manually or use the End Date Calendar
Note: Year must be greater than or equal to 2008 and End Date must be greater than the Start Date

Start Time

Enter the Start Time for the Report Data

Format: hh:mm
Enter: Enter the time manually or use the Start Time List
Note: The time 23:59 will be processed as 23:59:59. All other times will be processed as having zero (0) seconds.

End Time

Enter the End Time for the Report Data

Format: hh:mm
Enter: Enter the time manually or use the End Time List
Note: The time 23:59 will be processed as 23:59:59. All other times will be processed as having zero (0) seconds.

Select Differential

Select the type of Data to be used for calculating the Differential between the two Channels. The Differential is the absolute value of the difference between the values of Channel 1 and Channel 2.

Options:

Actual
Average
Minimum
Maximum

Note: The available options will change depending upon the selected option under **Select Data By** and **Select Data Type**.

Select Report Format

Select the desired Format of the Report

Report Viewer Opens the Report with the Report Viewer. The Report Viewer does not have any print capabilities, but Reports can be Exported to PDF or Excel format from here.
PDF Generates the Report as a PDF document.

TIFF	Generates the Report as a TIFF document.
Excel	Generates the Report as a Microsoft Excel workbook.

Buttons

View	Initiates the Report processing and opens another window to display the Report.
Save	Opens the Save Report Dialog to save the Selected Report Parameters as a set of User Defined Report Parameters.
Load	Opens the Load Report Dialog to select a set of User Defined Report Parameters.

Configure Alarm Settings Template

Template Name

Unique **Name** for the template.

Type:	Alphanumeric
Max Length:	32 Characters
Excluded:	Unassigned
Note:	This name can be any alphanumeric that you choose, i.e., Refrigerators, Freezers, Incubators, etc. However, whatever system is used, each one must be unique.

Department

The **Department** that this template belongs to.

Configure: [Configure Department](#)

Alarm Time Matrix

24 x 7 **Alarm Time Matrix** used to enable or disable alarming based on time of day and day of week.

Note: The **Alarm Time Matrix** can be enabled or disabled by checking or clearing the **Alarm Time Enabled** checkbox.

Configure: [Configure Alarm Time Matrix](#)

Alarm Enabled

Alarm Enabled checkbox used to enable or disable all of the alarming functionality for this channel.

Checked:	Alarming Enabled for this channel
Cleared:	Alarming Disabled for this channel

Alarm Time Enabled

Alarm Time Enabled checkbox used to enable or disable all of the **Alarm Time Matrix** functionality for this channel.

Checked:	Alarm Time Matrix Enabled for this channel
Cleared:	Alarm Time Matrix Disabled for this channel

Low Alarm Set Point

The **Low Alarm Set Point** of this channel.

Note: Functions in conjunction with the **Low Alarm Delay** time of this channel.

Type:	Numeric
Range:	-1000 to 1000
Format:	####.##

Low Alarm Delay

The **Low Alarm Delay** time (**minutes**) of this channel sets how long the value of the channel must be equal to or less than the **Low Alarm Set Point** of this channel in order for a **Low Alarm** to be triggered.

Type: Numeric
Range: 0 to 1440
Format: #####.#

Low Alarm Reset

The **Low Alarm Reset** time (**minutes**) of this channel sets how long the value of the channel must be greater than the **Low Alarm Set Point** of this channel in order for a **Low Alarm** to recover.

Type: Numeric
Range: 0 to 1440
Format: #####.#

Low Warn Set Point

The **Low Warn Set Point** of this channel.

Note: Functions in conjunction with the **Low Warn Delay** time of this channel.

Type: Numeric
Range: -1000 to 1000
Format: #####.##

Low Warn Delay

The **Low Warn Delay** time (**minutes**) of this channel sets how long the value of the channel must be equal to or less than the **Low Warn Set Point** of this channel in order for a **Low Warning** to be triggered.

Type: Numeric
Range: 0 to 1440
Format: #####.#

Low Warn Reset

The **Low Warn Reset** time (**minutes**) of this channel sets how long the value of the channel must be greater than the **Low Warn Set Point** of this channel in order for a **Low Warning** to recover.

Type: Numeric
Range: 0 to 1440
Format: #####.#

Low Force Alarm Set Point

The **Low Force Alarm Set Point** of this channel. If this set point is reached then the **Low Alarm Delay** time of this channel will be bypassed and a **Low Force Alarm** will be immediately triggered.

Type: Numeric
Range: -1000 to 1000
Format: #####.##

Low Rewarn Value

The **Low Rewarn Value** of this channel sets how much further below the **Low Alarm Set Point** of this channel the value must reach in order for a **Low Rewarn** to be triggered. Used to prevent runaway conditions.

Type: Numeric
Range: 0 to 100
Format: ###.#
Note: Enter Zero (0) to Disable

Low Alarm Echo Time

The **Low Alarm Echo** time (**minutes**) of this channel sets how long the value of the channel must be equal to or less than the **Low Alarm Set Point** of this channel *after* a **Low Alarm** has sounded in order for a **Low Alarm Echo** to be triggered. Used as a reminder that the channel is still in a **Low Alarm** state.

Type: Numeric
Range: 0 to 1440
Format: #####
Note: Enter Zero (0) to Disable

High Alarm Set Point

The **High Alarm Set Point** of this channel.

Note: Functions in conjunction with the **High Alarm Delay** time of this channel.

Type: Numeric
Range: -1000 to 1000
Format: #####.##

High Alarm Delay

The **High Alarm Delay** time (**minutes**) of this channel sets how long the value of the channel must be equal to or greater than the **High Alarm Set Point** of this channel in order for a **High Alarm** to be triggered.

Type: Numeric
Range: 0 to 1440
Format: #####.#

High Alarm Reset

The **High Alarm Reset** time (**minutes**) of this channel sets how long the value of the channel must be less than the **High Alarm Set Point** of this channel in order for a **High Alarm** to recover.

Type: Numeric
Range: 0 to 1440
Format: #####.#

High Warn Set Point

The **High Warn Set Point** of this channel.

Note: Functions in conjunction with the **High Warn Delay** time of this channel.

Type: Numeric
Range: -1000 to 1000

Format: #####.##

High Warn Delay

The **High Warn Delay** time (**minutes**) of this channel sets how long the value of the channel must be equal to or greater than the **High Warn Set Point** of this channel in order for a **High Warning** to be triggered.

Type: Numeric
Range: 0 to 1440
Format: #####.#

High Warn Reset

The **High Warn Reset** time (**minutes**) of this channel sets how long the value of the channel must be less than the **High Warn Set Point** of this channel in order for a **High Warning** to recover.

Type: Numeric
Range: 0 to 1440
Format: #####.#

High Force Alarm Set Point

The **High Force Alarm Set Point** of this channel. If this set point is reached then the **High Alarm Delay** time of this channel will be bypassed and a **High Force Alarm** will be immediately triggered.

Type: Numeric
Range: -1000 to 1000
Format: #####.##

High Rewarn Value

The **High Rewarn Value** of this channel sets how much further above the **High Alarm Set Point** of this channel the value must reach in order for a **High Rewarn** to be triggered. Used to prevent runaway conditions.

Type: Numeric
Range: 0 to 100
Format: ###.#
Note: Enter Zero (0) to Disable

High Alarm Echo Time

The **High Alarm Echo** time (**minutes**) of this channel sets how long the value of the channel must be equal to or greater than the **High Alarm Set Point** of this channel *after* a **High Alarm** has sounded in order for a **High Alarm Echo** to be triggered. Used as a reminder that the channel is still in a **High Alarm** state.

Type: Numeric
Range: 0 to 1440
Format: #####
Note: Enter Zero (0) to Disable

Buttons

Previous Selects the Previous Alarm Settings Template by Number (Number Not Shown)

Edit	Places the form into Update mode for Updating the Alarm Settings Template
New	Places the form into Insert mode for Adding a new Alarm Settings Template
Print	Displays a Printable Report for the selected Alarm Settings Template
Print All	Displays a Printable Report for all of the Alarm Settings Templates
Print Channel List	Displays a Printable Report listing all Channels that have this Alarm Settings Template assigned to them
Insert	<i>Insert Mode</i> - Validates the page and Adds the Alarm Settings Template if there are no errors
Update	<i>Update Mode</i> - Validates the page and Updates the Alarm Settings Template if there are no errors
Cancel	<i>Update / Insert Mode</i> - Cancels the Update or Insert and places the page in View mode
Next	Selects the Next Alarm Settings Template by Number (Number Not Shown)

Configure Alarm Time Matrix

The **Alarm Time Matrix (ATM)** provides a method of “Enabling” or “Disabling” channel alarming based upon a 24 hour per day, 7 day per week grid. To “Disable” alarming for a certain day and time, locate the row for that day and column for that time, then check the box . To “Enable” alarming for a certain day and time simply clear the checkbox in the corresponding row and column.

Once you have configured the **ATM** to suit your needs, you will need to configure the channels you wish to use the **ATM**. On the [Configure Channels](#) page you can “Enable” the **Alarm Time Matrix** and select the **Matrix** to be used for each channel you wish.

Matrix Name

Unique **Name** for the Alarm Time Matrix.

Type:	Alphanumeric
Max Length:	32 Characters
Excluded:	Unassigned
Note:	This name can be any alphanumeric that you choose, i.e., Weekdays, Weekends, John's Matrix, etc. However, whatever system is used, each one must be unique.

Department

The **Department** that this Alarm Time Matrix belongs to.

Configure: [Configure Department](#)

Matrix Checkbox

Alarming Disabled Checkbox used to enable or disable all of the channel alarming functionality for each day (row) and time (column) combination.

Checked:	Alarming Disabled for this day and time combination
Cleared:	Alarming Enabled for this day and time combination

Buttons

Previous	Selects the Previous Alarm Time Matrix by Number (Number Not Shown)
Edit	Places the form into Update mode for Updating the Alarm Time Matrix
New	Places the form into Insert mode for Adding a new Alarm Time Matrix
Print	Displays a Printable Report for the selected Alarm Time Matrix
Print All	Displays a Printable Report for all of the Alarm Time Matrices
Print Channel List	Displays a Printable Report listing all Channels that have this Alarm Time Matrix assigned to them
Insert	<i>Insert Mode</i> - Validates the page and Adds the Alarm Time Matrix if there are no errors
Update	<i>Update Mode</i> - Validates the page and Updates the Alarm Time Matrix if there are no errors
Cancel	<i>Update / Insert Mode</i> - Cancels the Update or Insert and places the page in View mode
Next	Selects the Next Alarm Time Matrix by Number (Number Not Shown)

Configure Auto Phone Reports

Configurable Reporting of Current Channel Data and Alarm Status via Phone and Email.

Report Name

Unique name for the Report.

Type:	Alphanumeric
Max Length:	32 Characters
Excluded:	Unassigned
Note:	This name can be any alphanumeric that you choose, i.e., Dave's Channel Report, Freezers, Hourly Report, etc. However, whatever system is used, each one must be unique.

Department

The **Department** that this Report belongs to.

Configure: [Configure Department](#)

Notification Schedule

24 x 7 **Notification Schedule** used to set which **Notification List** is used based on time of day and day of week.

Note: All **Notification** (Phone, Email and Text Message) functionality for this Report will be disabled by setting the value to "**Unassigned**".

Configure: [Configure Notification Schedule](#)

Active

Active checkbox used to enable or disable all of the report functionality for this Report.

Checked:	Report Enabled
Cleared:	Report Disabled

Select Group

Select the Channels to be displayed in the [Select Channels](#) list. Options are All Channels available to the user or a custom, user defined [Group](#) of Channels

Select Channels

Select one or more Channels for the Report.

Select:
<Ctrl> + Click: Select 1 at a time
<Shift> + Click: Select all in between

Buttons

Edit	Places the form into Update mode for Updating the Report
New	Places the form into Insert mode for Adding a new Report
Insert	<i>Insert Mode</i> - Validates the page and Adds the Report if there are no errors
Update	<i>Update Mode</i> - Validates the page and Updates the Report if there are no errors
Cancel	<i>Update / Insert Mode</i> - Cancels the Update or Insert and places the page in View mode

Configure Campus

Configure the different Campuses where Datatron channels are located.

Campus Name

Unique name for the Campus.

Type:	Alphanumeric
Max Length:	32 Characters
Excluded:	Unassigned
Note:	This name can be any alphanumeric that you choose, i.e., Northeast, Flanders, NJ, etc. However, whatever system is used, each one must be unique.

Street Address

Street address of the campus.

Type:	Alphanumeric
Max Length:	64 Characters

City

City where the campus resides.

Type:	Alphanumeric
Max Length:	32 Characters

State

State where the campus resides.

Type:	Alphanumeric
Max Length:	32 Characters

Zip

Campus Zip Code or Postal Code.

Type:	Alphanumeric
Max Length:	10 Characters

Country

Country where the campus resides.

Type:	Alphanumeric
Max Length:	32 Characters

Buttons

Edit	Places the form into Update mode for Updating the Campus
New	Places the form into Insert mode for Adding a new Campus
Insert	<i>Insert Mode</i> - Validates the page and Adds the Campus if there are no errors
Update	<i>Update Mode</i> - Validates the page and Updates the Campus if there are no errors
Cancel	<i>Update / Insert Mode</i> - Cancels the Update or Insert and places the page in View mode

Configure Department

The different departments that have access to the Datatron.

Department Name

Unique name for the department.

Type:	Alphanumeric
Max Length:	32 Characters
Excluded:	Unassigned
Note:	This name can be any alphanumeric that you choose, i.e., Blood Bank, Hospital Services, Maintenance, etc. However, whatever system is used, each one must be unique.

Buttons

Edit	Places the form into Update mode for Updating the Department
New	Places the form into Insert mode for Adding a new Department
Insert	<i>Insert Mode</i> - Validates the page and Adds the Department if there are no errors
Update	<i>Update Mode</i> - Validates the page and Updates the Department if there are no errors
Cancel	<i>Update / Insert Mode</i> - Cancels the Update or Insert and places the page in View mode

Configure Engineering Unit

The unit of measure used to describe the value of the channel.

Eng. Unit

Engineering Unit of measure.

Type:	Alphanumeric
Max Length:	8 Characters
Note:	This name can be any alphanumeric that you choose, i.e., C, F, %RH, %CO2, Volts, etc. However, whatever system is used, each one must be unique.

Buttons

Edit	Places the form into Update mode for Updating the Engineering Unit
New	Places the form into Insert mode for Adding a new Engineering Unit
Insert	<i>Insert Mode</i> - Validates the page and Adds the Engineering Unit if there are no errors
Update	<i>Update Mode</i> - Validates the page and Updates the Engineering Unit if there are no errors
Cancel	<i>Update / Insert Mode</i> - Cancels the Update or Insert and places the page in View mode

Configure Floor

The floor where the channel resides.

Floor Name

Unique name for the floor.

Type:	Alphanumeric
Max Length:	32 Characters
Excluded:	Unassigned
Note:	This name can be any alphanumeric that you choose, i.e., 1st, Basement, 3, etc. However, whatever system is used, each one must be unique.

Buttons

Edit	Places the form into Update mode for Updating the Floor
New	Places the form into Insert mode for Adding a new Floor
Insert	<i>Insert Mode</i> - Validates the page and Adds the Floor if there are no errors
Update	<i>Update Mode</i> - Validates the page and Updates the Floor if there are no errors
Cancel	<i>Update / Insert Mode</i> - Cancels the Update or Insert and places the page in View mode

Configure Heartbeat Monitor

The **Configure Heartbeat Monitor** page provides a method of assigning Email and Text Message Addresses for use by local and / or remote Datatron Heartbeat Monitor Service. This service is used to notify system administrators of a potential catastrophic problem with the Datatron Program (local and remote service) and to attempt a reboot (local service) in an attempt to automatically fix the problem. These settings should only be changed by a System Administrator. If the Remote Heartbeat Monitor Service is enabled changes made on this page will be sent to the Remote Service. Only Users with the [All Departments](#) security privilege can access this page.

Alert Delay

Alert Delay: (Remote Service Only) Time from last heartbeat received by the remote server before text / email alerts are sent. (60 to 240 Minutes)

Alert Echo

Alert Echo: (Remote Service Only) Time from last heartbeat received by the remote server before text / email alerts are sent. (60 to 240 Minutes)

User Name

User Name: (Remote & Local) The User to be notified

Email Address

Email Address: (Remote & Local) The Email Address for the corresponding User

Text Message Address

Text Message Address: (Remote & Local) The Text Message Address for the corresponding User

Buttons

Edit	Places the form into Update mode for Updating the Heartbeat Monitor Configuration
Insert	<i>Insert Mode</i> - Validates the page and Adds the Heartbeat Monitor Configuration if there are no errors
Update	<i>Update Mode</i> - Validates the page and Updates the Heartbeat Monitor Configuration if there are no errors
Cancel	<i>Update / Insert Mode</i> - Cancels the Update or Insert and places the page in View mode

Configure Nodes

Configuration settings for the IP Addressable Data Acquisition Devices (Nodes)

Node Type

The Hardware Type of the Node. Can only be set by R&D Scientific personnel.
Options include:

IPX	Expanded IP Addressable Node
X420	4 Port Ethernet Node

Node ID

The Node ID is used for communication with the Node and can only be set by R&D Scientific personnel.

Node Name

Unique **Name** for the Node that is assigned by R&D Scientific personnel and uses a specific naming convention used for ease of identification.

Node Active

Node Active checkbox used to enable or disable all of the data acquisition functionality for this node.

Checked:	Data Acquisition Enabled for this Node
Cleared:	Data Acquisition Disabled for this Node

Node Timeout

The **Node Timeout** value (**minutes**) of this node sets how long after communication has been lost with the Node before a [Node Error Alarm](#) is triggered.

Type:	Numeric
Range:	1 to 60
Format:	##

IP Address

IP Address of this Node.

Format:	###.###.###.###
---------	-----------------

Subnet Mask

Subnet Mask of the Network.

Format:	###.###.###.###
---------	-----------------

Gateway

IP Address of the Network Gateway.

Format:	###.###.###.###
---------	-----------------

Campus

The **Campus** where this Node is located.

Configure: [Configure Campus](#)

Building

The **Building** where this Node is located.

Configure: [Configure Building](#)

Floor

The **Floor** where this Node is located.

Configure: [Configure Floor](#)

Room

The **Room** where this Node is located.

Configure: [Configure Room](#)

Alarm Message

The **Alarm Message** text box allows you to append an additional custom Alarm Message to Phone, Email, and Text Message Alarm Notifications for this Node.

Type: Alphanumeric
Max Length: 256 Characters

Channel Mapping

The "Channel Mapping" section contains a "Select Channel" field and fields for each of the sixteen (16) "ANALOG INPUTS" and for each of the eight (8) "SWITCH INPUTS." In general, the "Node Input" is assigned during initial installation and set up. The fields numbered "0" through "15" correspond to the sixteen, 4-20 mA input channels provided for a given expanded node. The fields numbered "16" through "23" correspond to the eight switched inputs, such as dry contacts, that are also provided.

Select Channel

Select a Channel to [Map](#) to the desired Node Input.

Select: [Click to Select 1 Channel](#)

Input 0

Click the **"Map"** button to Map the Selected Channel to Analog Input 0.

Input 1

Click the **"Map"** button to Map the Selected Channel to Analog Input 1.

Input 2

Click the **"Map"** button to Map the Selected Channel to Analog Input 2.

Input 3

Click the **"Map"** button to Map the Selected Channel to Analog Input 3.

Input 4

Click the **"Map"** button to Map the Selected Channel to Analog Input 4.

Input 5

Click the **"Map"** button to Map the Selected Channel to Analog Input 5.

Input 6

Click the **"Map"** button to Map the Selected Channel to Analog Input 6.

Input 7

Click the **"Map"** button to Map the Selected Channel to Analog Input 7.

Input 8

Click the **"Map"** button to Map the Selected Channel to Analog Input 8.

Input 9

Click the **"Map"** button to Map the Selected Channel to Analog Input 9.

Input 10

Click the **"Map"** button to Map the Selected Channel to Analog Input 10.

Input 11

Click the **"Map"** button to Map the Selected Channel to Analog Input 11.

Input 12

Click the **"Map"** button to Map the Selected Channel to Analog Input 12.

Input 13

Click the **"Map"** button to Map the Selected Channel to Analog Input 13.

Input 14

Click the **"Map"** button to Map the Selected Channel to Analog Input 14.

Input 15

Click the **"Map"** button to Map the Selected Channel to Analog Input 15.

Input 16

Click the **"Map"** button to Map the Selected Channel to Digital Input 16.

Input 17

Click the **"Map"** button to Map the Selected Channel to Digital Input 17.

Input 18

Click the **"Map"** button to Map the Selected Channel to Digital Input 18.

Input 19

Click the **"Map"** button to Map the Selected Channel to Digital Input 19.

Input 20

Click the **"Map"** button to Map the Selected Channel to Digital Input 20.

Input 21

Click the **"Map"** button to Map the Selected Channel to Digital Input 21.

Input 22

Click the **"Map"** button to Map the Selected Channel to Digital Input 22.

Input 23

Click the **"Map"** button to Map the Selected Channel to Digital Input 23.

Buttons

Previous	Selects the Previous Node by Number (Number Not Shown)
Edit	Places the form into Update mode for Updating the Node
New	Places the form into Insert mode for Adding a new Node
Insert	<i>Insert Mode</i> - Validates the page and Adds the Node if there are no errors
Print	Displays a Printable Report for the selected Node
Print All	Displays a Printable Report for all of the Nodes
Firmware Cfg	Displays a Printable Firmware Configuration Report for all of the Nodes
Battery Levels	Displays a Printable Report with the last battery level reading for all active Nodes
Update	<i>Update Mode</i> - Validates the page and Updates the Node if there are no errors
Cancel	<i>Update / Insert Mode</i> - Cancels the Update or Insert and places the page in View mode
Node Status	View <i>Real Time Status</i> of the Node and Mapped Channels
Map	<i>Update / Insert Mode</i> - Maps the Selected Channel in the Select Channel field to the corresponding Node Input. Select the Channel <i>"Unassigned"</i> to leave the Node Input unmapped to a channel.
Suspend Alarms	Activates the Suspend Alarm Modal Window - See Below
Next	Selects the Next Node by Number (Number Not Shown)

Suspend Alarms

Temporarily suspends alarms and warnings for all Channel(s) that are Mapped to this Node until the entered date and time.

Date: MM/DD/YY or use the Calendar Popup.

Time: HH:mm (24 hour clock) or use the Time Picker Popup.

Comment: A comment is required for this change.

Notes: Entered Date and Time must be later than the current Date and Time. The All Departments and Channels permissions are required for the User's Security Level to access this feature as well as permissions to Nodes. Alarms for all channels assigned to the selected Node will be suspended until the input date and time. If the channel already has an alarm suspend date that is greater than the input date no change will be made to that channel.

Configure Message Center

The settings for each *Message Center*.

Message Center

Unique name for the *Message Center*.

Type:	Alphanumeric
Max Length:	32 Characters
Excluded:	Unassigned
Note:	This name can be any alphanumeric that you choose, i.e., 1, MessCtr2, Mike's MC, etc. However, whatever system is used, each one must be unique.

Type

Type of Message Center.

Options:	TCP/IP (Networked Remote) RS232 (Local Hardwired)
----------	--

Active

Active checkbox used to enable or disable this message center.

Checked:	Message Center Enabled
Cleared:	Message Center Disabled

Address

Hardware Address of this message center.

Range:	0 to 99
Format:	##

IP Address

IP Address of this message center. Used by TCP/IP type.

Format:	###.###.###.###
Note:	Can be left blank if the Message Center Type is RS232

Com Port

Serial Communications Port of this message center. Used by RS232 type.

Options:	Com 1 Com 2 Com 3 Com 4
Note:	Not used if the Message Center Type is TCP/IP

Buttons

Edit	Places the form into Update mode for Updating the Message Center
New	Places the form into Insert mode for Adding a new Message Center
Verify	Sends a Verification Message to the Message Center
Insert	<i>Insert Mode</i> - Validates the page and Adds the Message Center if there are no errors
Update	<i>Update Mode</i> - Validates the page and Updates the Message Center if there are no errors
Cancel	<i>Update / Insert Mode</i> - Cancels the Update or Insert and places the page in View mode

Configure Message Center Contact

The point of contact information displayed on the Message Center.

Contact Name

Unique **Name** for the contact.

Type:	Alphanumeric
Max Length:	32 Characters
Excluded:	Unassigned
Note:	This name can be any alphanumeric that you choose, i.e., Bob, Jane Doe, Facilities, etc. However, whatever system is used, each one must be unique.

Contact Phone

The **Phone Number** to be displayed for the contact.

Type:	Alphanumeric
Max Length:	32 Characters
Note:	This phone number is not used to make any calls through the system, only as a visual reference on the Message Center

Buttons

Edit	Places the form into Update mode for Updating the Message Center Contact
New	Places the form into Insert mode for Adding a new Message Center Contact
Insert	<i>Insert Mode</i> - Validates the page and Adds the Message Center Contact if there are no errors
Update	<i>Update Mode</i> - Validates the page and Updates the Message Center Contact if there are no errors
Cancel	<i>Update / Insert Mode</i> - Cancels the Update or Insert and places the page in View mode

Configure Nodes

Configuration settings for the Data Acquisition Devices (Nodes)

Node Type

The Hardware Type of the Node. Can only be set by R&D Scientific personnel.
Options include:

FT	Standard Free Topology Node
FTX	Expanded Free Topology Node
PL	Standard Power Line Node

Node Index

The Node Index is used for communication with the Node and can only be set by R&D Scientific personnel.

Master Index

The Node Master Index is used for communication with the Node and can only be set by R&D Scientific personnel.

Node Name

Unique **Name** for the Node that is assigned by R&D Scientific personnel and uses a specific naming convention used for ease of identification.

Node Active

Node Active checkbox used to enable or disable all of the data acquisition functionality for this node.

Checked:	Data Acquisition Enabled for this Node
Cleared:	Data Acquisition Disabled for this Node

Node Timeout

The **Node Timeout** value (**minutes**) of this node sets how long after communication has been lost with the Node before a [Node Error Alarm](#) is triggered.

Type:	Numeric
Range:	1 to 60
Format:	##

Campus

The **Campus** where this Node is located.

Configure: [Configure Campus](#)

Building

The **Building** where this Node is located.

Configure: [Configure Building](#)

Floor

The **Floor** where this Node is located.

Configure: [Configure Floor](#)

Room

The **Room** where this Node is located.

Configure: [Configure Room](#)

Alarm Message

The **Alarm Message** text box allows you to append an additional custom Alarm Message to Phone, Email, and Text Message Alarm Notifications for this Node.

Type: Alphanumeric
Max Length: 256 Characters

Channel Mapping

The “Channel Mapping” section contains a “Select Channel” field and fields for each of the four (4) “ANALOG INPUTS” and for each of the two (2) “SWITCH INPUTS.” In general, the “Node Input” is assigned during initial installation and set up. The fields numbered “0” through “3” correspond to the four, 4-20 mA input channels provided for a given node or, for expanded nodes, sub-node. The fields numbered “4” and “5” correspond to the two switched inputs, such as dry contacts, that are also provided..

Select Channel

Select a Channel to [Map](#) to the desired Node Input.

Select: [Click to Select 1 Channel](#)

Input 0

Click the **“Map”** button to Map the Selected Channel to Analog Input 0.

Input 1

Click the **“Map”** button to Map the Selected Channel to Analog Input 1.

Input 2

Click the **“Map”** button to Map the Selected Channel to Analog Input 2.

Input 3

Click the **“Map”** button to Map the Selected Channel to Analog Input 3.

Input 4

Click the **“Map”** button to Map the Selected Channel to Digital Switch Input 4.

Input 5

Click the **“Map”** button to Map the Selected Channel to Digital Switch Input 5.

Select: [Click to Select 1 Channel](#)

Buttons

Previous	Selects the Previous Node by Number (Number Not Shown)
Edit	Places the form into Update mode for Updating the Node
New	Places the form into Insert mode for Adding a new Node
Insert	<i>Insert Mode</i> - Validates the page and Adds the Node if there are no errors
Print	Displays a Printable Report for the selected Node
Print All	Displays a Printable Report for all of the Nodes
Update	<i>Update Mode</i> - Validates the page and Updates the Node if there are no errors
Cancel	<i>Update / Insert Mode</i> - Cancels the Update or Insert and places the page in View mode
Node Status	View <i>Real Time Status</i> of the Node and Mapped Channels
Map	<i>Update / Insert Mode</i> - Maps the Selected Channel in the Select Channel field to the corresponding Node Input. Select the Channel " <i>Unassigned</i> " to leave the Node Input unmapped to a channel.
Suspend Alarms	Activates the Suspend Alarm Modal Window - See Below
Next	Selects the Next Node by Number (Number Not Shown)

Suspend Alarms

Temporarily suspends alarms and warnings for all Channel(s) that are Mapped to this Node until the entered date and time.

Date:	MM/DD/YY or use the Calendar Popup.
Time:	HH:mm (24 hour clock) or use the Time Picker Popup.
Comment:	A comment is required for this change.
Notes:	Entered Date and Time must be later than the current Date and Time. The All Departments and Channels permissions are required for the User's Security Level to access this feature as well as permissions to Nodes. Alarms for all channels assigned to the selected Node will be suspended until the input date and time. If the channel already has an alarm suspend date that is greater than the input date no change will be made to that channel.

Configure Notification List

The **Notification List (NL)** provides a method of notifying a user or group of users of **Alarm(s)** and / or **Warning(s)**. Each **NL** can have up to sixteen (16) users, with each user having up to five (5) methods of being contacted. The notification process will start at Entry 1, attempt to contact the user by each method configured for that user beginning with email and / or text message if enabled followed by Phone 1, Phone 2, and Phone 3, and then proceed down the list in order until the call has been responded to. If there is no response after attempting to contact all of the Users in the List the Notification System will either move on to the next Alarm in the Notification Queue or if this is the only List scheduled for a Notification then it will start over with Entry 1. If there is no response after 3 attempts through a particular List the Notification System will pause any further attempts for that particular List for 15 minutes, unless a new alarm occurs that requires Notification of this List. This is to prevent any one or more particular unresponsive Lists from clogging the Notification System and potentially causing unnecessary delays in Notification of other Lists and to help prevent over use of the phone dialer.

Once you have configured the **NL** to suit your needs, you will need to configure the **Notification Schedule** you wish to use the **NL** with. On the [Notification Schedule](#) page you can assign the **Notification Lists** to be used for **Alarms** and **Warnings** for each particular time of day / day of week for that schedule.

List Name

Unique **Name** for the Notification List.

Type:	Alphanumeric
Max Length:	32 Characters
Excluded:	Unassigned
Note:	This name can be any alphanumeric that you choose, i.e., Weekdays, Weekends, John's Call List, etc. However, whatever system is used, each one must be unique.

Department

The **Department** that this Notification Schedule belongs to.

Configure: [Configure Department](#)

Call Delay

The number of **minutes** from the time the alarm or warning is sounded until the notification process is started for that event.

Type:	Numeric
Range:	0 to 1440
Format:	#####
Note:	Call Delay is bypassed and the call is queued immediately if there are existing calls in the phone queue for that Notification List. This is to help minimize the amount of calls necessary for notification.

Entry

The **List Entry** in order from 1 to 16.

Range: 1 to 16

User

The **User** to be notified.

Configure: [Create User or Update User](#)

Phone 1

The first phone number to attempt for that user.

Options: Unassigned
Work Phone
Cell Phone
Home Phone

Configure: [Create User](#) or [Update User](#)

Note: Set to "**Unassigned**" to skip this Phone

Phone 2

The second phone number to attempt for that user.

Options: Unassigned
Work Phone
Cell Phone
Home Phone

Configure: [Create User](#) or [Update User](#)

Note: Set to "**Unassigned**" to skip this Phone

Phone 3

The third phone number to attempt for that user.

Options: Unassigned
Work Phone
Cell Phone
Home Phone

Configure: [Create User](#) or [Update User](#)

Note: Set to "**Unassigned**" to skip this Phone

Email

Email Checkbox to enable or disable sending an **Email** message to the **User**.

Checked: Email Enabled for this user
Cleared: Email Disabled for this user

Text Message

Text Message Checkbox to enable or disable sending a **Text Message** to the **User**.

Checked: Text Message Enabled for this user
Cleared: Text Message Disabled for this user

Buttons

Previous	Selects the Previous List by List Number
Edit	Places the form into Update mode for Updating the Notification List
New	Places the form into Insert mode for Adding a new Notification List
Print	Displays a Printable Report for the selected Notification List
Print All	Displays a Printable Report for all of the Notification Lists
Insert	<i>Insert Mode</i> - Validates the page and Adds the Notification List if there are no errors

Update	<i>Update Mode</i> - Validates the page and Updates the Notification List if there are no errors
Cancel	<i>Update / Insert Mode</i> - Cancels the Update or Insert and places the page in View mode
Next	Selects the Next List by List Number
Copy / Paste / Cancel	Copy the selected row and paste it into another row or cancel the copy function
Delete	Deletes the selected row and adds a blank row to the bottom of the list

Configure Notification Schedule

The **Notification Schedule (NS)** provides a method of assigning a **Notification List (NL)** to be used based upon a 24 hour per day, 7 day per week grid. To assign a **NL** for a certain day and time, locate the row for that day and column for that time, then enter the number of the **Notification List** you wish to use in the corresponding box.

Once you have configured the **NS** to suit your needs, you will need to configure the channels you wish to use the **NS**. On the [Configure Channels](#) page you can select the **Notification Schedule** to be used for **Alarms** and **Warnings** for that channel.

Schedule Name

Unique **Name** for the Notification Schedule.

Type:	Alphanumeric
Max Length:	32 Characters
Excluded:	Unassigned
Note:	This name can be any alphanumeric that you choose, i.e., Weekdays, Weekends, John's Call Schedule, etc. However, whatever system is used, each one must be unique.

Department

The **Department** that this Notification Schedule belongs to.

Configure: [Configure Department](#)

Call All

Denotes that this Notification Schedule will **Call All** users on the **Notification List** until every user on that list has responded to the call with an **Acknowledgement** or **Negative Acknowledgement**. Used primarily for an Emergency Notification List where all parties on the list are required to be notified of an event.

Checked:	Call every user on the list until all users have responded
Cleared:	Call until one user responds

Notification List Grid

24 x 7 Grid used to assign a **Notification List** for each day (row) and time (column) combination.

List Number: Enter the Notification List for this day and time combination. The number must match a valid Notification List. Enter 0 (zero) to disable calls during a particular day and time combination

Buttons

Previous	Selects the Previous Schedule by Schedule Number (Number Not Shown)
Edit	Places the form into Update mode for Updating the Notification Schedule
New	Places the form into Insert mode for Adding a new Notification Schedule
Print	Displays a Printable Report for the selected Notification Schedule
Print All	Displays a Printable Report for all of the Notification Schedules
Print Channel List	Displays a Printable Report listing all Channels that have this Notification Schedule assigned to them
Insert	<i>Insert Mode</i> - Validates the page and Adds the Notification Schedule if there are no errors
Update	<i>Update Mode</i> - Validates the page and Updates the Notification Schedule if there are no errors
Cancel	<i>Update / Insert Mode</i> - Cancels the Update or Insert and places the page in View mode
Next	Selects the Next Schedule by Schedule Number (Number Not Shown)

Configure Product

The product being monitored by the channel.

Product Name

Unique name for the product.

Type:	Alphanumeric
Max Length:	32 Characters
Excluded:	Unassigned
Note:	This name can be any alphanumeric that you choose, i.e., Platelets, Pastry, Trials, etc. However, whatever system is used, each one must be unique.

Buttons

Edit	Places the form into Update mode for Updating the Product
New	Places the form into Insert mode for Adding a new Product
Insert	<i>Insert Mode</i> - Validates the page and Adds the Product if there are no errors
Update	<i>Update Mode</i> - Validates the page and Updates the Product if there are no errors
Cancel	<i>Update / Insert Mode</i> - Cancels the Update or Insert and places the page in View mode

Configure Room

The room where the channel resides.

Room Name

Unique name for the room.

Type:	Alphanumeric
Max Length:	32 Characters
Excluded:	Unassigned
Note:	This name can be any alphanumeric that you choose, i.e., 101, Chemistry Lab, Storage, etc. However, whatever system is used, each one must be unique.

Buttons

Edit	Places the form into Update mode for Updating the Room
New	Places the form into Insert mode for Adding a new Room
Insert	<i>Insert Mode</i> - Validates the page and Adds the Room if there are no errors
Update	<i>Update Mode</i> - Validates the page and Updates the Room if there are no errors
Suspend Alarms	Activates the Suspend Alarm Modal Window - See Below
Cancel	<i>Update / Insert Mode</i> - Cancels the Update or Insert and places the page in View mode

Suspend Alarms

Temporarily suspends alarms and warnings for all Channel(s) that have this Room assigned until the entered date and time.

Date:	MM/DD/YY or use the Calendar Popup.
Time:	HH:mm (24 hour clock) or use the Time Picker Popup.
Comment:	A comment is required for this change.
Notes:	Entered Date and Time must be later than the current Date and Time. The All Departments and Channels permissions are required for the User's Security Level to access this feature as well as permissions to Room. Alarms for all channels assigned to the selected Room will be suspended until the input date and time. If the channel already has an alarm suspend date that is greater than the input date no change will be made to that channel.

Configure Remote Display

The Remote Display can show Current Alarms and / or Current Data without being logged into the system. The Remote Display can be any web enabled device such as a Computer, Tablet, or Smart TV. It is user configurable with the parameters listed below.

Available Channels

All **Channels** that are available to your user account

Selected Channels

Channels that have been added to this Display

Display Name

Unique **Name** for the Remote Display. This name is used by the Remote Display when accessing the web page. For example: <http://www.rdsci.com/dtnext/Pages/RemoteDisplay.aspx?Display=Lab>

Type:	Alphanumeric
Max Length:	32 Characters
Note:	This name can be any alphanumeric that you choose, i.e., Refrigerators, Lab, Blood Bank, etc. However, whatever system is used, each one must be unique.

Display Parameters

Configurable Parameters for the Remote Display

Display Data:	Show Current Data for the Selected Channel(s) when enabled
Channel Alarms:	Show Current Channel Alarms, if any, for the Selected Channel(s) when enabled
System Alarms:	Show Current System Alarms, if any, when enabled
Alarm Refresh:	Alarm Table Refresh Rate (5-60 seconds). Will Refresh the Alarms and go to the next Alarm page if the Alarm Table is paginated.
Data Refresh:	Data Table Refresh Rate (5-60 seconds). Will Refresh the Data and go to the next Data page if the Data Table is paginated.
Alarm Rows:	Maximum Number of Alarms to Display per Page (1 to 50). Adjust this to fit your Display. Alarms will paginate above the set number.
Data Rows:	Maximum Number of Channels to Display per Page (1 to 50). Adjust this to fit your Display. Data will paginate above the set number.

Data Columns

Configurable Parameters for the Current Data Table on the Remote Display

Serial Number:	Display the Serial / ECN Number for the Selected Channel(s) when enabled
Department:	Display the Department for the Selected Channel(s) when enabled
Building:	Display the Building for the Selected Channel(s) when enabled
Floor:	Display the Floor for the Selected Channel(s) when enabled
Room:	Display the Room for the Selected Channel(s) when enabled
Product:	Display the Product for the Selected Channel(s) when enabled
Node:	Display the Node (Data Acquisition Device) for the Selected Channel(s) when enabled

Buttons

Add	Adds one or more channels from the Available Channels box to the Selected Channels box. To select multiple channels use <ctrl> + click or <shift> + click on the Available Channels before Adding.
Remove	Removes one or more channels from the Selected Channels box. To select multiple channels use <ctrl> + click or <shift> + click on the Selected Channels before Removing.
Add All	Adds All Available Channels to the Selected Channel box
Remove All	Removes all Channels from the Selected Channel box
Add Display	Validates the page and Adds the Display if there are no errors
Update Display	Validates the page and Updates the selected Display if there are no errors
Delete Display	Removes the selected Display from the system

Configure Security Levels

Configurable Security Permissions based on User Defined Levels. Check the box next to each field the selected Level will be granted access to.

Level Name

Unique **Name** for the Security Level.

Type:	Alphanumeric
Max Length:	32 Characters
Excluded:	Unassigned
Note:	This name can be any alphanumeric that you choose, i.e., General User, Technician, Scientist, etc. However, whatever system is used, each one must be unique.

Change Password

Access to the [Change Password](#) page.

Create User

Access to the [Create User](#) page.

Update User

Access to the [Update User](#) page.

Security Levels

Access to the [Configure Security Levels](#) page.

System Security

Access to the [Configure System Security](#) page.

All Departments

Can Access **Channels** in Every Department.

Departments

Access to the [Configure Department](#) page.

Current Data

Access to the [Current Data](#) page.

Current Alarms

Access to the [Current Alarms](#) page.

Channel Alarms

Can **Comment** [Channel Alarms](#) as long as the user also has rights to **Current Alarms**.

System Alarms

Can **Comment** [System Alarms](#) as long as the user also has rights to **Current Alarms**.

Finish Alarms

Can **Finish** [Channel Alarms](#) and / or [System Alarms](#) as long as the user has rights to **Channel Alarms** and / or **Finish Alarms** as well as **Current Alarms**.

Calibration

Access to the [Channel Calibration](#) page.

System Settings

Access to the [Configure System Settings](#) page.

Backup

Access to the [Manual Backup](#) page.

Notification Schedule

Access to the [Configure Notification Schedule](#) page.

Notification List

Access to the [Configure Notification List](#) page.

Message Center

Access to the [Configure Message Center](#) and [Configure Message Center Contact](#) pages.

Group Channels

Access to the [Group Channels](#) page.

Data Reports

Access to the [Data Reports](#), [Comparison Reports](#), [Deviation Reports](#), [Period Reports](#) and [Auto Phone Reports](#) pages. [Period Reports](#) also requires the **Event Reports Security Permission**.

Event Reports

Access to the [Event Reports](#) and [Period Reports](#) pages. [Period Reports](#) also requires the **Data Reports Security Permission**.

History Reports

Access to the [History Reports](#) page.

Channels

Access to the [Configure Channels](#) page.

Alarm Settings Template

Access to the [Configure Alarm Settings Template](#) page.

Alarm Time Matrix

Access to the [Configure Alarm Time Matrix](#) page.

Wireless

Access to the [Configure Wireless Sensor](#) and [Configure Wireless Gateway](#) pages.

Nodes

Access to the [Configure Nodes](#) page.

Serial Gateway

Access to the [Configure Serial Gateway](#) page.

Sensor

Access to the [Configure Sensor](#) page.

Campus

Access to the [Configure Campus](#) page.

Building

Access to the [Configure Building](#) page.

Floor

Access to the [Configure Floor](#) page.

Room

Access to the [Configure Room](#) page.

Product

Access to the [Configure Product](#) page.

Unit Type

Access to the [Configure Unit Type](#) page.

Eng. Unit

Access to the [Configure Engineering Unit](#) page.

Buttons

Edit	Places the form into Update mode for Updating the Level
New	Places the form into Insert mode for Adding a new Level
User Security Level	Displays a Printable Report Listing all Users and their assigned Security Level
Print	Displays a Printable Report for the selected Level
Print All	Displays a Printable Report for all of the Levels
Insert	<i>Insert Mode</i> - Validates the page and Adds the Level if there are no errors
Update	<i>Update Mode</i> - Validates the page and Updates the Level if there are no errors
Cancel	<i>Update / Insert Mode</i> - Cancels the Update or Insert and places the page in View mode

Configure Sensor

The **Sensor** used for the channel.

Sensor Name

Unique name for the **Sensor**.

Type:	Alphanumeric
Max Length:	32 Characters
Excluded:	Unassigned
Note:	This name can be any alphanumeric that you choose, i.e., Remote Humidity, Immersion Probe, Platinum RTD, etc. However, whatever system is used, each one must be unique.

Type

The **Type** of the sensor.

Type:	Alphanumeric
Max Length:	32 Characters
Note:	This name can be any alphanumeric that you choose, i.e., Temperature, Humidity, CO2, etc.

Range Low

The **Low** value of the sensor's range.

Type:	Numeric
Range:	-1000 to 1000
Format:	#####

Range High

The **High** value of the sensor's range.

Type:	Numeric
Range:	-1000 to 1000
Format:	#####

Model Number

The **Model Number** of the sensor.

Type:	Alphanumeric
Max Length:	32 Characters

Default Zero

The **Default Zero** value of the sensor. Used for calibrating the sensor.

Type:	Numeric
Range:	-1000 to 1000
Format:	#####

Default Scale

The **Default Scale** value of the sensor. Used for calibrating the sensor.

Type:	Numeric
Range:	-1000 to 1000
Format:	####

Default Offset

The **Default Offset** value of the sensor. Used for calibrating the sensor.

Type:	Numeric
Range:	-1000 to 1000
Format:	####

Buttons

Edit	Places the form into Update mode for Updating the Sensor
New	Places the form into Insert mode for Adding a new Sensor
Insert	<i>Insert Mode</i> - Validates the page and Adds the Sensor if there are no errors
Update	<i>Update Mode</i> - Validates the page and Updates the Sensor if there are no errors
Cancel	<i>Update / Insert Mode</i> - Cancels the Update or Insert and places the page in View mode

Configure Serial Gateway

Controls communications with the **Nodes**.

Com Port

System **Com Port** used for communication with the **Gateway**

Note: Normally set to "COM1". Changing this value can prevent communications with the **Nodes**.

Com Enabled

Serial Gateway Communication Enabled / Disabled. Changes to this setting require a restart of the main Datatron program.

Checked: Serial Gateway Communication Enabled
Cleared: Serial Gateway Communication Disabled

Buttons

Update Updates the Serial Gateway

Configure System Security

System security settings. Changes to these fields may not take effect until the session has been restarted.

Session Timeout

Number of minutes of inactivity before you are automatically logged out of the system.

Type: Numeric
Range: 5 to 120 minutes
Format: ###

Invalid Password Attempts

Number of invalid password tries before the account is locked out

Type: Numeric
Range: 1 to 10
Format: ##

Password Expiration Days

Number of days before the password expires

Type: Numeric
Range: 0 to 365
Format: ###
Note: Enter 0 (Zero) to disable

Password Grace Attempts

Number of available grace attempts to use an expired password before the account is locked out

Type: Numeric
Range: 1 to 10
Format: ##

Minimum Non-Alphanumeric Characters

Number of required non-alphanumeric or special characters contained in the password

Type: Numeric
Range: 0 to 5
Format: #

Minimum Password Length

Minimum length of the password

Type: Numeric
Range: 8 to 15
Format: ##

Minimum User Name Length

Minimum length of the User Name

Type:	Numeric
Range:	4 to 15
Format:	##

Buttons

Create User	Validates the page and Updates the System Security Settings if there are no errors
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Print	Displays a Printable Report for the System Security Settings
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Configure System Settings

The *Global System Settings* used for the *Datatron EXT*.

Company Name

The name of your *Company*.

Type: Alphanumeric
Max Length: 64 Characters
Note: This name can be any alphanumeric that you choose and will be displayed on all reports.

Message Center

The *Message Center* used to display *Alarm* messages for all *System Alarms*.

Note: The *Message Center* functionality for this channel will be disabled by setting the value to "*Unassigned*".

Configure: [Configure Message Center](#)

Message Center Contact

The *Message Center Contact* name displayed on the *Message Center* during *Alarm* messages for all *System Alarms*. Used as a quick point of reference for displaying the person responsible for the system during an *Alarm* state.

Note: The *Message Center Contact* may be left as "*Unassigned*" if you wish for no point of contact name to be displayed on the *Message Center*.

Configure: [Configure Message Center Contact](#)

Notification Schedule

24 x 7 *Notification Schedule* used to set which *Notification List* is used based on time of day and day of week.

Note: All *Notification* (Phone, Email and Text Message) functionality for all *System Alarms* will be disabled by setting the value to "*Unassigned*".

Configure: [Configure Notification Schedule](#)

Phone System Enabled

Enables / Disables the Phone System. Changes to this setting require a restart of the main Datatron program.

Checked: The Phone System is Enabled
Cleared: The Phone System is Disabled
Note: The Phone System will be automatically temporarily disabled if the Phone Device loses power or is disconnected from the Datatron Computer!

Reboot Notification Enabled

Reboot Notification Enabled checkbox used to enable or disable all of the *Notification* (Phone, Email and Text Message) functionality for all *Reboot Alarms* for the system.

Checked: Alarm Notification Enabled for the system

Cleared: Alarm Notification Disabled for the system

Watchdog Card Enabled

Watchdog Card Enabled checkbox used to enable or disable the **Watchdog** functionality for the system. The **Watchdog** will automatically reboot the system if the program or operating system "hangs" for more than 6 minutes. Click the Test Watchdog button to verify **Watchdog** functionality. Changes to this setting require a restart of the main Datatron program.

Checked: Watchdog Card Enabled for the system
Cleared: Watchdog Card Disabled for the system

SMTP Host

The **SMTP Host Address** of your company's Email server. Used for sending email messages.

Type: Alphanumeric
Max Length: 64 Characters
Example: mail.yourdomain.com

SMTP Port

The **SMTP Port** of your company's Email server. Used for sending email messages. The default SMTP Port is 25 if left blank.

Type: Numeric
Range: 1-9999
Default: 25

SMTP SSL

Use a secure **SSL** connection for sending mail. Certain SMTP servers require this. Used for sending email messages.

Checked: SSL Enabled
Cleared: SSL Disabled

Email Address

The **Email Address** to be used for sending email messages.

Type: Alphanumeric
Max Length: 64 Characters
Example: DatatronEXT@yourdomain.com

Email User Name

The **Email User Name** to be used for sending email messages when authentication is required.

Type: Alphanumeric
Max Length: 64 Characters
Example: MyUserName

Email Password

The **Email Password** to be used for sending email messages when authentication is required.

Type: Alphanumeric
Max Length: 64 Characters
Example: MyPassword

Phone Voice

The **Voice** to be used during Alarm Phone Calls. All of the available voices for your system are listed in the drop down list when in Update Mode.

Phone Rate

The **Rate** of the **Voice** to be used during Alarm Phone Calls.

Type: Numeric
Range: -10 to 10
Format: ##

Phone Pitch

The **Pitch** of the **Voice** to be used during Alarm Phone Calls.

Type: Numeric
Range: -10 to 10
Format: ##

Suspend Stop Calls Message

Prevents the Stop Calls instructional message from being played on the phone during alarm calls. This does not disable the Stop Calls functionality, only the message.

Checked: Stop Calls Message Disabled
Cleared: Stop Calls Message Enabled

Message Center Verbose

Sets the verbosity of the [Message Center](#). When enabled all of the Channel's Configuration Information will be displayed (Identifier, Department, Campus, Building, Floor and Room). When disabled, only the Channel's Identifier will be displayed.

Checked: [Message Center](#) displays all configured channel information
Cleared: [Message Center](#) displays only Channel Identifier

Backup Enabled

Enables or Disables the local Datatron EXT SQL Database backup. Only turn this off if the SQL Database is being backed up by your company's IT department.

Checked: The local SQL Database Backup is enabled
Cleared: The local SQL Database Backup is disabled

Buttons

Edit Places the form into Update mode for Updating the System Settings

Test Watchdog	Performs a verification test of the Watchdog Card. The Watchdog is set for 60 minutes by default. Pressing this button will initiate a system reboot after 10 minutes if the Watchdog Card is enabled and functioning properly.
Test Phone	Initiates a test phone call after entering a phone number and response code. The call will be placed next in line in the call queue
Test Email	Opens the Email Test page
Print	Displays a Printable Report for the System Settings
Update	<i>Update Mode</i> - Validates the page and Updates the System Settings if there are no errors
Cancel	<i>Update Mode</i> - Cancels the Update and places the page in View mode

Configure Unit Type

The type of unit to be monitored.

Unit Type Name

Unique name for the type of unit.

Type:	Alphanumeric
Max Length:	32 Characters
Excluded:	Unassigned
Note:	This name can be any alphanumeric that you choose, i.e., Refrigerator, Freezer, Incubator, etc. However, whatever system is used, each one must be unique.

Buttons

Edit	Places the form into Update mode for Updating the Unit Type
New	Places the form into Insert mode for Adding a new Unit Type
Insert	<i>Insert Mode</i> - Validates the page and Adds the Unit Type if there are no errors
Update	<i>Update Mode</i> - Validates the page and Updates the Unit Type if there are no errors
Cancel	<i>Update / Insert Mode</i> - Cancels the Update or Insert and places the page in View mode

Configure Users in Multiple Departments

The **Configure Users in Multiple Departments** page provides a method of assigning multiple Departments to specific Users. This feature is recommended for Super Users who are responsible for more than one Department. The Datatron Security system is setup so that Users only have access to the Channels and Settings that are in their Department unless they have security access to all of the Departments. Multiple Department Users can access the Channels and Settings in each of the assigned Departments without having the [All Departments](#) security privilege. Only Users with the [All Departments](#) and [Update User](#) security privilege can access this page.

Select the User account from the Select User List and assign the Departments they require access to. Don't forget to assign them the Department they are currently a member of. * See [Update User](#).

List Boxes

Available Department(s): All Departments configured in the system. *See [Configure Department](#)
Selected Departments(s): The Departments to assign to the User
Note: Make sure to include the User's current Department. * See [Update User](#).

Buttons

Add Adds one or more Departments from the Available Departments box to the Selected Departments box. To select multiple Departments use <ctrl> + click or <shift> + click on the Available Departments before Adding.
Remove Removes one or more Departments from the Selected Departments box. To select multiple Departments use <ctrl> + click or <shift> + click on the Selected Departments before Removing.
Add All Adds All Available Departments to the Selected Department box
Remove All Removes all Departments from the Selected Department box
Update User Validates the page and Adds the Departments to the User if there are no errors

Configure WiFi Sensor

Configuration settings for the WiFi Sensors

Mote ID

The Mote ID is used for communication with the Sensor and can only be set by R&D Scientific personnel.

Sensor Timeout

The **Sensor Timeout** value (**minutes**) of this sensor sets how long after communication has been lost with the Sensor before a [WiFi Sensor Alarm](#) is triggered.

Type: Numeric
Range: 2 to 240
Format: ##

Sensor Type

The Hardware Type of the Sensor. Can only be set by R&D Scientific personnel.
Options include:

CONT-1022	Two Port Dry Contact Switch Sensor
CURR-1022	Two Port 4-20mA Current Port Sensor
TEHU-1121	Two Port Temperature & Humidity Combo Sensor
TEMP-1122	Two Port RTD Temperature Sensor
TEMP-1124	Four Port RTD Temperature Sensor
VOLT-1022	Two Port 0-10 Volt Sensor

Sensor Active

Sensor Active checkbox used to enable or disable all of the data acquisition functionality for this Sensor.

Checked: Data Acquisition Enabled for this Sensor
Cleared: Data Acquisition Disabled for this Sensor

RSSI

Indicates the WiFi Sensor's Signal Strength.

Battery

Indicates the Battery's Voltage Level. A [WiFi Battery Alert](#) will sound indicating that the Battery should be replaced when the Level is at or below **2.75 Volts**.

Last Com Time

Indicates the last time the WiFi Sensor Transmitted Data.

Alarm Message

The **Alarm Message** text box allows you to append an additional custom Alarm Message to Phone, Email, and Text Message Alarm Notifications for this WiFi Sensor.

Type: Alphanumeric
Max Length: 256 Characters

Channel Mapping

The "Channel Mapping" section contains a "Select Channel" field and fields for each of the up to four (4) Sensor Ports. In general, the "Sensor Port" is assigned during initial installation and set up. The fields numbered "Port 1" through "Port 4" correspond to the Port Channels provided for a given sensor. Certain Sensors only have two (2) available Ports, in which case Port 3 and Port 4 will not be available for Channel Mapping.

Select Channel

Select a Channel to [Map](#) to the desired Sensor Port.

Select: [Click to Select 1 Channel](#)

Port 1

Click the **"Map"** button to Map the Selected Channel to Sensor Port 1.

Port 2

Click the **"Map"** button to Map the Selected Channel to Sensor Port 2.

Port 3

Click the **"Map"** button to Map the Selected Channel to Sensor Port 3.

Port 4

Click the **"Map"** button to Map the Selected Channel to Sensor Port 4.

Buttons

Previous	Selects the Previous WiFi Sensor by Mote ID
Edit	Places the form into Update mode for Updating the Sensor
New	Places the form into Insert mode for Adding a new Sensor
Print	Displays a Printable Report for the selected WiFi Sensor
Print All	Displays a Printable Report for all of the WiFi Sensors
Insert	<i>Insert Mode</i> - Validates the page and Adds the Sensor if there are no errors
Update	<i>Update Mode</i> - Validates the page and Updates the Sensor if there are no errors
Cancel	<i>Update / Insert Mode</i> - Cancels the Update or Insert and places the page in View mode
Map	<i>Update / Insert Mode</i> - Maps the Selected Channel in the Select Channel field to the corresponding Sensor Port. Select the Channel <i>"Unassigned"</i> to leave the Sensor Port unmapped to a channel.
Next	Selects the Next WiFi Sensor by Mote ID

Create User

Create a *User Account*

Security Level

The *Security Level* that this *User* belongs to.

Configure: [Configure Security Levels](#)

User Name

Unique *Login Name* for the *User*.

Type: Alphanumeric
Max Length: 32 Characters
Note: This name can be any alphanumeric that you choose, i.e., JoeSmith, Administrator, User123, etc. However, whatever system is used, each one must be unique. This field cannot be updated.

Email

User's Email Address

Type: Alphanumeric
Max Length: 64 Characters
Format: username@yoursite.com

Full Name

Unique *Full Name* for the *User*.

Type: Alphanumeric
Max Length: 32 Characters
Note: This name can be any alphanumeric that you choose, i.e., Joe Smith, Sally Jones, Bob Wells III, etc. However, whatever system is used, each one must be unique. This field cannot be updated and is used as part of the Datatron Audit Trail

Department

The *Department* that this channel belongs to.

Configure: [Configure Department](#)

User Code

User Response Code for the *Phone System*

Type: Alphanumeric
Length: Must be 4 Characters
Note: This code can be any 4 character alphanumeric that you choose, i.e., 1234, Cats, DM23, etc. This field is used as the required response code for Datatron Phone Calls.

Work Phone

User's Work Phone Number for the Phone System

Type: Numeric
Max Length: 18 Characters
Format: Numbers only except for commas (,) used as a wait state!
Note: If you need to dial a number to reach an outside line insert that number followed by two (2) commas (,) before the phone number, i.e., **9,,19732528700**

Cell Phone

User's Cell Phone Number for the Phone System

Type: Numeric
Max Length: 18 Characters
Format: Numbers only except for commas (,) used as a wait state!
Note: If you need to dial a number to reach an outside line insert that number followed by two (2) commas (,) before the phone number, i.e., **9,,19732528700**

Home Phone

User's Home Phone Number for the Phone System

Type: Numeric
Max Length: 18 Characters
Format: Numbers only except for commas (,) used as a wait state!
Note: If you need to dial a number to reach an outside line insert that number followed by two (2) commas (,) before the phone number, i.e., **9,,19732528700**

Text Message

User's Text Message Address

Type: Alphanumeric
Max Length: 64 Characters
Format: username@yoursite.com

Address 1

Address part 1

Type: Alphanumeric
Max Length: 64 Characters

Address 2

Address part 2

Type: Alphanumeric
Max Length: 64 Characters

City

City

Type: Alphanumeric
Max Length: 32 Characters

State

State

Type: Alphanumeric
Max Length: 32 Characters

Zip

Zip Code or Postal Code

Type: Alphanumeric
Max Length: 10 Characters

Password

Password

Type: Alphanumeric (*may require special character(s)*)
Note: Password length and strength requirements are set in the [Configure Security Settings](#) page

Confirm Password

Confirm Password

Type: Alphanumeric (*may require special character(s)*)
Note: Password and Confirm Password fields must be identical

Buttons

Create User Validates the page and Creates the User Account if there are no errors

Current Alarms

Real Time [Alarm](#) Interaction. This page allows the user to View, Comment and Finish Current Datatron Alarms.

Alarm Item

The Identifier or Name of the [Channel](#), [Node](#), Wireless Sensor or Wireless Gateway that is in an Alarm or Warning state. The Alarm Item also serves as a Hyperlink to the corresponding Configuration page for each Item or to the Help page for System [Reboot Alarms](#).

Alarm Type

The [Type of Alarm](#) that has been sounded for this [Alarm Item](#).

Alarm Time

Displays the date and time when the Alarm was Sounded.

Recover Time

Displays the date and time when the Alarm Recovered, if and when the Alarm Recovers. Alarm Recovery depends upon the Type of Alarm. Certain Alarms require that the value is within acceptable limits and that a Reset Time be met before Recovery can occur. Certain [Alarms](#) that cannot Recover on their own may be [Finished](#).

Commented

Displays whether or not the Alarm has been Commented. Certain [Alarms](#) require that a [Comment](#) be entered in order to Satisfy the Alarm condition.

Comment Check Box

Used to select the Alarm(s) for [Commenting](#).

Checked:	Selects the Alarm for Commenting
Cleared:	Removes the Alarm from the pending Comment list
Disabled:	The Alarm has already been Commented or this Type of Alarm does not require a Comment

Finish Check Box

Used to select the Alarm(s) for [Finishing](#).

Checked:	Selects the Alarm for Finishing
Cleared:	Removes the Alarm from the pending Finish list
Disabled:	The Alarm has already Recovered

Comment All

Selects all [Alarms](#) for Commenting.

Add Comment

Opens the Add Comment Dialog for entering a Comment for the selected [Alarm\(s\)](#). Comments for Alarms must be eight (8) or more characters.

Finish Alarm

Opens the Add Comment Dialog for entering a Comment for Finishing the selected [Alarm\(s\)](#). Once the Comment has been submitted the Alarm will be marked as Recovered. Comments for Finishing Alarms must be eight (8) or more characters.

Finish All

Selects all [Alarms](#) for Finishing.

Refresh

Refreshes the page with current Alarm information from the Main Datatron Program. The page does not refresh automatically and will need to be refreshed by the User periodically or after any changes are submitted.

Current Data

Real Time Channel Data Display. Click on the Column Title to sort the Data by that Field. The data will refresh automatically every 60 seconds.

Fields

Channel

The Channel Number assigned by R&D Scientific.

Identifier

The [Identifier](#) of the Channel. The Identifier also serves as a Hyperlink to the corresponding Channel Configuration page for the Channel.

Data

The Latest Data Reading for the Channel. Clicking on this field will open a printable 24 hour report and graph for this Channel. Hold mouse over this field to see a tool tip with more information on the Channel's status, if available.

White	Status OK
Red	Channel is currently in an alarm state
Yellow	Channel is currently in a warning state
Purple	Alarm has been commented
Gray	Alarming is disabled for this Channel
Teal	Alarming has been temporarily suspended

Serial# / ECN

The Serial Number or Equipment Control Number for the Channel.

Notes

The Notes for the Channel as found on the Channel Configuration page. Hold mouse over this field to see the Notes.

Department

The **Department** that this channel belongs to.

Configure: [Configure Department](#)

Campus

The **Campus** where this channel is located.

Configure: [Configure Campus](#)

Building

The **Building** where this channel is located.

Configure: [Configure Building](#)

Floor

The **Floor** where this channel is located.

Configure: [Configure Floor](#)

Room

The **Room** where this channel is located.

Configure: [Configure Room](#)

Product

The **Product** that this channel monitors.

Configure: [Configure Product](#)

Notification Schedule

The **Notification Schedule** that is assigned to this channel.

Configure: [Configure Product](#)

Node

The **Node** or **Wireless Sensor** that this channel is Mapped to.

Configure: [Configure Nodes](#) or [Configure WiFi Sensor](#)

Buttons

Print	Displays a Printable Report with the Current Data and Alarm Status of each Channel on the page.
Add / Remove Columns	Allows the User to configure which columns that they wish to be displayed on the page.
Show / Hide Inactive Channels	Toggles visibility for Inactive Channels (Channels that are not currently mapped to a Node or WiFi Sensor) on the Current Data Grid. Default is to hide these Channels from the Grids.

Note: Interval is only available when "**Actual Data**" is selected in the **Select Data By** field. When "**Fall DST Change**" is selected this will be a selectable year value from 2008 to present.

Start Date

Enter the Start Date for the Report Data

Format: mm/dd/yyyy
Enter: Enter the date manually or use the Start Date Calendar
Note: Year must be greater than or equal to 2008 and Start Date must be less than the End Date. This field is not available when "**Fall DST Change**" is selected in the **Select Data By** field.

End Date

Enter the End Date for the Report Data

Format: mm/dd/yyyy
Enter: Enter the date manually or use the End Date Calendar
Note: Year must be greater than or equal to 2008 and End Date must be greater than the Start Date. This field is not available when "**Fall DST Change**" is selected in the **Select Data By** field.

Start Time

Enter the Start Time for the Report Data

Format: hh:mm
Enter: Enter the time manually or use the Start Time List
Note: The time 23:59 will be processed as 23:59:59. All other times will be processed as having zero (0) seconds. This field is not available when "**Fall DST Change**" is selected in the **Select Data By** field.

End Time

Enter the End Time for the Report Data

Format: hh:mm
Enter: Enter the time manually or use the End Time List
Note: The time 23:59 will be processed as 23:59:59. All other times will be processed as having zero (0) seconds. This field is not available when "**Fall DST Change**" is selected in the **Select Data By** field.

Show Mean Kinetic Temperature

Mean Kinetic Temperature (MKT) checkbox used to enable or disable calculation and display of **MKT** on the Report.

Checked: **MKT** Enabled for this Report
Cleared: **MKT** Disabled for this Report

Select Report Format

Select the desired Format of the Report

Report Viewer	Opens the Report with the Report Viewer. The Report Viewer does not have any print capabilities, but Reports can be Exported to PDF or Excel format from here.
PDF	Generates the Report as a PDF document.
TIFF	Generates the Report as a TIFF document.
Excel	Generates the Report as a Microsoft Excel workbook.

Buttons

View	Initiates the Report processing and opens another window to display the Report.
Save	Opens the Save Report Dialog to save the Selected Report Parameters as a set of User Defined Report Parameters.
Load	Opens the Load Report Dialog to select a set of User Defined Report Parameters.

Enter the Duration Value (amount of time needed) for the Deviation

Type: Numeric
Range: 0 to 9999
Format: #####
Note: Set to 0 to bypass the Duration

Start Date

Enter the Start Date for the Report Data

Format: mm/dd/yyyy
Enter: Enter the date manually or use the Start Date Calendar
Note: Year must be greater than or equal to 2008 and Start Date must be less than the End Date

End Date

Enter the End Date for the Report Data

Format: mm/dd/yyyy
Enter: Enter the date manually or use the End Date Calendar
Note: Year must be greater than or equal to 2008 and End Date must be greater than the Start Date

Start Time

Enter the Start Time for the Report Data

Format: hh:mm
Enter: Enter the time manually or use the Start Time List
Note: The time 23:59 will be processed as 23:59:59. All other times will be processed as having zero (0) seconds.

End Time

Enter the End Time for the Report Data

Format: hh:mm
Enter: Enter the time manually or use the End Time List
Note: The time 23:59 will be processed as 23:59:59. All other times will be processed as having zero (0) seconds.

Email Period

Select the Email frequency for the Auto Report.

Options:

4 Hour
8 Hour
12 Hour
Daily
Weekly
Monthly

Auto Report

Deviation reports can be automatically sent via email to the [Email Address](#) associated with your user account. To have a report automatically sent, you must select **Yes** and **Save** the report. **Hourly Reports** are sent at 4, 8 and / or 12 am and pm. **Daily**

Reports are sent the next day, **Weekly Reports** (Monday - Sunday) are sent on Monday, and **Monthly Reports** are sent on the 1st of the next month. Report processing begins each morning between 6 and 7 AM for **Daily, Weekly** and **Monthly Reports**.

Options:

Yes
No

Buttons

View	Initiates the Report processing and opens another window to display the Report.
Save	Opens the Save Report Dialog to save the Selected Report Parameters as a set of User Defined Report Parameters.
Load	Opens the Load Report Dialog to select a set of User Defined Report Parameters.

Event Reports

Configurable Reports for Event Audit Trails.

Select Group

Select the Channels to be displayed in the [Select Channels](#) list. Options are All Channels available to the user or a custom, user defined [Group](#) of Channels

Note: This field is only available for the Channel Alarms, Channel Events and Calibration Report.

Select Channels

Select one or more Channels for the Report.

Select: <Ctrl> + Click: Select 1 at a time
<Shift> + Click: Select all in between

Note: This field is only available for the Channel Alarms, Channel Events and Calibration Report.

Select Data By

Select the type of Data for the Report.

Options:

- Channel Alarms
- System Alarms
- Channel Events
- System Events
- Security Events
- Calibration Report
- Notification Audit Trail
- Notification User Summary
- Automatic Report Emails
- Backup Report
- Restore Report

Start Date

Enter the Start Date for the Report Data

Format: mm/dd/yyyy
Enter: Enter the date manually or use the Start Date Calendar
Note: Year must be greater than or equal to 2008 and Start Date must be less than the End Date

End Date

Enter the End Date for the Report Data

Format: mm/dd/yyyy
Enter: Enter the date manually or use the End Date Calendar
Note: Year must be greater than or equal to 2008 and End Date must be greater than the Start Date

Start Time

Enter the Start Time for the Report Data

Format: hh:mm
Enter: Enter the time manually or use the Start Time List
Note: The time 23:59 will be processed as 23:59:59. All other times will be processed as having zero (0) seconds.

End Time

Enter the End Time for the Report Data

Format: hh:mm
Enter: Enter the time manually or use the End Time List
Note: The time 23:59 will be processed as 23:59:59. All other times will be processed as having zero (0) seconds.

Select Report Format

Select the desired Format of the Report

Report Viewer	Opens the Report with the Report Viewer. The Report Viewer does not have any print capabilities, but Reports can be Exported to PDF or Excel format from here.
PDF	Generates the Report as a PDF document.
TIFF	Generates the Report as a TIFF document.
Excel	Generates the Report as a Microsoft Excel workbook.

Buttons

View	Initiates the Report processing and opens another window to display the Report.
Save	Opens the Save Report Dialog to save the Selected Report Parameters as a set of User Defined Report Parameters.
Load	Opens the Load Report Dialog to select a set of User Defined Report Parameters.

Group Channels

Create custom channel groupings used for running reports

Available Channels

All **Channels** that are available to your user account

Selected Channels

Channels that have been added to this group

Group Name

Unique **Name** for the group

Type:	Alphanumeric
Max Length:	32 Characters
Note:	This name can be any alphanumeric that you choose, i.e., Refrigerators, Tests, Ruby's Channels, etc. However, whatever system is used, each one must be unique.

Buttons

Add	Adds one or more channels from the Available Channels box to the Selected Channels box. To select multiple channels use <ctrl> + click or <shift> + click on the Available Channels before Adding.
Remove	Removes one or more channels from the Selected Channels box. To select multiple channels use <ctrl> + click or <shift> + click on the Selected Channels before Removing.
Add All	Adds All Available Channels to the Selected Channel box
Remove All	Removes all Channels from the Selected Channel box
Add Group	Validates the page and Adds the Group if there are no errors

History Reports

Configurable Reports for Historical Configuration Audit Trails.

Select Group

Select the Channels to be displayed in the [Select Channels](#) list. Options are All Channels available to the user or a custom, user defined [Group](#) of Channels

Note: This field is only available for the Channel History Report.

Select Items

Select one or more Items for the Report.

Select: <Ctrl> + Click: Select 1 at a time
<Shift> + Click: Select all in between

Note: The type of Items available depends on the type of Report selected under the Select Data By list.

Select Data By

Select the type of Data for the Report.

Options:

- Channel History
- Channel Alarming History
- Alarm Time Matrix History
- Alarm Settings Template History
- Node History
- Notification Schedule History
- Notification List History
- WiFi Sensor History
- System Settings History
- IP Node History
- IP Node Battery Level History

Start Date

Enter the Start Date for the Report Data

Format: mm/dd/yyyy
Enter: Enter the date manually or use the Start Date Calendar
Note: Year must be greater than or equal to 2008 and Start Date must be less than the End Date

End Date

Enter the End Date for the Report Data

Format: mm/dd/yyyy
Enter: Enter the date manually or use the End Date Calendar
Note: Year must be greater than or equal to 2008 and End Date must be greater than the Start Date

Start Time

Enter the Start Time for the Report Data

Format: hh:mm
Enter: Enter the time manually or use the Start Time List
Note: The time 23:59 will be processed as 23:59:59. All other times will be processed as having zero (0) seconds.

End Time

Enter the End Time for the Report Data

Format: hh:mm
Enter: Enter the time manually or use the End Time List
Note: The time 23:59 will be processed as 23:59:59. All other times will be processed as having zero (0) seconds.

Select Report Format

Select the desired Format of the Report

Report Viewer	Opens the Report with the Report Viewer. The Report Viewer does not have any print capabilities, but Reports can be Exported to PDF or Excel format from here.
PDF	Generates the Report as a PDF document.
TIFF	Generates the Report as a TIFF document.
Excel	Generates the Report as a Microsoft Excel workbook.

Buttons

View	Initiates the Report processing and opens another window to display the Report.
Save	Opens the Save Report Dialog to save the Selected Report Parameters as a set of User Defined Report Parameters.
Load	Opens the Load Report Dialog to select a set of User Defined Report Parameters.

Web Browser Configuration

The Datatron EXT Website should work on any modern Web Browser. There are may be certain security settings that must be configured properly for the site to function as intended, depending upon the browser. Pop-up blockers need to be disabled in order for reports to function properly. Here are some examples for Internet Explorer:

Temporary Internet Files

1. Open Internet Explorer
2. On the Tools menu, click Internet Options. The Internet Options box should open to the General tab.
3. On the General tab, in the Temporary Internet Files section or in the Browsing History section depending on your version of IE, click the Settings button. This will open the Settings box.
4. In the Settings box, select Every visit to the page.
5. Click OK twice to close the menus.

Internet Security

1. Open Internet Explorer
2. On the Tools menu, click Internet Options. The Internet Options box should open to the General tab.
3. Select the Security tab then click the Custom Level button. This will open the Security Settings - Internet Zone box.
4. In the Settings box, disable "Use Pop-up Blocker" if this option is available.
5. Click OK twice to close the menus.

Load Report

Loads or Deletes a User Defined Report

Report Name

Select the Saved Report to Load or Delete

Buttons

Load	Loads the Report
Delete	Deletes the Report
Cancel	Closes the Load Report Dialog

Manual Backup

Performs a full database [Backup](#) of the Datatron databases.

Buttons

Start

Starts the backup process

Note:

Please allow the backup to proceed. A confirmation message will appear once the backup has completed.

Notification

The **Datatron Notification System** is designed to notify remote users of any [Alarm or Warning](#) events.

There are four (4) methods of Notifying Users in the **Datatron Notification System**.

Message Centers

The Message Center(s), or Scrolling Marquee Display(s), are used for local audio and visual display of Alarm and Warning events. Each Message Center can display all Alarm and Warning events or only a selected group of Alarm and Warning events. The Message Center will display valuable information about the event as well as a User configurable Contact Name and Number for each event.

Notification via the Message Center(s) need to be configured in the following sections:

[Configure Message Center:](#)

Configure the Message Center Communication Settings

[Configure Message Center Contact:](#)

User Configurable Contact Name and Number pairings to be displayed

[Configure Channels:](#)

Assign a Message Center and Message Center Contact to each Channel

[Configure System Settings:](#)

Assign a Message Center and Message Center Contact for System Alarms

Note:

Message Center(s) with an [Address](#) of 1 are considered "Broadcast" and will display **All** Alarm and Warning Events

Email

An Email Message can be sent to notify the User(s) of Alarm and Warning events.

Notification via Email needs to be configured in the following sections:

User's Email Address:

The User's Email Address can be configured on the [Create User](#) or [Update User](#) pages

[Notification List:](#)

Enable / Disable [Email](#) Notification for each User in the List

[Notification Schedule:](#)

The **Notification Schedule** provides a method of assigning a **Notification List** to be used based upon a 24 hour per day, 7 day per week grid

[Configure System Settings:](#)

Configure the [Email Address](#) of the Datatron System and the [SMTP](#) Host used for sending Email

Note:

The Email Notification does not allow a response from the User

Text Message

A Text Message can be sent to notify the User(s) of Alarm and Warning events. Text Messages are sent via Email. Please refer to your cell phone carrier for instructions on sending text messages to your cell phone via email.

Notification via Text Message needs to be configured in the following sections:

User's Text Message Address:

The User's Text Message Address can be configured on the [Create User](#) or [Update User](#) pages

[Notification List:](#)

Enable / Disable [Text Message](#) Notification for each User in the List

[Notification Schedule:](#)

The **Notification Schedule** provides a method of assigning a **Notification List** to be used based upon a 24 hour per day, 7 day per week grid

[Configure System Settings:](#)

Configure the [Email Address](#) of the Datatron System and the [SMTP](#) Host used for sending Text Messages via Email

Note:

The Text Message Notification does not allow a response from the User

Phone System

A Phone Call can be made to notify the User(s) of Alarm and Warning events. The Datatron Phone System is an Interactive System which allows the User(s) to respond to Alarm and Warning events.

The Phone System provides a method for:

- Contacting a user
- Verifying that an authorized individual has answered the phone
- Accepting a valid response to the call
- Identifying the responding User in the system's Audit Trail

Once the Call has been answered, an introduction message will be played instructing the User to enter their **User Code**. The User Code is a 4 digit alphanumeric code that can be configured on the [Create User](#) or [Update User](#) pages. The introduction message will be similar to the following:

"This is your Datatron calling. Please enter your user code followed by the pound key."

The User will then have three (3) attempts to enter their valid User Code. If the User does not enter their valid User Code within a reasonable amount of time or the User exceeds three (3) Invalid User Code entries, the Call will be disconnected and the Datatron will record that there was No Acknowledgement for the Call. The Notification System will then proceed to the next User on the Notification List.

If the User enters a valid User Code the Instruction Message will play:

"At any time press "Y" to acknowledge all alarms or press "N" to not acknowledge the alarms. Press "1" to repeat the alarms. Press "7" to acknowledge all alarms and to disable future calls for these alarms."

After the Instruction Message has played, the Alarm Message will play. Once the Alarm Message has begun playing, the Phone System will look for a Valid Response to the call:

- Negative Acknowledgement (NACK)
Press the "6" or "N" key on the Phone
- Acknowledgement (ACK)
Press the "9" or "Y" key on the Phone
- Acknowledgement plus Stop Calls
Press the "7" or "S" key on the Phone

If after a reasonable amount of time there has been no Valid Response from the User, the Call will be disconnected and the Datatron will record that there was No Acknowledgement for the Call. The Notification System will then proceed to the next User on the Notification List.

If the User enters a Valid Response the Call will be disconnected and the Datatron will record the Entered Response for the Call. The Alarm(s) for this call will be flagged as completed and no further Notification will be necessary for the Alarm(s) unless the following is true:

- The Notification Schedule is set to [Call All](#)
- A [Secondary Alarm](#) occurs

The Phone System needs to be configured in the following sections:

User's Phone Numbers:

The User's Phone Numbers can be configured on the [Create User](#) or [Update User](#) pages. Each User can have up to three (3) Phone Numbers, designated as **Work Phone**, **Cell Phone** and **Home Phone**

[Notification List](#):

Configure which Phone or Phones to call and in what order for each User on the list

[Notification Schedule](#):

The **Notification Schedule** provides a method of assigning a **Notification List** to be used based upon a 24 hour per day, 7 day per week grid

[Configure System Settings](#):

Enable or Disable the [Phone System](#). This only affects the Phone System and not Email or Text Message

Note:

The Phone System is automatically disabled if there is a problem with the Phone Device. Make sure that you test the Phone System periodically and correct any problems with the Phone Device before Enabling the [Phone System](#)

Buttons

View	Initiates the Report processing and opens another window to display the Report.
Save	Opens the Save Report Dialog to save the Selected Report Parameters as a set of User Defined Report Parameters.
Load	Opens the Load Report Dialog to select a set of User Defined Report Parameters.

Reset Password

Change the *User's* Password

New Password

New Password

Type: Alphanumeric (*may require special character(s)*)

Note: Password length and strength requirements are set in the [Configure Security Settings](#) page

Confirm New Password

Confirm New Password

Type: Alphanumeric (*may require special character(s)*)

Note: New Password and Confirm New Password fields must be identical

Buttons

Update Validates the page and Updates the Password if there are no errors

Cancel Cancels the Reset Password Form

Save Report

Saves a User Defined Report. Saved Reports are unique to each User.

Report Name

Select the Saved Report to Load or Delete

Type:	Alphanumeric
Max Length:	32 Characters
Note:	The Report Name must be unique for each different type of Report (i.e., Data Report, Event Report, History Report, etc.)

Buttons

Save	Saves the Report
Cancel	Closes the Save Report Dialog

Phone System Test

A user configurable Phone System Test.

Phone Number

The **Phone Number** to dial for the test.

Type: Numeric
Max Length: 15 Numbers
Note: Enter a comma (,) for a 3 second wait state if necessary

User Code

The **User Code** to respond to the test call.

Type: Alphanumeric
Max Length: 4 Characters
Note: The 4 Character User Code is always followed by the # key

Buttons

Submit Begin the Phone Test
Cancel Cancels the Test and closes the Phone System Test page

Email Test

A user configurable Email Test.

Email Address

The **Email Address** to send the test message.

Type:	Email address
Max Length:	60 characters

Buttons

Submit	Begin the Email Test
Cancel	Cancel the Test and closes the Email Test page

Trekker Reports

Configurable Reports for the Trekker USB Data Loggers

Note: The first time using this page you may be asked to enter a License Key that will be supplied to you by R&D Scientific Corporation

Trekker ID

Enter the Trekker ID for which you wish to view a Data Report

Start Date

Enter the Start Date for the Report Data

Format: mm/dd/yyyy
Enter: Enter the date manually or use the Start Date Calendar
Note: Year must be greater than or equal to 2008 and Start Date must be less than the End Date

End Date

Enter the End Date for the Report Data

Format: mm/dd/yyyy
Enter: Enter the date manually or use the End Date Calendar
Note: Year must be greater than or equal to 2008 and End Date must be greater than the Start Date

Temperature Scale

Select the desired Temperature Scale (Celsius or Fahrenheit)

Select Report Format

Select the desired Format of the Report

Report Viewer	Opens the Report with the Report Viewer. The Report Viewer does not have any print capabilities, but Reports can be Exported to PDF or Excel format from here.
PDF	Generates the Report as a PDF document.
TIFF	Generates the Report as a TIFF document.
Excel	Generates the Report as a Microsoft Excel workbook.

Buttons

Search	Retrieves a list of Available Trekker Data Reports for the entered Trekker ID and selected Start and End Dates.
View	Initiates the Report processing and opens another window to display the Selected Report.

Update User

Update a *User Account*

User Name

Unique *Login Name* for the *User*.

Type: Alphanumeric
Max Length: 32 Characters
Note: This name can be any alphanumeric that you choose, i.e., JoeSmith, Administrator, User123, etc. However, whatever system is used, each one must be unique. This field cannot be updated.

Security Level

The *Security Level* that this *User* belongs to.

Configure: [Configure Security Levels](#)

Department

The *Department* that this channel belongs to.

Configure: [Configure Department](#)

Work Phone

User's Work Phone Number for the *Phone System*

Type: Numeric
Max Length: 18 Characters
Format: Numbers only except for commas (,) used as a wait state!
Note: If you need to dial a number to reach an outside line insert that number followed by two (2) commas (,) before the phone number, i.e., **9,,19732528700**

Cell Phone

User's Cell Phone Number for the *Phone System*

Type: Numeric
Max Length: 18 Characters
Format: Numbers only except for commas (,) used as a wait state!
Note: If you need to dial a number to reach an outside line insert that number followed by two (2) commas (,) before the phone number, i.e., **9,,19732528700**

Home Phone

User's Home Phone Number for the *Phone System*

Type: Numeric
Max Length: 18 Characters
Format: Numbers only except for commas (,) used as a wait state!
Note: If you need to dial a number to reach an outside line insert that number followed by two (2) commas (,) before the phone number, i.e., **9,,19732528700**

User Code

User Response Code for the **Phone System**

Type: Alphanumeric
Length: Must be 4 Characters
Note: This code can be any 4 character alphanumeric that you choose, i.e., 1234, Cats, DM23, etc.
This field is used as the required response code for Datatron Phone Calls.

Address 1

Address part 1

Type: Alphanumeric
Max Length: 64 Characters

Address 2

Address part 2

Type: Alphanumeric
Max Length: 64 Characters

City

City

Type: Alphanumeric
Max Length: 32 Characters

State

State

Type: Alphanumeric
Max Length: 32 Characters

Zip

Zip Code or Postal Code

Type: Alphanumeric
Max Length: 10 Characters

Email

User's Email Address

Type: Alphanumeric
Max Length: 64 Characters

Format: username@yoursite.com

Text Message

User's Text Message Address

Type: Alphanumeric
Max Length: 64 Characters
Format: username@yoursite.com

Account Active

Enable / Disable the *User's Account*

Checked: Account Enabled for this User
Cleared: Account Disabled for this User

Reset Password

Opens the [Reset Password](#) dialog

Buttons

Previous	Select the Previous User Account
Print User List	Displays a Printable User List Report with the User's Name, Department, Account Status, and Last Login
Print User Notification Lists	Displays a Printable User Configuration Report for the selected User Account
Notification Lists	Displays a Printable Report listing all of the Notification Lists to which the selected User Account is assigned
Notification Summary	Displays a Printable Summary Report of the User's Phone Call Attempts and Acknowledgements
Reset Password	Opens the Reset Password dialog
Update User	Validates the page and Updates the User Account if there are no errors
Next	Select the Next User Account

Configure Building

The building where the channel resides.

Building Name

Unique name for the building.

Type:	Alphanumeric
Max Length:	32 Characters
Excluded:	Unassigned
Note:	This name can be any alphanumeric that you choose, i.e., 100, Main, West Wing, etc. However, whatever system is used, each one must be unique.

Buttons

Edit	Places the form into Update mode for Updating the Building
New	Places the form into Insert mode for Adding a new Building
Insert	<i>Insert Mode</i> - Validates the page and Adds the Building if there are no errors
Update	<i>Update Mode</i> - Validates the page and Updates the Building if there are no errors
Cancel	<i>Update / Insert Mode</i> - Cancels the Update or Insert and places the page in View mode

Configure Channels

Identification

The “**Identification**” section of this menu gives you the ability to configure the identity of the data point channels as you see fit. The eight (8) descriptors that R&D provides you are:

Identifier

Unique **Identifier** for the channel.

Type:	Alphanumeric
Max Length:	32 Characters
Excluded:	Unassigned
Note:	This identifier can be any alphanumeric that you choose, i.e., CH0001, Refrigerator-1, Incubator, etc. However, whatever system is used, each one must be unique.

Unit Type

Type of **Unit** (refrigerator, freezer, incubator, etc.) this channel monitors.

Configure: [Configure Unit Type](#)

Department

The **Department** that this channel belongs to.

Configure: [Configure Department](#)

Campus

The **Campus** where this channel is located.

Configure: [Configure Campus](#)

Building

The **Building** where this channel is located.

Configure: [Configure Building](#)

Floor

The **Floor** where this channel is located.

Configure: [Configure Floor](#)

Room

The **Room** where this channel is located.

Configure: [Configure Room](#)

Product

The **Product** that this channel monitors.

Configure: [Configure Product](#)

Sensor Configuration

The "**Sensor Configuration**" section of this menu gives you the ability to provide information about the type of sensor being used for the channel. The six (6) descriptors that R&D provides you are:

Sensor Type

Type of **Sensor** being used for the channel.

Configure: [Configure Sensor](#)

Eng. Unit

The **Engineering Unit** of measurement of the channel .

Configure: [Configure Engineering Unit](#)

Serial

Serial Number of the sensor being used for the channel. (Optional)

Type: Alphanumeric
Max Length: 32 Characters

Expected

The **Expected** normal value of the channel.

Type: Numeric
Range: -1000 to 1000
Format: #####.##

The "**Scale Factors**" section displays information received from the **calibration** of the channel. In general, the operator cannot change these values. They are updated by the system at the completion of each **calibration** of the channel. Thus, this information is **usually** only displayed for reference purposes.

NOTE: Changing the **Sensor Type** will reset these values to their factory defaults for that sensor and the channel will need to be calibrated!

Zero

The **Zero** value of the sensor. Used for calibrating the sensor.

Type: Numeric
Range: -1000 to 1000
Format: #####.##

Scale

The **Scale** value of the sensor. Used for calibrating the sensor.

Type: Numeric
Range: -1000 to 1000
Format: #####.##

Offset

The **Offset** value of the sensor. Used for calibrating the sensor.

Type: Numeric
Range: -1000 to 1000
Format: #####.##

Alarm Settings

The "**Alarm Settings**" section provides the user with access to and control over several aspects of the alarms associated with a channel.

Alarm Template

Alarm Template used to configure the alarm settings for this channel.

Note: Selecting an **Alarm Template** will set all of the alarm settings to the new values contained in the **Alarm Template** except for **Difference Channel** and **Difference Value** which must be set per channel. All of the other alarm settings except for **Alarm Enabled** and **Alarm Time Enabled** will be marked as read only and can not be changed while an **Alarm Template** is set. To make a change to an alarm setting, the **Alarm Template** must be set to "**Unassigned**". This will clear the read only status of the alarm settings.

Configure: [Configure Alarm Settings Template](#)

Alarm Enabled

Alarm Enabled checkbox used to enable or disable all of the alarming functionality for this channel.

Checked: Alarming Enabled for this channel
Cleared: Alarming Disabled for this channel

Alarm Time Matrix

24 x 7 **Alarm Time Matrix** used to enable or disable alarming based on time of day and day of week.

Note: The **Alarm Time Matrix** can be enabled or disabled by checking or clearing the **Alarm Time Enabled** checkbox.

Configure: [Configure Alarm Time Matrix](#)

Alarm Time Enabled

Alarm Time Enabled checkbox used to enable or disable all of the **Alarm Time Matrix** functionality for this channel.

Checked: Alarm Time Matrix Enabled for this channel
Cleared: Alarm Time Matrix Disabled for this channel

Difference Channel

Difference Channel used to trigger an alarm based upon a difference in value between this channel and the selected **Difference Channel**.

Note: Set to "**Unassigned**" to disable the **Difference Alarm** functionality of this channel.

Difference Value

The absolute value of the difference between this channel and the selected **Difference Channel** that must be exceeded to trigger a **Difference Alarm** for this channel.

Note: Set to 0 (Zero) to disable the **Difference Alarm** functionality of this channel.

Type: Numeric
Range: 0 to 100
Format: ###.#

Suspend Alarm

Temporarily suspends alarms and warnings for this channel until the entered date and time.

Date: MM/DD/YY or use the Calendar Popup. Clear this field to disable the **Suspend Alarm** feature.
Time: HH:mm (24 hour clock) or use the Time Picker Popup. Clear this field to disable the **Suspend Alarm** feature.
Notes: Entered Date and Time must be later than the current Date and Time.

Low Alarm Set Point

The **Low Alarm Set Point** of this channel.

Note: Functions in conjunction with the **Low Alarm Delay** time of this channel.

Type: Numeric
Range: -1000 to 1000
Format: #####.##

Low Alarm Delay

The **Low Alarm Delay** time (**minutes**) of this channel sets how long the value of the channel must be equal to or less than the **Low Alarm Set Point** of this channel in order for a **Low Alarm** to be triggered.

Type: Numeric
Range: 0 to 1440
Format: #####.#

Low Alarm Reset

The **Low Alarm Reset** time (**minutes**) of this channel sets how long the value of the channel must be greater than the **Low Alarm Set Point** of this channel in order for a **Low Alarm** to recover.

Type: Numeric
Range: 0 to 1440

Format: #####.#

Low Warn Set Point

The **Low Warn Set Point** of this channel.

Note: Functions in conjunction with the **Low Warn Delay** time of this channel.

Type: Numeric
Range: -1000 to 1000
Format: #####.##

Low Warn Delay

The **Low Warn Delay** time (**minutes**) of this channel sets how long the value of the channel must be equal to or less than the **Low Warn Set Point** of this channel in order for a **Low Warning** to be triggered.

Type: Numeric
Range: 0 to 1440
Format: #####.#

Low Warn Reset

The **Low Warn Reset** time (**minutes**) of this channel sets how long the value of the channel must be greater than the **Low Warn Set Point** of this channel in order for a **Low Warning** to recover.

Type: Numeric
Range: 0 to 1440
Format: #####.#

Low Force Alarm Set Point

The **Low Force Alarm Set Point** of this channel. If this set point is reached then the **Low Alarm Delay** time of this channel will be bypassed and a **Low Force Alarm** will be immediately triggered.

Type: Numeric
Range: -1000 to 1000
Format: #####.##

Low Rewarn Value

The **Low Rewarn Value** of this channel sets how much further below the **Low Alarm Set Point** of this channel the value must reach in order for a **Low Rewarn** to be triggered. Used to prevent runaway conditions.

Type: Numeric
Range: 0 to 100
Format: ###.#
Note: Enter Zero (0) to Disable

Low Alarm Echo Time

The **Low Alarm Echo** time (**minutes**) of this channel sets how long the value of the channel must be equal to or less than the **Low Alarm Set Point** of this channel *after* a **Low Alarm** has sounded in order for a **Low Alarm Echo** to be triggered. Used as a reminder that the channel is still in a **Low Alarm** state.

Type: Numeric
Range: 0 to 1440
Format: #####
Note: Enter Zero (0) to Disable

High Alarm Set Point

The **High Alarm Set Point** of this channel.

Note: Functions in conjunction with the **High Alarm Delay** time of this channel.

Type: Numeric
Range: -1000 to 1000
Format: #####.##

High Alarm Delay

The **High Alarm Delay** time (**minutes**) of this channel sets how long the value of the channel must be equal to or greater than the **High Alarm Set Point** of this channel in order for a **High Alarm** to be triggered.

Type: Numeric
Range: 0 to 1440
Format: #####.#

High Alarm Reset

The **High Alarm Reset** time (**minutes**) of this channel sets how long the value of the channel must be less than the **High Alarm Set Point** of this channel in order for a **High Alarm** to recover.

Type: Numeric
Range: 0 to 1440
Format: #####.#

High Warn Set Point

The **High Warn Set Point** of this channel.

Note: Functions in conjunction with the **High Warn Delay** time of this channel.

Type: Numeric
Range: -1000 to 1000
Format: #####.##

High Warn Delay

The **High Warn Delay** time (**minutes**) of this channel sets how long the value of the channel must be equal to or greater than the **High Warn Set Point** of this channel in order for a **High Warning** to be triggered.

Type: Numeric
Range: 0 to 1440
Format: #####.#

High Warn Reset

The **High Warn Reset** time (**minutes**) of this channel sets how long the value of the channel must be less than the **High Warn Set Point** of this channel in order for a **High Warning** to recover.

Type: Numeric
Range: 0 to 1440
Format: #####.#

High Force Alarm Set Point

The **High Force Alarm Set Point** of this channel. If this set point is reached then the **High Alarm Delay** time of this channel will be bypassed and a **High Force Alarm** will be immediately triggered.

Type: Numeric
Range: -1000 to 1000
Format: #####.##

High Rewarn Value

The **High Rewarn Value** of this channel sets how much further above the **High Alarm Set Point** of this channel the value must reach in order for a **High Rewarn** to be triggered. Used to prevent runaway conditions.

Type: Numeric
Range: 0 to 100
Format: ###.#
Note: Enter Zero (0) to Disable

High Alarm Echo Time

The **High Alarm Echo** time (**minutes**) of this channel sets how long the value of the channel must be equal to or greater than the **High Alarm Set Point** of this channel *after* a **High Alarm** has sounded in order for a **High Alarm Echo** to be triggered. Used as a reminder that the channel is still in a **High Alarm** state.

Type: Numeric
Range: 0 to 1440
Format: #####
Note: Enter Zero (0) to Disable

Alarm Message

The **Alarm Message** text box allows you to append an additional custom Alarm Message to Phone, Email, and Text Message Alarm Notifications for this Channel.

Type: Alphanumeric
Max Length: 256 Characters

Notification Settings

The "**Notification Settings**" section of this menu gives you the ability to configure the **Notification** parameters of the data point channels as you see fit. The five (5) parameters that R&D provides you are:

Notification Schedule

24 x 7 **Notification Schedule** used to set which **Notification List** is used based on time of day and day of week.

Note: All **Notification** (Phone, Email and Text Message) functionality for this channel will be disabled by setting the value to "**Unassigned**".

Configure: [Configure Notification Schedule](#)

Alarm Notification

Alarm Notification checkbox used to enable or disable all of the **Notification** (Phone, Email and Text Message) functionality for **Alarms** for this channel.

Checked: Alarm Notification Enabled for this channel
Cleared: Alarm Notification Disabled for this channel

Warn Notification

Warn Notification checkbox used to enable or disable all of the **Notification** (Phone, Email and Text Message) functionality for **Warnings** for this channel.

Checked: Warn Notification Enabled for this channel
Cleared: Warn Notification Disabled for this channel

Message Center

The **Message Center** used to display **Alarm** and **Warning** messages for this channel.

Note: The **Message Center** functionality for this channel will be disabled by setting the value to "**Unassigned**".

Configure: [Configure Message Center](#)

Message Center Contact

The **Message Center Contact** name displayed on the **Message Center** during **Alarm** and **Warning** messages for this channel. Used as a quick point of reference for displaying the person responsible for the channel during an **Alarm** or **Warning** state.

Note: The **Message Center Contact** may be left as "**Unassigned**" if you wish for no point of contact name to be displayed on the **Message Center**.

Configure: [Configure Message Center Contact](#)

Notes

The "**Notes**" section of this menu gives you the ability to add custom **Notes** regarding the channels as you see fit. Additionally, when the channel is not in **Add** or **Update** mode, the latest **Calibration** information will be displayed in the **Notes** box.

Notes

The **Notes** text box allows you to add a custom message regarding this channel.

Type: Alphanumeric
Max Length: 1,024 Characters

Buttons

Previous Select the Previous Channel

Edit	Places the form into Update mode for Updating the Channel
New	Places the form into Insert mode for Adding a new Channel
Print	Displays a Printable Report for the selected Channel
Print All	Displays a Printable Report for all of the Channels
Test Alarm	Generates a Test Alarm for testing the Notification settings of the selected Channel
Insert	<i>Insert Mode</i> - Validates the page and Adds the Channel if there are no errors
Update	<i>Update Mode</i> - Validates the page and Updates the Channel if there are no errors
Cancel	<i>Update / Insert Mode</i> - Cancels the Update or Insert and places the page in View mode
Next	Select the Next Channel

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