BBConn Cloud Help

Using BBconn Cloud

BBconn Cloud is a web application designed to enhance the functionality of the ProBlue Flex control system. The application runs in a browser on any desktop computer or handheld device.

Use any of the following browsers to access the application:

- Chrome™
- Edge™
- Safari™
- Firefox™
- UC browser

Refer to the **ProBlue Flex Core Customer Product Manual (P/N 1128350)** for a high-level overview of BBconn Cloud.

BBconn Cloud includes the PLC mapping functionality needed for ProBlue Flex melters with the OEM control panel. Before beginning the PLC integration process, create your BBconn Cloud account and register your melter.

Getting Help

If at any time you need help using BBconn Cloud, select the **Get In Touch** link to submit a request to the BBconn Cloud Administrator**.**

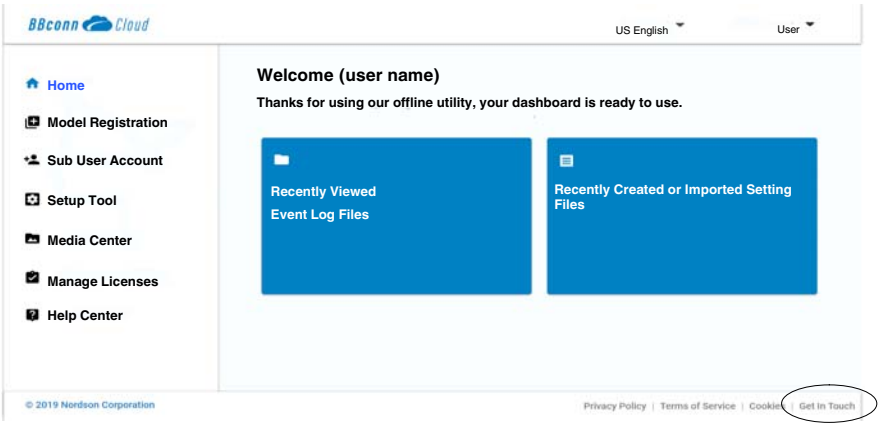


Figure 1 Location of the Get In Touch link on the BBconn Cloud Home screen

Creating a BBconn Cloud Account

Follow this procedure to create your BBconn Cloud account.

NOTES:

- When you create your account, you will also register a melter for the account.
- A BBconn Cloud account can include multiple sub users.

1. Obtain the Serial Number and Unique Number (UID) of your melter. This information is located on the melter identification plate, shown in Figure 2.

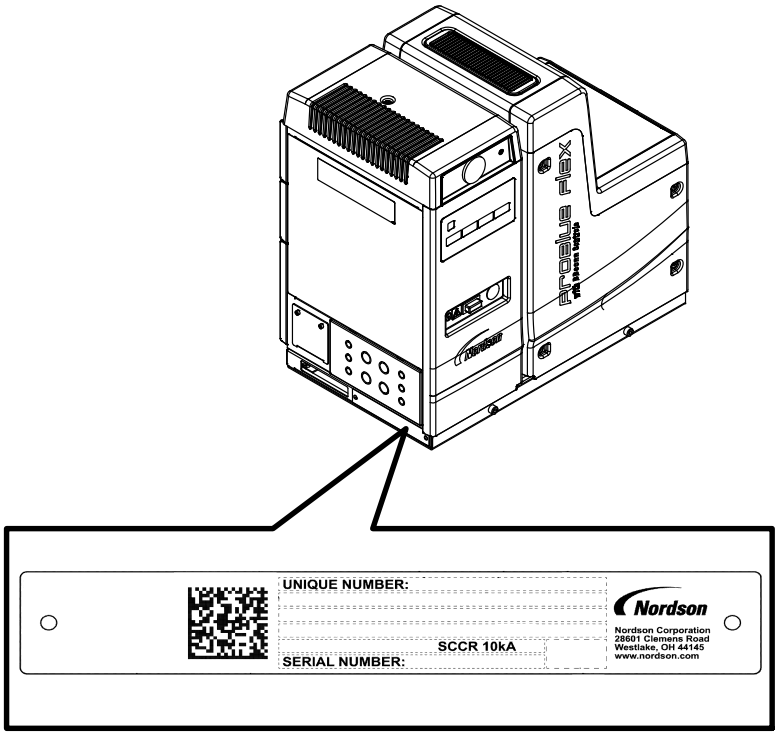


Figure 2 Location of the melter identification plate

2. Go to **https://bbconncloud.nordson.com**.
3. Select **Sign Up**. The Contact Information window opens.

Creating a BBconn Cloud Account *(contd)*

4. Enter the required information in the fields with an asterisk (*). These fields are:
   - Full Name* (maximum of 60 characters)
   - Company Name*
   - Company Type* (select OEM, End User, or Nordson from the drop-down menu)
   - Address*
   - Country* (select from the drop-down menu)
   - Plant (optional)
   - Contact*

     NOTE: The Contact field is for a valid telephone number, including the country code: Enter numbers only—no hyphens.
5. Select **Continue**. The Model Details window opens.
6. See Figure 3. Enter the following required information for your melter:
   - Model (select from the drop-down menu)
   - Serial Number
   - UID (Unique Number)

     NOTES:

     - The Configuration Code field auto-populates after a valid Serial Number and UID are entered.
     - The Description field is not required, but Nordson recommends entering a user-specific description for your melter.

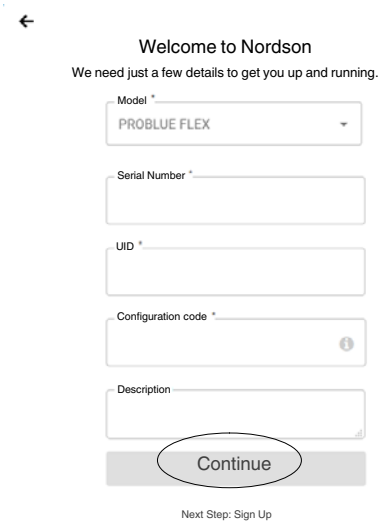


Figure 3 Model Details window

7. Select **Continue**. The user name and password screen opens.
8. Enter your Email Address. This will also be your user name.
9. Enter a password and confirm your password.

   NOTE: Passwords must be a minimum of 8 characters and can be a maximum of 64 characters.

10. Select **Accept and Sign Up**. The system will send you an email with a confirmation link.
11. When you receive the confirmation email, select the link inside the email.
12. Select **Log On to the System** and log on using your registered email and password.

    Your account is created, your melter is registered, and the BBconn Cloud Home screen opens. From this screen you can access the full functionality of BBconn Cloud.

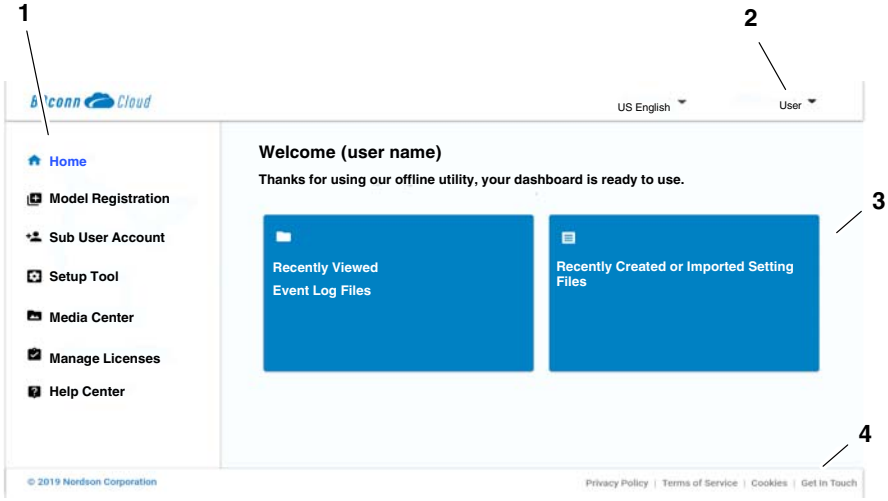


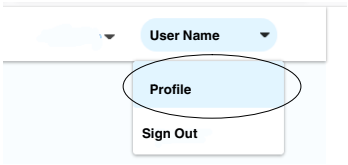
Figure 4 BBconn Cloud Home screen

1. Navigation menu
2. Profile and sign out drop-down menu
3. Dashboard: Quick access to recently used files
4. Get In Touch: Select this link to ask for help

Editing Your Profile

Your Profile includes your contact information.

NOTE: You cannot change your email through BBconn Cloud. To change your email, select the **Get In Touch** link to submit a request to the BBconn Cloud Administrator (see Figure 1 for the location of the link).



1. Select your user name in the top right corner and select **Profile**.

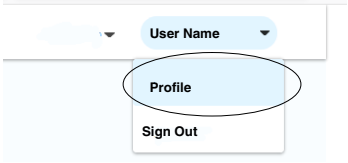
   NOTE: To exit the Profile screen at this point, press **Escape.**

2. Select **Edit Profile** and enter any changes you want to make. This screen include the following fields:
   - Full name
   - Company name
   - Address
   - Phone
   - Plant name
   - Company type (OEM, End user, or Nordson)

3. Select **Save**, or select **Cancel** to exit the screen without saving.

Changing Your Password

Password change is accomplished through the Profile screen.



1. Select your user name in the top right corner and select **Profile**.
2. Select **Change Password**.
3. Enter your current password.
4. Enter a new password twice.

   NOTE: Passwords must be a minimum of 8 characters and can be a maximum of 64 characters.

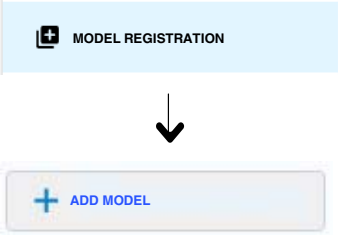
5. Select **Change Password**.

   NOTE: To exit the screen without changing the password, select the back button for your browser.

Registering or Editing Melter Models

All your ProBlue Flex melters can be added to your BBconn Cloud account. For each melter added to BBconn Cloud, you can view and manage all the data (.NOR files) associated with the melter.

Registering a Melter on BBconn Cloud

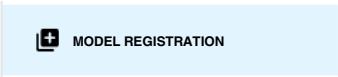


1. Select **Model Registration**. The Model Registration screen opens, showing all registered melters.
2. Select **Add Model**. The Add Model window opens.
3. Enter the following required information for your melter:
   - Model (select from drop-down menu)
   - Serial Number
   - UID (Unique Number)

NOTES:

- The Serial Number and UID are located on the melter identification plate (see Figure 2).
- The Configuration Code / Name field auto-populates after a valid Serial Number and UID are entered.
- The Description field is not required, but Nordson recommends entering a user-specific description for your melter.
- To close the window without adding equipment, select **Cancel**.

Editing a Registered Melter



1. Select **Model Registration**. The Model Registration screen opens, showing all registered equipment.

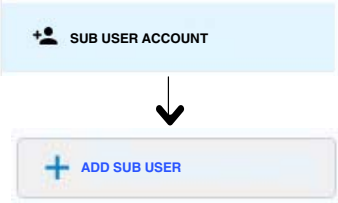
1. Select the **edit icon** ✎ next to the registered equipment to edit. The Edit Equipment Details screen opens.
2. Make the needed changes. This screen includes the following fields:
   - Model Name (select from the drop-down menu)
   - Serial Number
   - UID (Unique Number)
   - Configuration Code / Name (read only)
   - Description
3. Select **Save** to save the changes, or select **Cancel** to exit the screen without saving.

Managing Sub Users

You can add an unlimited number of sub users to your BBconn Cloud account. Sub users can have either read only access, or full read/write access.

NOTE: You cannot remove a sub user, but you can change a sub user's email address to prevent a sub user from accessing the account.

Adding a Sub User



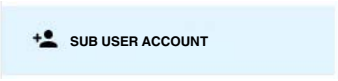
1. Select **Sub User Account**. The Manage Sub User Account screen opens, showing all existing sub users.
2. Select **Add Sub User**. The Add Sub User window opens. To exit without adding a sub user, select **Cancel**.
3. Enter the following information about the sub user:
   - Full name
   - Email
   - Access (Read/Write or Read Only)

   NOTE: Sub users with Read/Write access have the same level of access as the account owner. Sub users with read-only access can view any screen and download files but cannot make any changes.
4. Select **Add** to save, or select **Cancel** to exit without saving.

   When a sub user is added, the system sends a confirmation email to the sub user. To complete the process, the sub user must select the link in the email to confirm the registration and set up a password.

Editing Sub User Details

NOTE: Account owners can edit any sub user detail. Sub users can edit only their name and access details.



1. Select **Sub User Account**. The Manage Sub User Account screen opens, showing all existing sub users.
2. Select the **edit icon** ✎ next to the sub user details to edit. The Edit Sub-User Details screen opens.
3. Edit any of the following information about the sub user:
   - Full name
   - Email (can be edited only by the account owner)
   - Access (Read/Write or Read Only)
4. Select **Save** to save the changes, or select **Cancel** to exit the screen without saving.

About BBconn Cloud and .NOR Files

When you insert a USB drive into the USB port on a ProBlue Flex melter, the melter automatically creates a \BACKUP directory on the USB drive and adds a .NOR file to the \BACKUP directory.

You can use .NOR files to restore a melter's settings or to change a melter's settings. There are multiple ways to add, open, or edit a .NOR file on BBconn Cloud. You can also download a .NOR file from BBconn Cloud to a USB drive.

Table 1 .NOR File Management Options

Option	Refer To
Upload and open a .NOR file obtained from the melter via USB backup	*Uploading and Opening a .NOR File on BBconn Cloud*
Use BBconn Cloud to create a new .NOR file	*Creating a New .NOR File on BBconn Cloud*
Open the most recently used .NOR file on BBconn Cloud	*Opening the Last Edited .NOR File on BBconn Cloud*
Create a new .NOR file using an existing .NOR file previously uploaded to BBconn Cloud	*Creating a New .NOR File from an Existing File on BBconn Cloud*
Download a .NOR file from BBconn Cloud to a computer or USB drive	*Downloading a .NOR File from BBconn Cloud*

How .NOR Files are Named

.NOR files are automatically named by the melter and by BBconn Cloud using the structure shown in the table below.

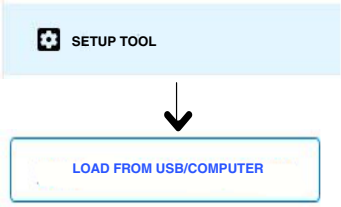
NOTE: The first time you save changes to a .NOR file on BBconn Cloud, the system automatically renames the new .NOR file.

File Naming Structure of a .NOR File Backed Up from Melter	File Naming Structure of a .NOR File Saved on BBconn Cloud
PROBLUEFLEX_2019-09-19_1356.nor Where **2019-09-19** is the date and **1519** is the time (not including seconds)	PROBLUEFLEX_2019-09-29_220813.nor Where **2019-09-29** is the date and **220813** is the time (including seconds)

Uploading and Opening a .NOR File on BBconn Cloud

Follow this procedure to upload a .NOR file obtained from the melter and to view it in BBconn Cloud.

1. Obtain a melter .NOR file by backing up the melter to a USB drive using either of the following methods:
   - To download a .NOR file from a ProBlue Flex melter with an OLED control panel, refer to the **ProBlue Flex OLED User Interface Customer Product Manual (P/N 1128351)**.
   - To download a .NOR file from a ProBlue Flex melter with an OEM interface, refer to *Backing Up Melter Settings* under *Advanced Operation* later in this manual.
2. Insert the USB drive into your computer.
3. If you have not already done so, log in to BBconn Cloud.
4. Select **Setup Tool** | **Load from USB/Computer**.



5. Navigate to the .NOR file and open it.
6. When the **Load from USB Nor file Description** window opens, enter a **Description** (optional) for the .NOR file and then select **Submit**.

   The system uploads the .NOR file and opens the Temperature Zones screen.

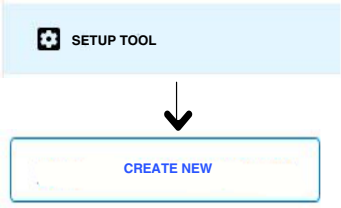
   From this screen, you can make changes to your temperature zone settings, save the file, and download the updated file. You can also navigate to the System Settings to make any additional changes. Refer to *Setup Tool Screens* later in this section for a description of all the System Settings screens.

   NOTE: When a .NOR file is uploaded, BBconn Cloud automatically adds the .NOR file to its associated, registered melter. If you upload a .NOR file that is not from a melter already registered in your account, BBconn Cloud adds the melter to the Model Registration list.

Creating a New .NOR File on BBconn Cloud

You can create a brand new .NOR file on BBconn Cloud.

1. Select **Setup Tool** | **Create New**. The Temperature Zones screen opens.

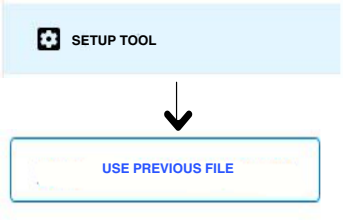


   NOTE: The new file contains all the factory default settings and can be used to restore the factory settings to a melter.

2. Enter the desired runtime and system settings for the new .NOR file and select **Save** on each screen as you make changes.

   NOTE: The first time you save changes to a .NOR file on BBconn Cloud, the system automatically renames the new .NOR file.

Opening the Last Edited .NOR File on BBconn Cloud

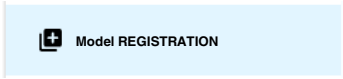


Quickly open the last edited .NOR file on BBconn Cloud by selecting **Setup Tool** | **Use Previous File**.

Enter the desired runtime and system settings for the .NOR file and select **Save** on each screen as you make changes.

Creating a New .NOR File from an Existing File on BBconn Cloud

You can open an existing .NOR file on BBconn Cloud as a new file, make changes to the file, and save it for download.



1. Select **Model Registration**.
2. Select the **down arrow** ▼ to expand the .NOR file drop-down list.
3. Select **Edit as New File**. The Temperature Zones screen opens.

   From this screen, you can make changes to the temperature zone settings, save, and download the updated file. You can also navigate to System Settings to make any additional changes. Refer to *Setup Tool Screens* for details about all System Settings screens.

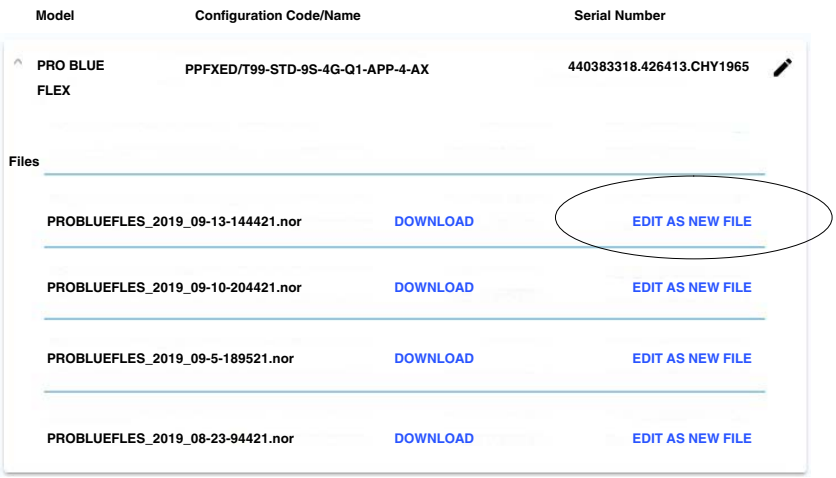


Figure 5 Creating a new .NOR file from an existing file

4. As you make changes, select **Save**.

   Upon the first Save, the system saves your changes as a new .NOR file under the melter configuration from which you selected the .NOR file to edit.

Editing an Existing .NOR File on BBconn Cloud

You can edit the most recently opened file .NOR on BBconn Cloud, but you cannot edit any other .NOR file present on BBconn Cloud.

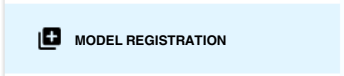
To edit the most recently opened .NOR file, select **Setup Tool** | **Use Previous File**.

Downloading a .NOR File from BBconn Cloud

For each melter added to BBconn Cloud, you can download a .NOR file to change or restore settings for a melter. There are two ways to download a .NOR file:

- On the Model Registration screen
- On any Runtime Settings or System Settings screen

To download a .NOR file from the Model Registration screen



1. Insert the USB drive into your computer.
2. Select **Model Registration**. The Model Registration screen opens, showing all registered equipment.
3. Select the **down arrow** ➤ to expand the .NOR file drop-down list.
4. Select **Download**.
5. When the Save File window opens, navigate to the desired file location or to the USB drive to save the file.

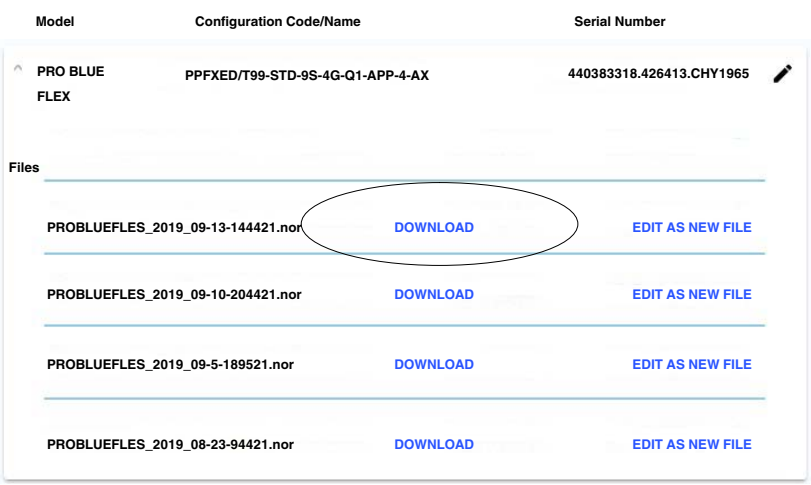


Figure 6 Downloading a .NOR file from BBconn Cloud

Downloading a .NOR File from BBconn Cloud *(contd)*

To download a .NOR file from any Runtime or System Settings screen

See Figure 7.

1. Insert the USB drive into your computer.
2. Select **Download NOR File** at the bottom left of the screen.
3. When the Save File window opens, navigate to the desired file location or to the USB drive to save the file.

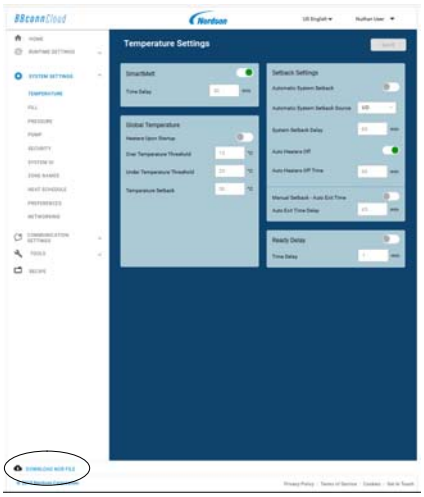
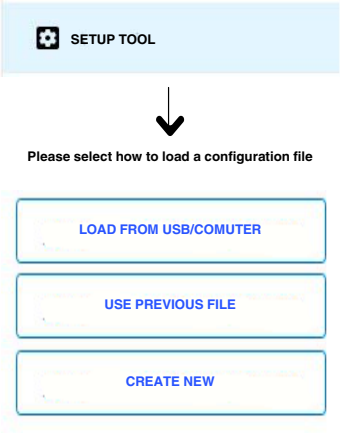


Figure 7 Downloading a .NOR file from a System Settings screen (Temperature Settings screen shown)

About the Setup Tool Menu



The Setup Tool menu contains all the user-editable runtime settings and system settings for the melter:

- Runtime settings are unique to a recipe, and recipes are unique to a product. Currently, the runtime settings editable through BBconn Cloud are temperature settings, zone enabled/disabled status, and, if applicable, pressure limits.
- System settings are set once and apply to the entire melter system, and thus are the same for all recipes.

The availability of the runtime and system settings depends on the melter configuration. For example, if the melter has the optional electronic pressure regulators, then the runtime settings menu allows you to enter pressure limits.

Setup Tool Screens

This section provides details about each Setup Tool screen, including the following:

- Associated tasks
- Parameter name
- Parameter description
- Factory default values and range of values

BBconn Cloud is designed for ease of use. If you have questions about performing any tasks associated with the Setup Tool screens, select the **Get In Touch** link to submit a request to the BBconn Cloud Administrator.

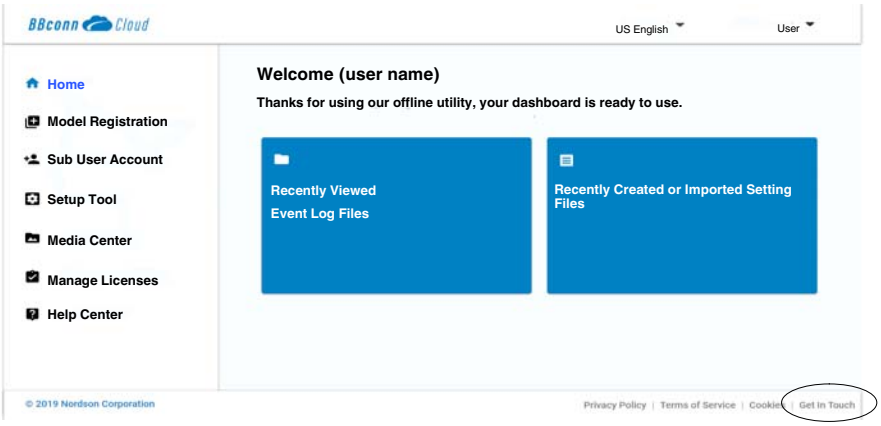
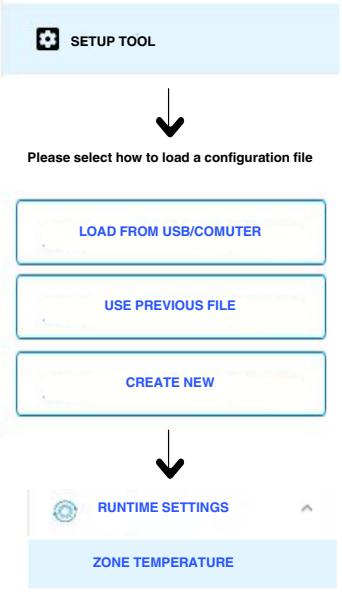


Figure 8 Location of the Get In Touch link on the BBconn Cloud Home screen



Runtime Settings: Temperature Zones Screen

This screen is used for the following tasks:

- Entering a global temperature set point
- Entering heated zone temperature set points
- Enabling or disabling heated zones

NOTES:

- Runtime settings can also be saved as recipes. Refer to *Managing Recipes* later in this manual for details.
- If you have a Melt-on-Demand system, the tank heated zone is a grid.
- Although there are two internal zones (tank and manifold), changing one internal zone automatically changes the other. You cannot enter two different internal zone set point temperatures.

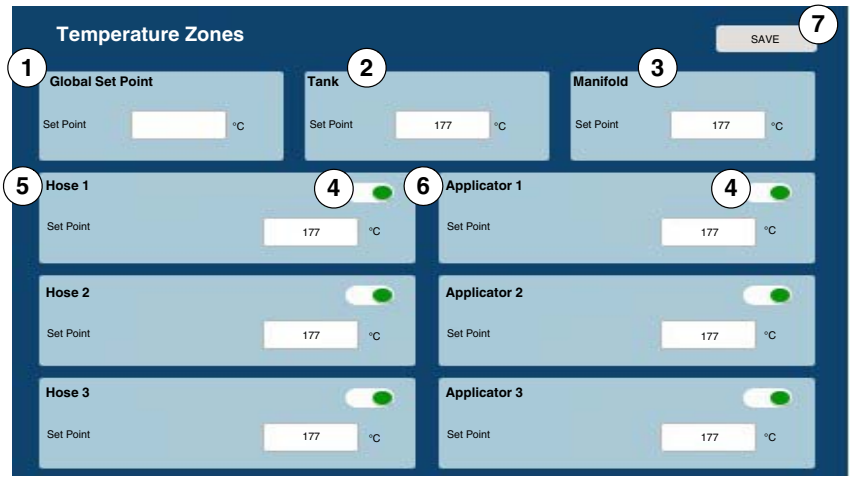


Table 2 Temperature Zones Screen

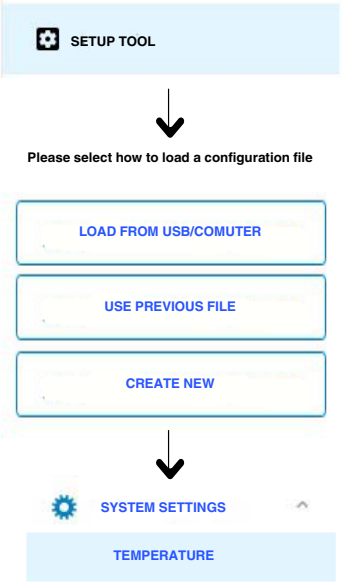
Parameter		Description	Range of Values	Default Value
1	Global Set Point	Sets all zones to the same set point temperature, whether they are enabled or disabled	40–204 °C (100–400 °F)	177 °C (351 °F)
2	Tank	Sets the tank/grid temperature set point **NOTE:** This zone cannot be disabled.	40–204 °C (100–400 °F)	177 °C (351 °F)
3	Manifold	Sets the manifold temperature set point **NOTE:** This zone cannot be disabled.	40–204 °C (100–400 °F)	177 °C (351 °F)

Continued...

Runtime Settings: Temperature Zones Screen (contd)

Table 2 Temperature Zones Screen *(contd)*

Parameter		Description	Range of Values	Default Value
4	Enable/disable heated zone toggle	Enables or disables the selected zone (hose or applicator zones only)	Enabled, Disabled	Disabled
5	Hose zones	Sets the temperature set point for each hose zone	40–232 °C (100–450 °F)	177 °C (351 °F)
6	Applicator zones	Sets the temperature set point for each applicator zone	40–232 °C (100–450 °F)	177 °C (351 °F)
7	Save	Saves entered values	—	—



System Settings: Temperature Settings

This screen is used for the following tasks:

- (Melt-on-Demand systems only) Enabling/disabling SmartMelt and setting a SmartMelt time delay
- Enabling or disabling Heaters Upon Startup
- Setting Over Temperature, Under Temperature, and Temperature Setback set points
- Managing Setback Settings
- Enabling or disabling Ready Delay and setting a Time Delay

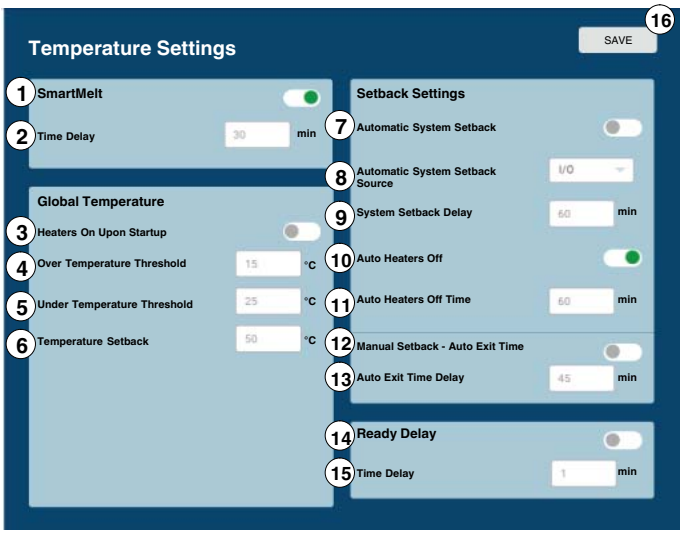


Table 3 Temperature Settings Screen

Parameter		Description	Range of Values	Default Value
1	Enable/disable SmartMelt	*(Melt-on-Demand systems only)* Enables or disables SmartMelt **NOTE:** For Melt-on-Demand systems, SmartMelt allows the system to automatically reduce the tank temperature by 25 °C (45 °F) if the fill system is inactive for the user-specified amount of time (Time Delay), thereby preventing adhesive degradation. The system continues to maintain ready status until a fill signal is generated again.	Enabled, Disabled	Disabled
2	Time Delay	*(Melt-on-Demand systems only)* Sets how long the fill system can stay inactive before the system automatically reduces the tank temperature by 25 °C (45 °F)	0–60 (min)	30 (min)

Continued...

System Settings: Temperature Settings (contd)

Table 3 Temperature Settings Screen *(contd)*

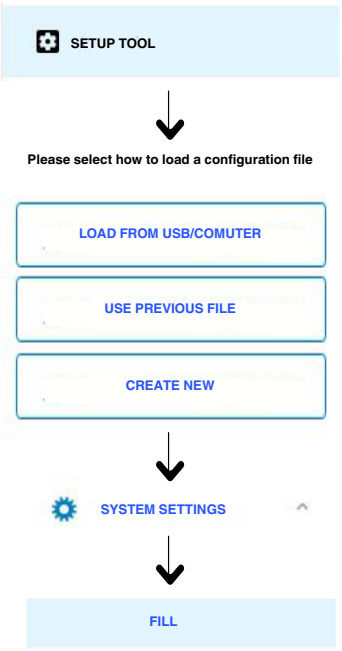
Parameter		Description	Range of Values	Default Value
3	Heaters On Upon Startup toggle	Enables or disables automatic heaters on at startup **NOTE:** By default, the Master Heat control is switched off at startup.	Enabled, Disabled	Disabled
4	Over Temperature Threshold	Sets the maximum temperature offset from any heated zone set point before the system enters into an Alert condition. If the condition is not resolved within 2 minutes, the system enters into a Fault condition	5–61 °C (10–110 °F)	5 °C (10 °F)
5	Under Temperature Threshold	Sets the minimum temperature offset from any heated zone set point before the system enters into an Alert condition. If the condition is not resolved within 2 minutes, the system enters into a Fault condition	9–60 °C (10–110 °F)	25 °C (45 °F)
6	Temperature Setback	Sets the number of degrees by which all heated components will be decreased (offset from current set point) when the system is placed into Heat Schedule and Manual/Automatic Setback	5–60 °C (10–120 °F)	50 °C (90 °F)
7	Automatic System Setback toggle	Enables or disables Automatic System Setback When enabled, the melter automatically enters into Setback mode based on the specified Automatic System Setback Source **and** after the System Setback Delay time has expired. When the system is in setback mode, you can also enter a time delay to automatically switch off the Master Heat Control to prevent adhesive from charring or degrading.	Enabled, Disabled	Disabled
8	Automatic System Setback Source	Sets the source that causes the system to automatically enter setback mode: • An input / output signal • A fill system signal (optional for tank system configurations) • A flow signal (when a flow monitoring option is installed)	I/O FILL FLOW	I/O

Continued...

System Settings: Temperature Settings (contd)

Table 3 Temperature Settings Screen *(contd)*

Parameter		Description	Range of Values	Default Value
9	System Setback Delay	Sets the amount of time to elapse, based on system inactivity, before the system automatically enters setback mode	1–1,440 (min)	60 (min)
10	Auto Heaters Off toggle	Enables or disables the Auto Heaters Off	Enabled, Disabled	Disabled
11	Auto Heaters Off Time	Sets the amount of time the melter remains in setback mode before automatically switching off the Master Heat control	1–1,440 (min)	60 (min)
12	Manual Setback - Auto Exit Time toggle	Enables or disables the Manual Setback - Auto Exit Time	Enabled, Disabled	Disabled
13	Auto Exit Time Delay	After the melter is manually placed into setback mode, sets the amount of time the melter waits before automatically exiting the Setback mode	1–140 (min)	45 (min)
14	Ready Delay toggle	Enables or disables Ready Delay (Time Delay) A Ready Delay allows additional time for the adhesive in the tank to melt to the needed production level.	Enabled, Disabled	Disabled
15	Time Delay	Sets the time to elapse after the tank and manifold reach set point temperature but before the melter enters the Temperature Ready state	1–60 (min)	1 (min)
16	Save	Saves entered values	—	—



System Settings: Fill Settings

This screen is used for the following tasks:

- Entering Maximum Fill Time and Target Fill Level settings (MOD and Tank with Fill System only)
- Enabling or disabling a Low Level Alert message and entering a Low Level Threshold
- Setting up Empty Stop
- Enabling or disabling a Lid Open Alert message and entering a Lid Open Alert Time

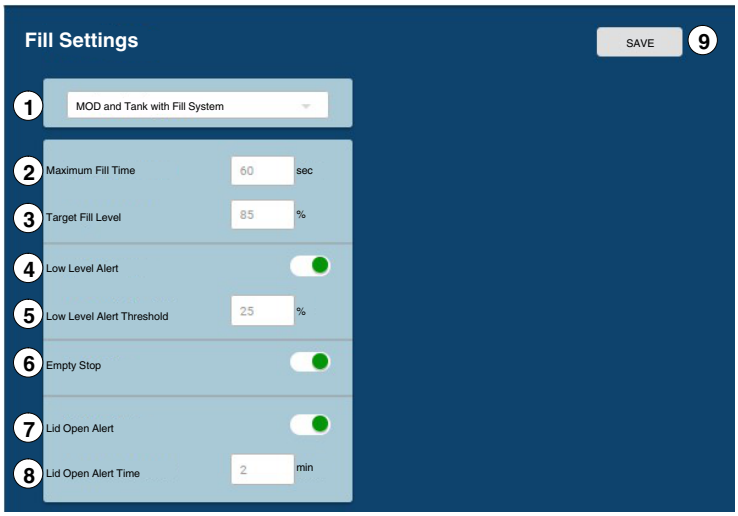


Table 4 Fill Settings Screen

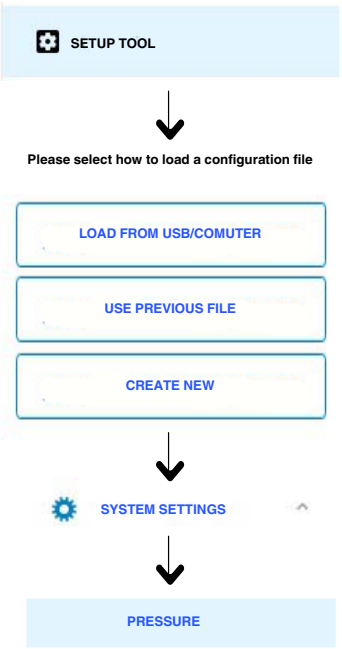
Parameter		Description	Range of Values	Default Value
1	System fill configuration selection	Sets the system fill configuration **NOTE:** MOD stands for Melt-on-Demand.	MOD and Tank with Fill System Tank Only	MOD and Tank with Fill System
2	Maximum Fill Time	*(MOD and Tank with Fill System only)* Sets the maximum number of seconds the system can attempt to fill the tank before generating an Alert condition	60–600 (s)	60 (s)

Continued...

System Settings: Fill Settings (contd)

Table 4 Fill Settings Screen *(contd)*

Parameter		Description	Range of Values	Default Value
3	Target Fill Level	*(MOD and Tank with Fill System only)* Sets the percentage of the tank level as a basis for when you want the system to start/stop filling the tank. The system will start filling the tank 5% below the target level and will stop filling 5% above the target level.	40–85 (%)	85 (%)
4	Low Level Alert toggle	Enables or disables a Low Level Alert message	Enabled, Disabled	Disabled
5	Low Level Alert Threshold	Sets the percentage of adhesive that must be present in the tank before the system generates a Low Level Alert message	10–30 (%)	25 (%)
6	Empty Stop toggle	Enables or disables Empty Stop The Empty Stop option prevents air from entering the system, which can cause the pump to cavitate or pump erratically, potentially damaging the pump. This option also temporarily stops production just before the adhesive output exceeds the production specifications, preventing defective product production.	Enabled, Disabled	Enabled
7	Lid Open Alert toggle	Enables or disables a Lid Open Alert message	Enabled, Disabled	Disabled
8	Lid Open Alert Time	Sets the minutes the lid stays open before the system generates a Lid Open Alert message **NOTE:** An optional lid switch (P/N 1128173) is required for the Lid Open Alert message. The lid switch is standard for Melt-on-Demand systems.	1–10 (min)	2 (min)
9	Save	Saves entered values	—	—



System Settings: Pressure Settings

Your melter includes either manual or electric pressure adjustment/monitoring. Electronic pressure control can be added to a melter. Refer to the **ProBlue Flex Core Customer Product Manual (P/N 1128350)** for kit part numbers.

This screen is used for the following tasks:

- Setting the pressure mode (Manual or Electronic)
- Adjusting the pressure setpoint (Electronic pressure control only)
- Enabling or disabling a Pressure Setting Range Alert message
- Entering Minimum and Maximum Pressure Alert settings (Manual pressure control only)
- Entering Low and High Pressure Alert Thresholds and setting a Minimum and Maximum Pressure Set Point Range (Electronic pressure control only)

Refer to the correct screen for your melter configuration.

Pressure Settings Screen: Manual Mode

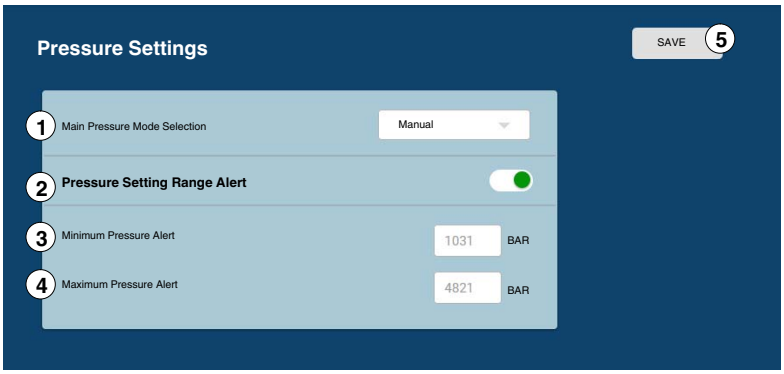


Figure 9 Pressure Settings screen: Manual mode

Table 5 Manual Mode Pressure Settings Screen

Parameter		Description	Range of Values	Default Value
1	Main Pressure Mode Selection	Sets the pressure mode of operation	Manual, Electronic	Manual
2	Pressure Setting Range Alert toggle	Enables or disables a Pressure Setting Range Alert message	Enabled, Disabled	Disabled

Continued...

System Settings: Pressure Settings (contd)

Table 5 Manual Mode Pressure Settings Screen *(contd)*

Parameter		Description	Range of Values	Default Value
3	Minimum Pressure Set Point	Sets the minimum pressure the system can reach before it generates a Pressure Setting Range Alert message	0–6.55 bar (0–95 psi, 0–655 kPa)	0 bar (0 psi, 0 kPa)
4	Maximum Pressure Set Point	Sets the maximum pressure the system can reach before it generates a Pressure Setting Range Alert message	0.34–6.90 bar (5–100 psi, 34–690 kPa)	6.90 bar (100 psi, 690 kPa)
5	Save	Saves entered values	—	—

Pressure Settings Screen: Electronic Mode

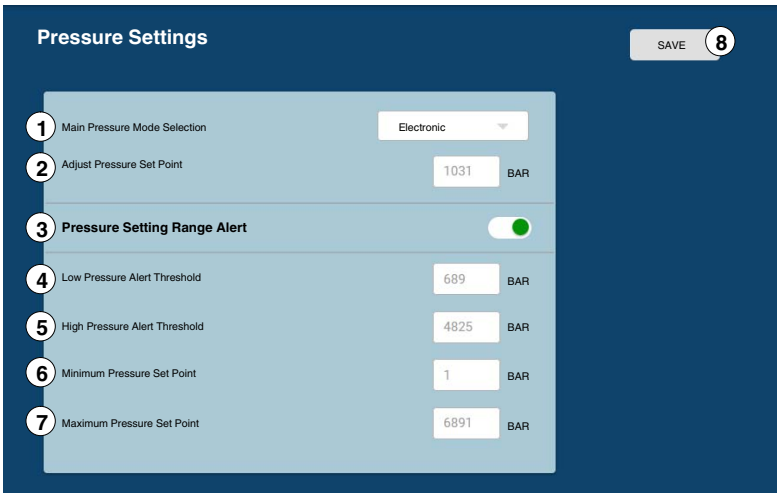


Figure 10 Pressure Settings screen: Electronic mode

Table 6 Electronic Mode Pressure Settings Screen

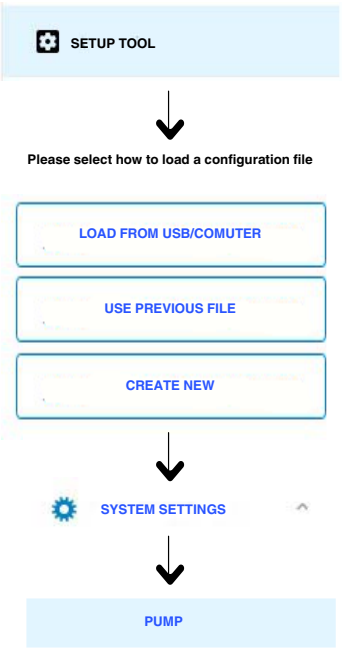
Parameter		Description	Range of Values	Default Value
1	Main Pressure Mode Selection	Sets the pressure mode of operation **NOTE:** The Electronic pressure mode requires additional hardware.	Manual, Electronic	Manual
2	Adjust Pressure Set Point	Sets the pressure set point	Enabled, disabled	Enabled

Continued...

System Settings: Pressure Settings (contd)

Table 6 Electronic Mode Pressure Settings Screen *(contd)*

Parameter		Description	Range of Values	Default Value
3	Pressure Setting Range Alert toggle	Enables or disables a Pressure Setting Range Alert message	Enabled, Disabled	Disabled
4	Low Pressure Alert Threshold	Sets the amount of pressure offset below the set point before the melter enters into a Low Pressure Alert condition	0–6.55 bar (0–95 psi, 0–655 kPa)	0 bar (0 psi, 0 kPa)
5	High Pressure Alert Threshold	Sets the amount of pressure offset above the set point before the melter enters into a High Pressure Alert condition	0.34–6.90 bar (5–100 psi, 34–690 kPa)	6.90 bar (100 psi, 690 kPa)
6	Minimum Pressure Set Point Range	Sets the minimum pressure you want to use while in production **NOTE:** For systems with Electronic pressure adjustment, the pressure must be 0.34 bar (34 kPa, 5 psi) below the *High Pressure Alert Threshold*.	0.69–4.83 bar (10–70 psi, 69–483 kPa)	1.03 bar (15 psi, 103 kPa)
7	Maximum Pressure Set Point Range	Sets the maximum pressure you want to use while in production **NOTE:** The pressure must be 0.34 bar (34 kPa, 5 psi) above the *Low Pressure Alert Threshold*.	1.38–6.90 bar (20–100 psi, 138–690 kPa)	4.83 bar (70 psi, 483 kPa)
8	Save	Saves entered values	—	—

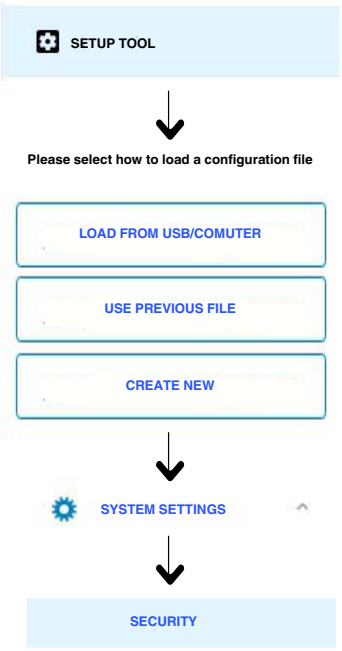


System Settings: Pump Settings

This screen is used to enable or disable the Auto Pump setting.

Table 7 Pump Screen

Parameter		Description	Range of Values	Default Value
1	Auto Pump toggle	Enables or disables Auto Pump When Auto Pump is enabled, the Master Pump control is automatically switched On when the system reaches Ready status. When Auto Pump is disabled, the Master Pump control does not switch On when the system reaches Ready status.	Enabled, Disabled	Enabled
2	Save	Saves entered values	—	—



System Settings: Security Settings

This screen is used to set the security level required to adjust selected runtime settings, system settings, and other actions.

There are three levels of security: Unsecured, Operator, and Technician. When you select the Operator or Technician security level for a setting/tool, the user must enter the applicable password to access the screen for that setting/tool.

Level of Security	Password
Unsecured	None
Operator	1000
Technician	2000

NOTES:

- When you enable a security setting, it is for both Operator and Technician. You cannot enforce one without the other.
- A Technician password can be used to access Operator tasks, but an Operator password cannot be used to access Technician tasks.
- There is no limit to the number of failed attempts to enter an Operator or Technician password.
- You cannot change the Operator or Technician password.

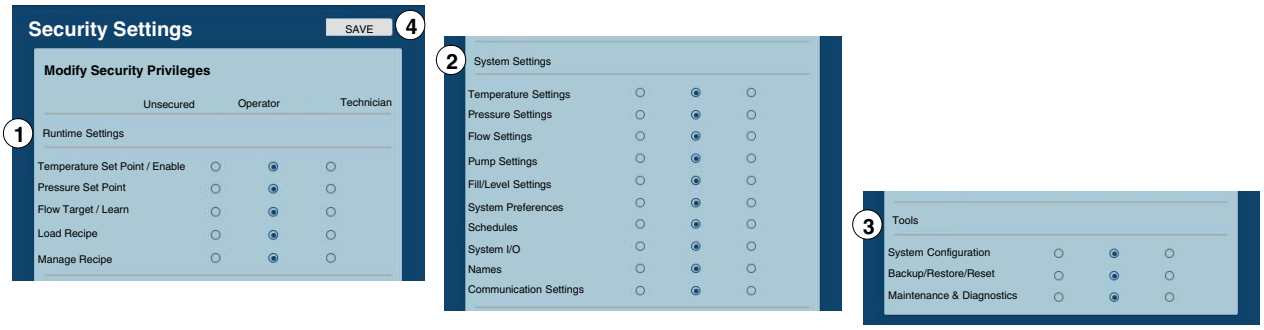
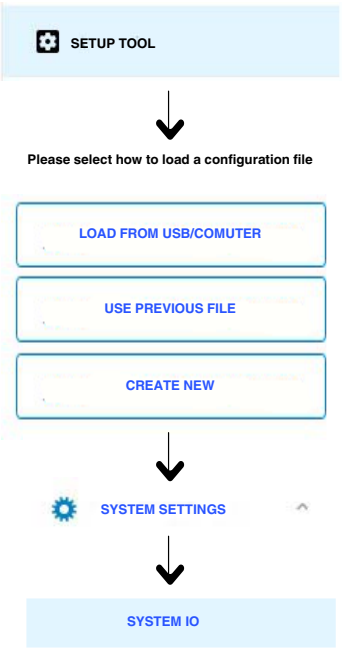


Figure 11 Security Settings screen (refer to Table 8)

System Settings: Security Settings (contd)

Table 8 Security Settings Screen

Parameter		Description	Range of Values	Default Value
1	Runtime Settings	Sets the security level required to adjust the following settings: • Temperature Setpoint / Enable • Pressure Setpoint • Flow Target / Learn • Load Recipe • Manage Recipe	Unsecured, Operator, Technician	Unsecured
2	System Settings	Sets the security level required to adjust the following settings: • Temperature Settings • Pressure Settings • Flow Settings • Pump Settings • Fill/Level Settings • System Preferences • Schedules • System I/O • Names • Communication Settings	Unsecured, Operator, Technician	Unsecured
3	Tools	Sets the security level required to adjust the following settings: • System Configuration • Backup/Restore/Reset • Maintenance & Diagnostics	Unsecured, Operator, Technician	Unsecured
4	Save	Saves entered values	—	—



System Settings: System I/O

The melter is equipped with one user-configurable input and one user-configurable output. Wire the inputs/outputs to the melter, then configure the inputs and outputs using the System I/O screen.

- Configuring the standard system input and output
- Configuring legacy system inputs and outputs
- Inverting (reversing) the polarity of an input/output

NOTES:

- You can expand the total number of inputs to 5 and the total number of outputs to 4 by ordering the legacy I/O expansion kit, P/N 1127717. Table 10 for the legacy input/output configurations.
- The Remote Lockout LED on the melter control panel illuminates when an input is assigned.
- You cannot assign the same input selection to multiple inputs.
- You cannot assign the same output selection to multiple outputs.

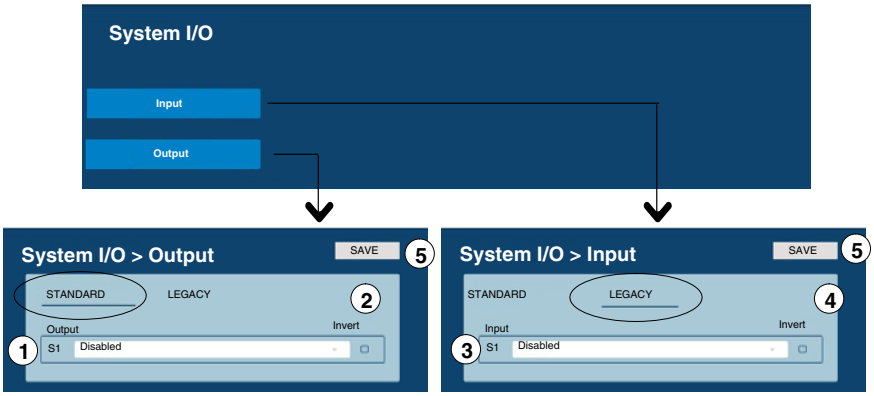


Figure 12 Standard system I/O screens (refer to Table 9)

System Settings: System I/O *(contd)*

Table 9 Standard System I/O Screens

Parameter		Description	Range of Values	Default Value
1	Standard Input S1	Sets the configuration of the input **NOTE:** An input assigned for System Enable that is NOT inverted prevents or stops the Master Heat control from switching on. Typically you would use this for an Emergency Stop.	Disabled Setback Control Heater Control Pump Control Automatic Setback Fill Control Flow Monitor System Enable Remote Recipe 0 Remote Recipe 1 Remote Recipe 2 Remote Recipe 3 Remote Recipe 4 Enable Applicator*x*/Hose*x* (where *x* = 1 to 8)	Disabled
2	Invert	Inverts (reverses) the polarity of standing input S1	Inverted, Not Inverted	Not inverted (active high)
3	Standard Output S1	Sets the configuration of the output **NOTE:** The System Alert and System Fault outputs are inverted by default, but the Invert checkbox is clear.	Disabled Temperature Ready System Run-Ready Fill Ready Temperature Ready-Pump On Fill Active Fill Overfill Alarm Fill Fault Tank Low System Alert System Fault Low Pressure Flow Alert Flow Fault	Disabled
4	Invert	Inverts (reverses) the polarity of standing input S1	Inverted, Not Inverted	Not inverted (active high)
5	Save	Saves entered values	—	—

System Settings: System I/O *(contd)*

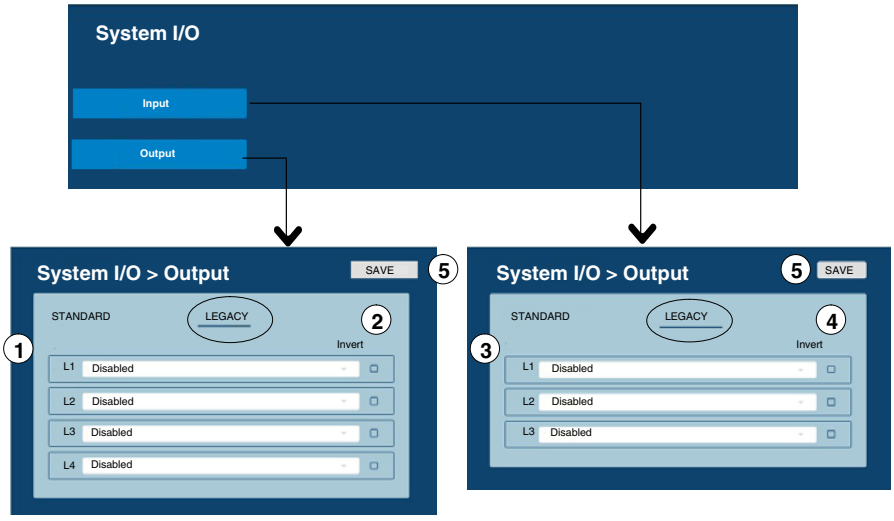
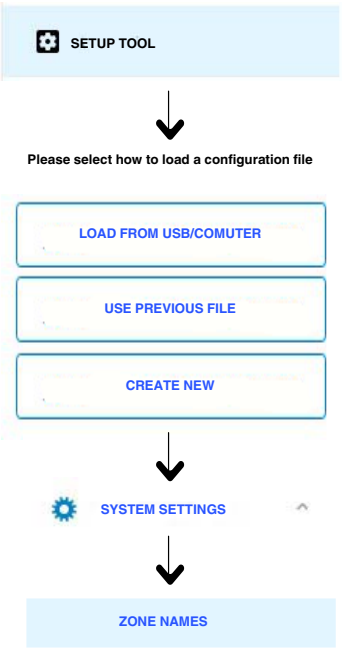


Table 10 Legacy System I/O Screens

Parameter		Description	Range of Values	Default Value
1	Legacy Input L1, L2, L3, or L4	Sets the configuration of the input	Same as standard inputs (refer to Table 9)	Disabled
2	Invert	Inverts (reverses) the polarity of standing input S1	Inverted, Not Inverted	Not inverted (active high)
3	Legacy Output L1, L2, or L3	Sets the configuration of the output **NOTE:** The System Alert and System Fault outputs are inverted by default, but the Invert checkbox is clear.	Same as standard output (refer to Table 9)	Disabled
4	Invert	Inverts (reverses) the polarity of standing input S1	Inverted, Not Inverted	Not inverted (active high)
5	Save	Saves entered values	—	—

System Settings: Zone Names



This screen is used to enter custom zone names. Select the **edit icon** ✎ to change the name.

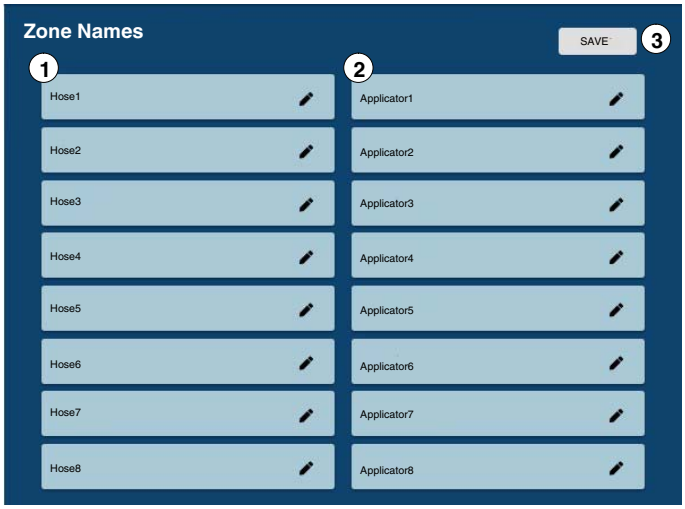
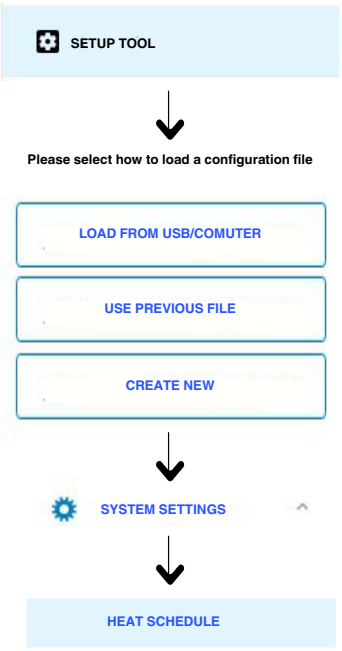


Table 11 Zone Names Screen

Parameter		Description	Range of Values	Default Value
1	Hose zone names	Sets a custom name for hose zones 1–8	Up to 15 standard keyboard characters (including special characters)	HoseX (where X = 1–8)
2	Applicator zone names	Sets a custom name for applicator zones 1–8	Up to 15 standard keyboard characters (including special characters)	ApplicatorX (where X = 1–8)
3	Save	Saves entered values	—	—



System Settings: Heat Schedule

This screen is used for the following tasks:

- Setting up a schedule to automatically switch the heaters On or Off
- Setting up a schedule to automatically enter and exit Setback mode

NOTES:

- The maximum allowable number of event pairs is 6. You must enter heater on/off times for each Heat Event or Setback Event.
- Heat Events and Setback Events cannot overlap each other.
- A Setback Event must be contained within a Heat Event.
- You can have multiple Setback Events within a single Heat Event.
- If you remove a Heat Event, then all Setback Events contained within that Heat Event are automatically deleted as well.
- Heat or Setback Events cannot cross into the next day.

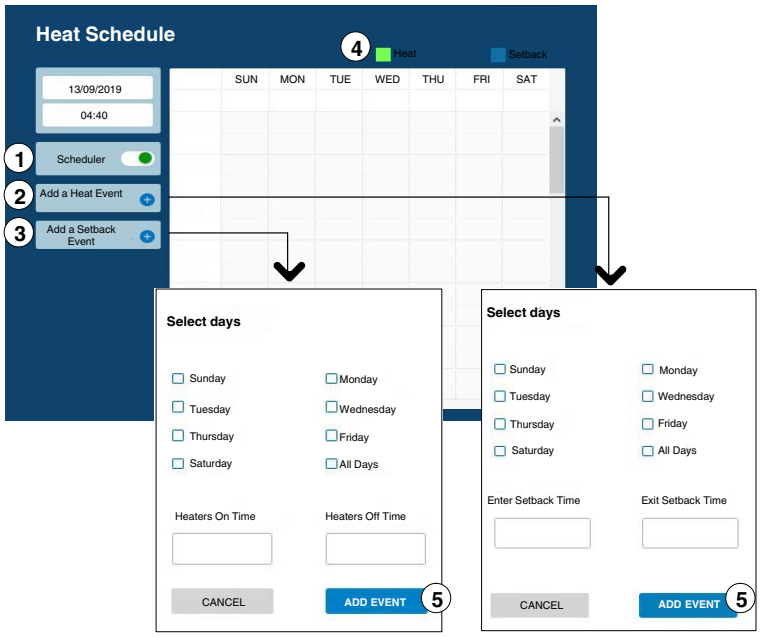


Table 12 Heat Schedule Screen

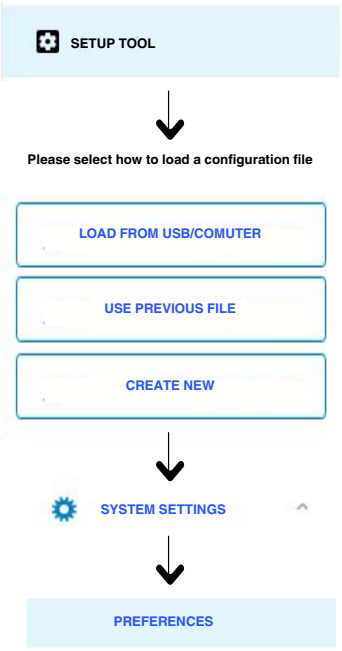
Parameter		Description	Range of Values	Default Value
1	Scheduler toggle	Enables or disables the Scheduler **NOTE:** The Scheduler must be enabled each time you enter an event.	Enabled, Disabled	Enabled

Continued...

System Settings: Heat Schedule (contd)

Table 12 Heat Schedule Screen *(contd)*

Parameter		Description	Range of Values	Default Value
2	Add a Heat Event	Select to add a Heat Event, check the days for the event ,and enter a **Heaters On Time** and **Heaters Off Time**. Select **Add Event** to save the settings, or **Cancel** to exit without saving. **NOTE:** Time must be entered in the same format specified under **Preferences**	**Time Clock**. **NOTE:** To exit without creating an event, press Escape.	Sunday to Saturday 12 AM to 12 PM	None
3	Add a Setback Event	Select to add a Setback Event, check the days for the event, and enter a **Enter Setback Time** and **Exit Setback Time**. Select **Add Event** to save the settings, or **Cancel** to exit without saving. **NOTE:** Time must be entered in the same format specified under **Preferences**	**Time Clock**. **NOTE:** To exit without creating an event, press Escape.	Sunday to Saturday 12 AM to 12 PM	None
4	Legend	Indicates whether the events shown the calender are Heat events (green) or Setback events (blue)	—	—
5	Cancel or Add Event button	Cancels the current action or adds the event	—	—



System Settings: Preferences

This screen is used for the following tasks:

- Setting your system preferences, including language, units of measure, system clock, and time format
- Entering a custom name for the melter
- Enabling or disabling recipes
- Enabling or disabling remote recipe management

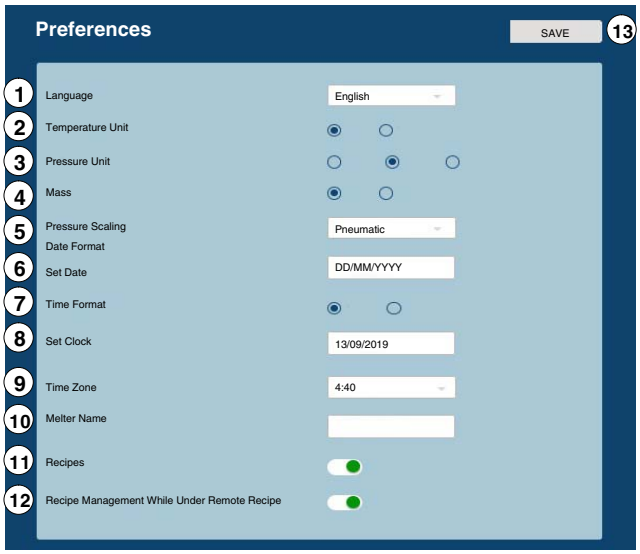


Table 13 Preferences Screen

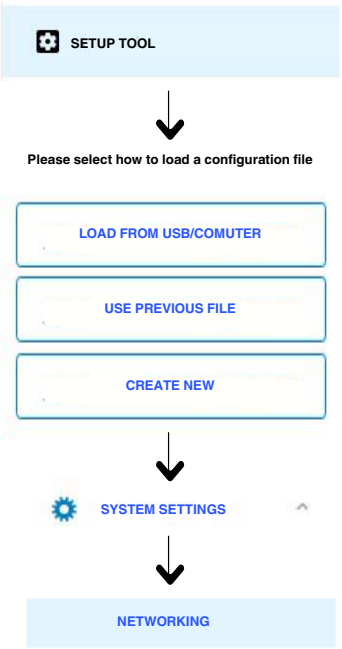
Parameter		Description	Range of Values	Default Value
1	Language	Sets the language	English	English
2	Temperature Unit	Sets the unit of measure for temperature	°C, °F	°C
3	Pressure Unit	Sets the unit of measure for pressure	kPa BAR PSI	BAR
4	Mass	Sets the unit of measure for mass	kg lb	kg
5	Date Format	Sets the date format	YYYY/MM/DD DD/MM/YYYY MM/DD/YYYY	DD/MM/YYYY
6	Set Date	Sets the current date	—	—

Continued...

System Settings: Preferences (contd)

Table 13 Preferences Screen *(contd)*

Parameter		Description	Range of Values	Default Value
7	Time Format	Sets the time format	12H 24H	24H
8	Set Clock	Sets the current time	—	—
9	Time Zone	Sets the time zone based on location	Multiple	United States
10	Melter Name	Sets a custom name for the melter	Up to 15 standard keyboard characters (including special characters)	None
11	Recipes toggle	Enables or disables the recipe management capability	Enabled, Disabled	Enabled
12	Recipe Management Under Remote Recipe toggle	Enables or disables the remote recipe management capability	Enabled, Disabled	Enabled
13	Save	Saves entered values	—	—



System Settings: Network Settings

This screen is used for the following tasks:

- Enabling or disabling wireless communication
- Entering IP (Internet Protocol) addresses
- Setting the PLC Access
- Entering the PROFINET Device ID

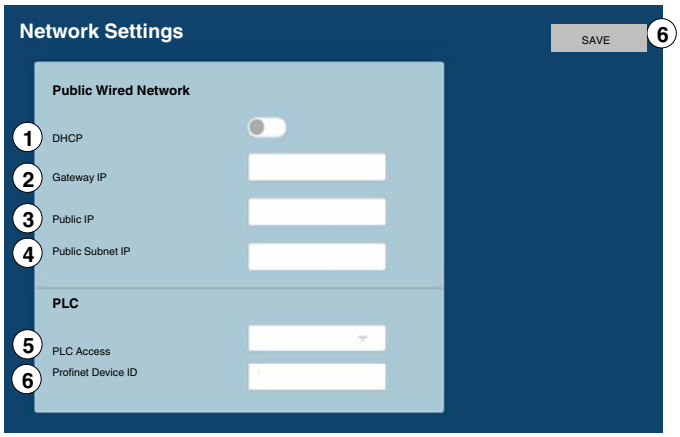
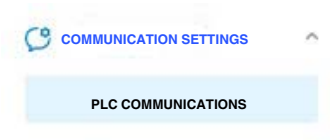


Table 14 Network Settings Screen

Parameter		Description	Range of Values	Default Value
1	DHCP toggle	Enables or disables DHCP (Dynamic Host Configuration Protocol)	Enabled, Disabled	Disabled
2	Gateway IP	Sets the gateway IP address	—	—
2	Public IP	Sets the IP address for the melter	—	192.168.3.1
3	Public Subnet IP	Sets the subnet address for the melter	—	255.255.255.0
4	PLC Access	Sets the level of PLC access	Full Read Only Off	Full
5	Profinet Device ID	Sets the PROFINET device identification	—	—
6	Save	Saves entered values	—	—

Managing PLC Communications



This section provides procedures for using BBconn Cloud to customize the Application Data Identifier (ADI) map for PLC communications. Refer to *PLC Integration* under *Advanced Operation* later in this manual for all steps required to integrate an OEM melter with a PLC.

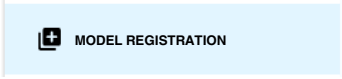
NOTE: This section is for use only by experienced PLC engineers.

Viewing or Customizing the ADI Map

The ProBlue Flex melter comes with a default cyclic map, referred to as an ADI map. The map is designed with a pre-configured section that is Nordson's best estimation of what most customers will select for their HMI, and a free section for custom data. You can use BBconn Cloud to customize the ADI map.

NOTES:

- For detailed information about PLC communications for ProBlue Flex OEM melters, refer to *About PLC Protocol* later in this section.
- For the ADI map, refer to **Application Data Identifier (ADI) Map (P/N 1128648)**.



1. In BBconn Cloud, select **Model Registration**.
2. Select the **down arrow** ➘ to expand the .NOR file drop-down list.

   NOTE: For registered melters, the .NOR file is already present on BBconn Cloud.
3. Select **Edit as New File** for the melter data map you want to customize. The Temperature Zones screen opens.

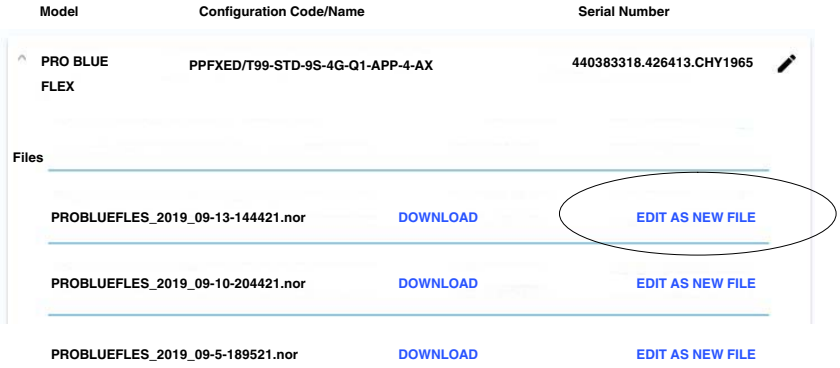
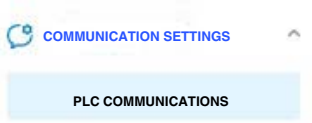


Figure 13 Creating a new .NOR file from an existing file

Managing PLC Communications *(contd)*



4. Select **Communication Settings** | **PLC Communications**. The PLC Mapping and Interface Setup screen opens.

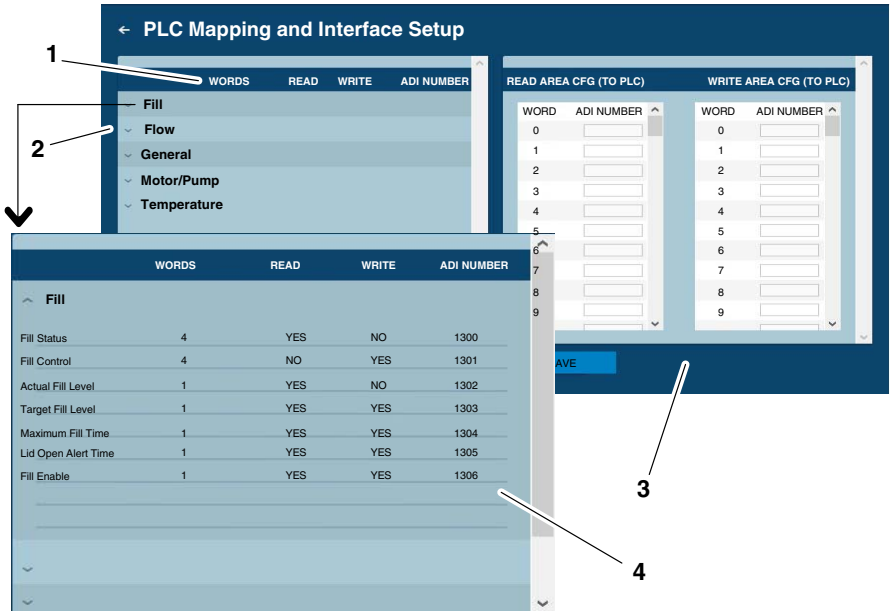


Figure 14 PLC Mapping and Interface Setup screen

1. Words, Read, Write, and ADI Number column heads
2. Parameter groups
3. Read/Write data maps
4. Expanded parameter group (Fill group shown)

5. Select the **down arrow** ➘ next to each parameter group to expand the selection. The following parameter groups are included: Fill, Flow, General, Motor/Pump, and Temperature.
6. Select the **ADI number**, then drag and drop it either the **Read Area CFG (To PLC)** or the **Write Area CFG (To PLC)** column (see the notes below for special instructions).

   The system automatically fills rows depending on the number of words required for each parameter.

NOTES:

- READ settings must be dropped only into the the READ area. WRITE settings must be dropped in to the WRITE area. If a setting is both READ and WRITE, such as Target Fill Level (13003), then you can add it to BOTH the READ and WRITE areas. BBconn Cloud ignores un-allowable actions.

Viewing or Customizing the ADI Map *(contd)*

Incorrect drag and drop operation

Correct drag and drop operation

- You cannot have duplicates in the same AREA. For example, Fill Status cannot occur twice in the READ area. BBconn Cloud ignores un-allowable actions.
- If you try to drop into an area that is not available, or if the cursor is not in the correct location, a red circle with a red line appears.
- When a drag and drop is correct, a copy icon appears to indicate that you can release the left click button.
- BBconn Cloud automatically places ADI mapping requests in sequential order. For example, if nothing is entered in the READ area and you attempt to drag and drop Fill Status (13000) into the number 9 slot, BBconn Cloud automatically places the entry into slot 0, or the first available slot.
- To delete an ADI entry, left-click inside the field you want to delete and use the back space key to delete all the numbers; left-click anywhere on the screen to exit the field. The ADI entry is cleared.

7. Select **Save** to save the changes, or **Cancel** to exit without saving.

   When you select **Save**, BBconn Cloud names the .PLC file and saves (or prompts you to save, depending on your browser settings) the file to your computer's Downloads folder. The .PLC file name structure is myflexconfig_2019-09-29_220813.plc, where 2019-09-29 is the date and 220813 is the time (including seconds).

8. Continue to *Uploading a .PLC File to a Melter* in this section to transfer the saved .PLC file to your melter.

Downloading a .PLC File from BBconn Cloud

When you select **Save** in the PLC Mapping and Interface Setup tool, BBconn Cloud names the .PLC file and saves (or prompts you to save, depending on your browser settings) the file to your computer's Downloads folder.

The .PLC file name structure is myflexconfig_2019-09-29_220813.plc, where 2019-09-29 is the date and 220813 is the time (including seconds).

NOTE: When a .PLC is downloaded from the PLC Mapping and Interface Setup tool, it is a standalone file. When you download a .NOR file from BBconn Cloud, the .PLC file is also included in the .NOR file.

Uploading a .PLC File to a Melter

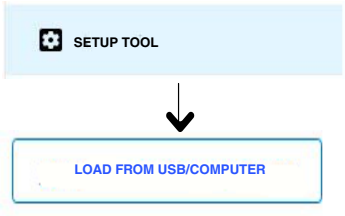
To upload a .PLC file to an OLED melter, refer to the appropriate procedure in the **ProBlue Flex OLED User Interface Customer Product Manual (P/N 1128351).**

To upload a .PLC file to an OEM melter, refer to *Uploading a .PLC File to an OEM Melter* under *PLC Integration* later in this manual.

Uploading a .PLC File to BBconn Cloud

.PLC files can be edited using the PLC mapping feature of BBconn Cloud. To edit the existing .PLC file on a melter, follow this procedure to obtain the .NOR file from that melter and then to upload the .NOR file to BBconn Cloud.

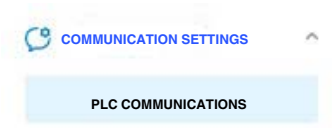
1. Back up the .NOR file from the applicable melter using either of the following methods:
   - To back up a .NOR file from a ProBlue Flex melter with an OLED control panel, refer to the **ProBlue Flex OLED User Interface Customer Product Manual (P/N 1128351).**
   - To back up a .NOR file from a ProBlue Flex melter with an OEM interface, refer to *Backing Up Melter Settings* under *Advanced Operation* later in this manual.
2. Log on to BBconn Cloud.
3. Select **Setup Tool** | **Load from USB/Computer**.



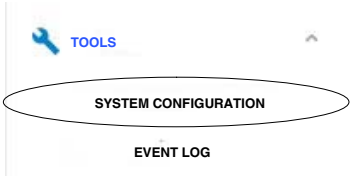
4. Navigate to the .NOR file and open it.

   The system uploads the .NOR file (which includes the .PLC file) and opens the Temperature Zones screen.

5. Select **Communication Settings** | **PLC Communications** to view the PLC file on the PLC Mapping and Interface Setup screen.



Managing the System Configuration



The Tools menu includes the System Configuration menu and the Event Log:

- The System Configuration menu provides access to the screens you need to view your system information, accessories, and configuration code.
- Event Log opens the Event Log screen. Refer to *Viewing the Event Log* later in this section for detailed information about the event log.

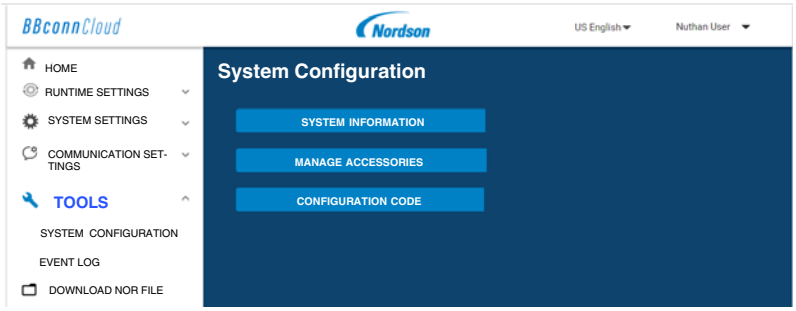
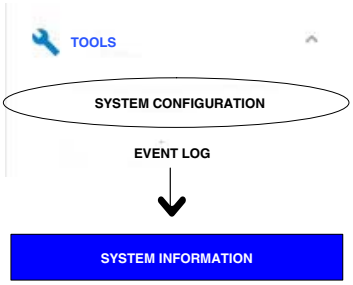


Figure 15 System Configuration menu



Viewing System and Configuration Information

The System Information screen provides the application and boot version numbers and the hardware revision numbers for the following:

- Low Voltage Controller
- Basic UI
- Temperature Boards 1–4
- Standard I/O Board

1. Open the .NOR file of the applicable melter.
2. Select **Tools** | **System Configuration** | **System Information**.

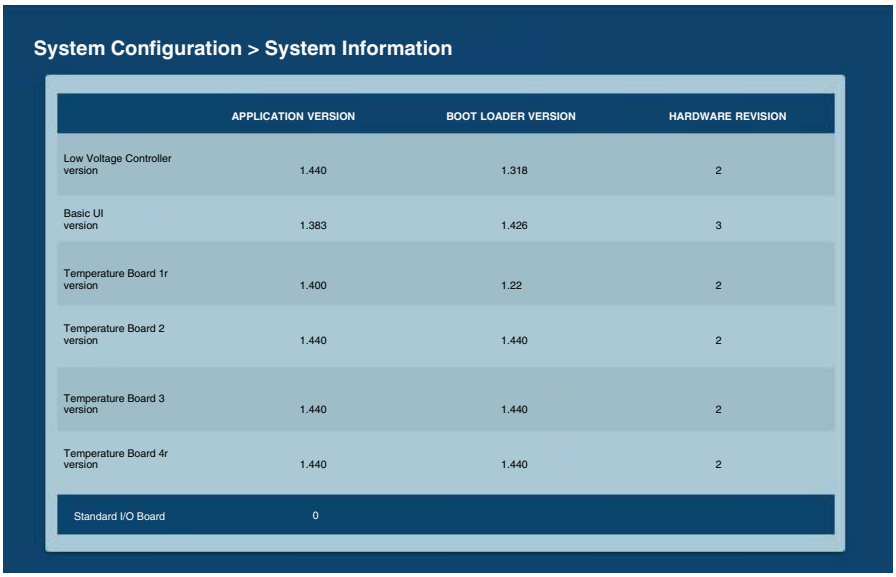
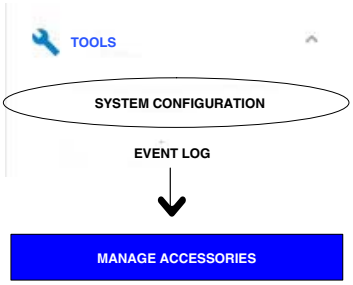


Figure 16 System Information screen



Viewing Installed Accessories

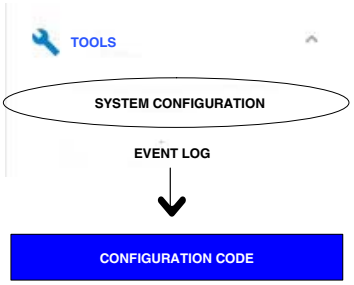
You can customize the melter with additional software and hardware features and options. Most accessories are automatically detected, but some are not. Typically, the instruction sheet that accompanies the accessory will indicate whether or not you need to manually update the melter accessories list.

You can view the installed accessories for each melter registered on BBconn Cloud.

1. Open the .NOR file of the applicable melter.
2. Select **Tools** | **System Configuration** | **Manage Accessories**.

   The Accessory Management screen shows the installed accessories for the melter.

Figure 17 Accessory Management screen



Viewing the Configuration Code

You can view the configuration of each melter registered on BBconn Cloud.

1. Open the .NOR file of the applicable melter.
2. Select **Tools** | **System Configuration** | **Configuration Code**.
3. Select **View**. The system show the following details:
   - Melter Series
   - Melt Section
   - Pump
   - Warm up Performance
   - Number of Hose/Applicator
   - Pressure Management
   - Product Performance Upgrades
   - UI (Melter Mounted User Interface)
   - Pressure Switch
4. Select the **cancel icon** × to exit.

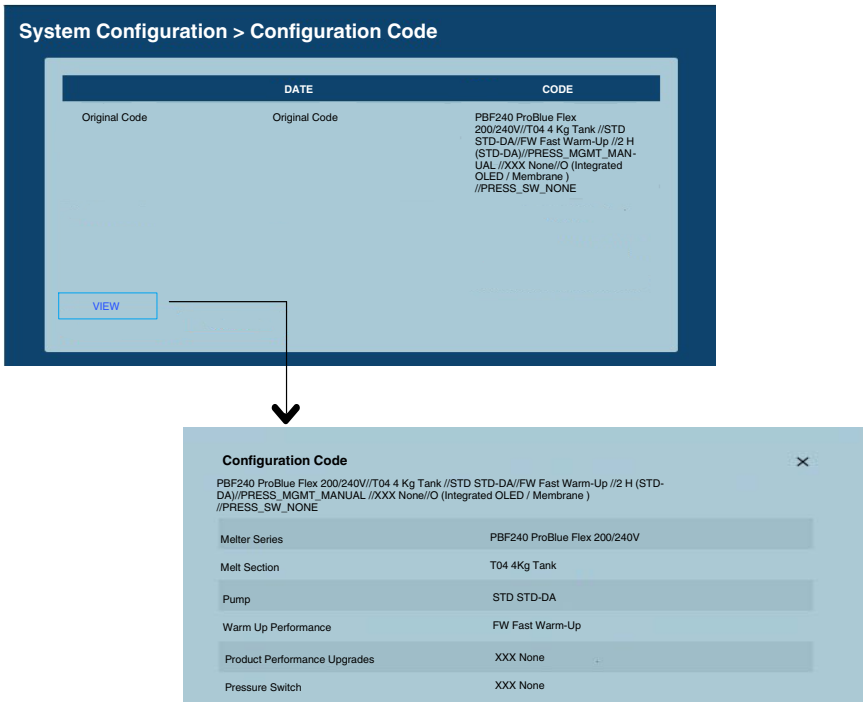
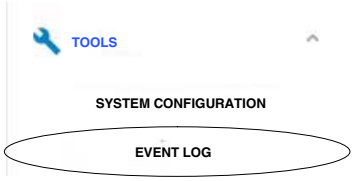


Figure 18 Configuration Code screen

Viewing the Event Log



The melter software includes a detailed Event Log for troubleshooting purposes. The Event Log keeps track of all melter events, including the time, day, and type of an event, such as an Alert, Fault, or Stop condition, as well as parameter changes. Additionally, the Event Log tracks all system-level events that may not generate an alert message.

About the Event Log Screen

The Event Log displays by date, showing the number of alerts, faults, and settings changes for each date, including a System Event total. When an Even Log date is expanded, it shows all the events for that date. You can sort events by Date, Event Type, or Zones, or you can filter events by Event Type, Date Range, or Zone/Device.

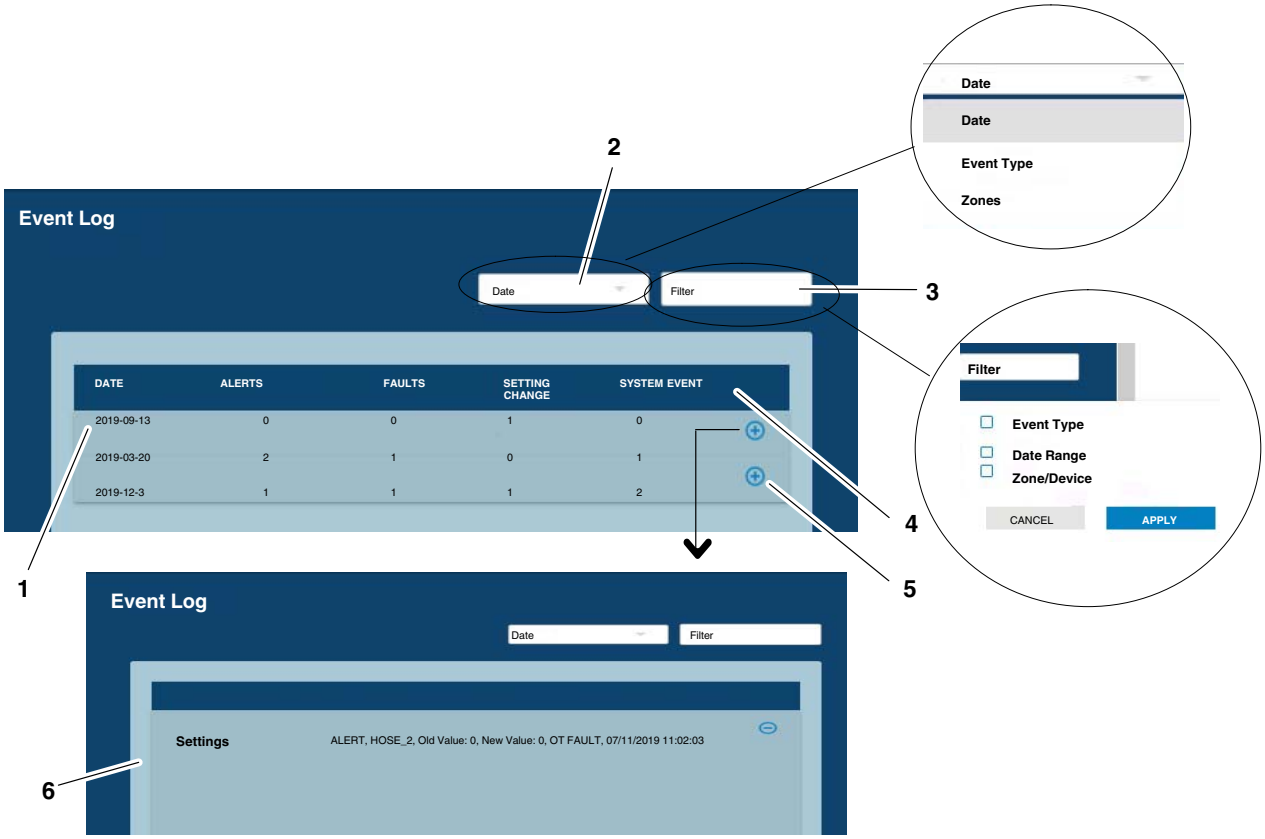


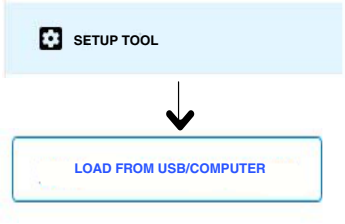
Figure 19 Event Log screen

1. Event dates
2. Event sorting options
3. Event filter options
4. Event statistics
5. Event expansion
6. Expanded events

Viewing an Event Log on BBconn Cloud

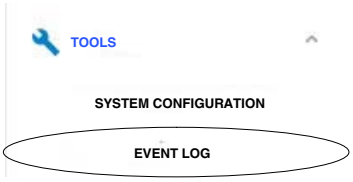
Event log files are contained in .NOR files. To view a melter's event log on BBconn Cloud, you must download the .NOR file from the melter and upload the file to BBconn Cloud.

1. Download the .NOR file from the applicable melter using either of the following methods:
   - To download a .PLC file from a ProBlue Flex melter with an OLED control panel, refer to the **ProBlue Flex OLED User Interface Customer Product Manual (P/N 1128351)**.
   - To download a .NOR file from a ProBlue Flex melter with an OEM interface, refer to *Backing Up Melter Settings* under *Advanced Operation* later in this manual.
2. Insert into your computer the USB drive that contains the .NOR file for the Event Log you want to view.
3. Log on to BBconn Cloud.



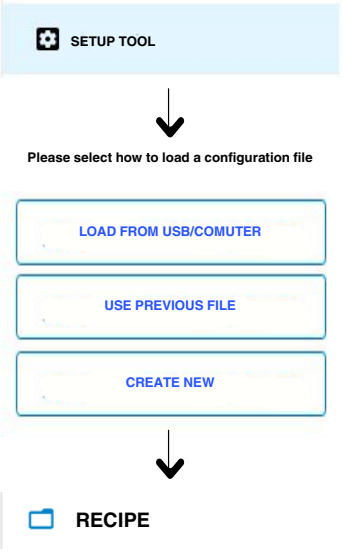
4. Select **Setup Tool** | **Load from USB/Computer**.
5. Navigate to the .NOR file to upload and select it.

   The system uploads the NOR file and opens the Temperature Zones screen.



6. Select **Tools** | **Event Log:**
   - If needed, sort by **Date**, **Event Type**, or **Zones**, or filter events by **Event Type**, **Date Range**, or **Zone/Device**.
   - To expand an event log, select the **date** or the **expand icon +**. The system shows all the events for the selected date.
   - To collapse an event log, select the minus icon **-**.
7. To exit, select another menu option.

Managing Recipes



Recipes are .XML files that are contained in a .NOR file. When a .NOR file is uploaded, any saved recipes are automatically added to the Recipe screen. Use the Recipe screen to manage your melter recipes, including:

- Editing recipes uploaded from a melter
- Creating new recipes
- Downloading recipes for transfer to a melter

A recipe is a collection of the following product-specific run-time settings:

- Heated zone temperature set points
- Enabled and disabled heated zones
- If your melter has the electronic pressure control option, minimum and maximum pressure set points

NOTES:

- By default, the ability to use recipes is enabled. However, you can disable it from **System Settings** | **Preferences**. If you disable recipes, then the current settings will be used each time you power cycle the melter.
- To make use of the Remote Recipe inputs, **Recipe Management Under Remote Recipe** (under **System Settings** | **Preferences**) must be enabled.

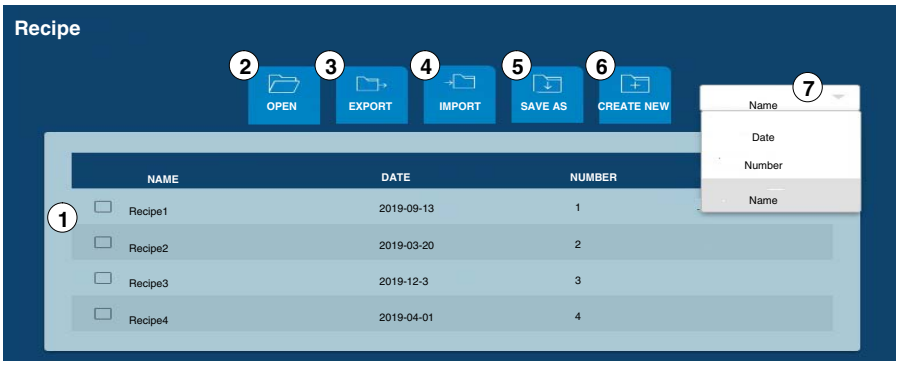


Table 15 Recipe Screen

Parameter		Description
1	Recipe selection	Select the check box next to a recipe to select it.
2	Open	Select **Open** to edit the selected recipe. Select **Save** to save the changes, then select **Recipe** at the top left of the screen to exit.

Continued...

Managing Recipes *(contd)*

Table 15 Recipe Screen *(contd)*

Parameter		Description
3	Export	Select **Export** to download the selected recipe as a .XML file. Only one recipe at a time can be downloaded. • To upload recipes to an OLED melter, refer to the **ProBlue Flex OLED User Interface Customer Product Manual (P/N 1128351).** • For OEM melters, recipes are managed only through .NOR files. To transfer recipes to/from BBconn Cloud to/from an OEM melter, you must upload/download the melter's .NOR file. Refer to *Managing Melter Data Files* under *Advanced Operation*, later in this manual, for file transfer procedures.
4	Import	Select **Import** to upload a recipe from a USB drive or your computer. Navigate to the selected recipe and select **Open**. The recipe is added to the Recipe screen. **NOTE:** For OEM melters, recipes are managed only through .NOR files. To transfer recipes to/from BBconn Cloud to/from an OEM melter, you must upload/download the melter's .NOR file. Refer to *Managing Melter Data Files* under *Advanced Operation*, later in this manual, for file transfer procedures.
5	Save As	Select **Save As** to to save the selected recipe as a new recipe with a new name. Recipe files names are limited to 16 characters.
6	Create New	Select **Create New**. The **Recipes**	**Settings** screen opens. Select the **down arrow** ⌄ to expand the Temperature Zones and Pressure screens and enter the desired settings under each. Select **Save** after you make changes in each window, then enter the name for the recipe. The new recipe is added to the Recipe screen.
7	Sort drop-down menu	Select the the drop-down menu to change how the recipes are sorted. You can sort by recipe Date, Number, or Name.