



USER GUIDE

BAFWorks® 3.0



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User Guide

BAFWorks® 3.0



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This product was manufactured in a plant whose Management System is certified as being in conformity with ISO 9001:2008.

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IMPORTANT SAFETY INSTRUCTIONS READ AND SAVE THESE INSTRUCTIONS

Read and save these instructions prior to operating your BAFWorks® control system. Retain this User Guide for operational and troubleshooting information. If you have further questions, contact Customer Service.

CAUTION: This guide is intended to provide instructions for using BAFWorks to control fans and other devices. Consult the installation guide included with the fan or device for additional installation, operation, and safety instructions.

WARNING: To reduce the risk of fire, electric shock, and serious bodily injury to persons, observe the following:

- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards.
- When cutting or drilling into a wall or ceiling, do not damage electrical wiring and other hidden utilities.
- Use BAFWorks only in the manner intended by the manufacturer.

CAUTION: Exercise caution and common sense when powering BAFWorks, fans, and other devices. Do not connect BAFWorks, fans, or other devices to a damaged power source. Do not attempt to resolve electrical malfunctions or failures on your own.

WARNING: Power must be disconnected before installation and servicing, cleaning, and other user-maintenance. Failure to disconnect power creates risk of fire, electric shock, and serious bodily injury.

CAUTION: The product warranty will not cover equipment damage or failure that is caused by improper installation or operation.

WARNING: Before installing or servicing, ensure power is disconnected.

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Introduction

Congratulations on your purchase of BAFWorks®! We are delighted that you have chosen our product to improve the quality of your indoor environment, and hope you'll have much pleasure using the control system for years to come. More importantly, you have purchased a product that is backed by extensive research, thorough testing, and quality manufacturing. We're ready to answer any questions or comments at 1-877-BIG-FANS or visit our Web site at www.bigasssolutions.com.

Who we are and what we do

Big Ass Solutions has been the preeminent manufacturer of large-diameter, low-speed fans since 1999. With a worldwide presence and located in beautiful Lexington, KY, we research, design, and manufacture the most effective air movement solutions on the market. Our never-ending commitment to quality and innovation keeps us at the leading edge of a burgeoning industry. With an eye to helping customers satisfy their needs, and a strong sense of corporate responsibility to the community, Big Ass Solutions has redefined the way business is done.

About BAFWorks®

BAFWorks enables you to network and control all of the fans, lights, and ventilation systems in your facility from a centralized location. The system's intuitive wall-mounted interface is simple to learn and makes controlling and automating your devices easier than ever. This translates into year-round energy control and savings, as well as real-time operational information about your devices, right at your fingertips.



2 Getting Started

Understanding the home screen

From the BAFWorks® home screen, you can easily access each of the fan groups, light groups, and ventilation groups in your system. See Figure 1 below for details on navigating the home screen. See the following chapters for details on working with fans, lights, and ventilation.



Figure 1–BAFWorks home screen

- A. Device Categories.** Touch a category to view your fan groups, light groups, or ventilation groups.
- B. All Devices Button.** Touch this button to view all of the devices in your system. This button is available on any screen of the application. See page 3 for details on working with all devices.
- C. Network Activity Indicator.** Provides a quick visual indication of network activity. Yellow indicates that the application is connected to the network. RX (green) indicates that the application is receiving data from your devices. TX (orange) indicates that the application is transmitting data to your devices. This indicator is visible on all screens of the application.
- D. Edit Button.** Touch this button to access administrative functions, such as adding and deleting devices. This setting requires administrator password entry. See page 16 for information on BAFWorks administration.
- E. Settings Icon.** Touch this icon to access general settings, such as administrator password and screen saver. This icon is available on any screen of the application. General settings require administrator password entry. See page 16 for information on BAFWorks administration.

Working with all devices

To view and interact with all of the devices in your BAFWorks® system, touch the **All Devices** button in the top right corner of any screen of the application. The All Devices screen provides you with real-time information about all of the devices in your system, as well as options for managing them. See Figure 2 below for details. See the following chapters for information on working with individual devices and device groups.



Figure 2—All Devices screen

- A. Home Button.** Touch the Home button to return to the BAFWorks home screen.
- B. Start/Stop All Devices.** Start or stop all devices in the system.
- C. Screen Navigation Bar.** Swipe your finger back and forth across the circles to view the devices on each screen. Up to six (6) devices can be displayed on one screen.
- D. Global Admin Lock.** Lock or unlock the operational status of all devices in the system. This setting requires administrator password entry. See page 16 for information on BAFWorks administration.
- E. Group Header.** Indicates the group to which the device belongs
- F. Animated Device Icon.** Provides a quick visual indication of device type and status. For fans, the device icon includes a speed indicator showing the fan's current running speed. Touch a device icon to view the settings for that device. See the following chapters for more information on device settings.
- G. Device Status Icon.** Indicates the device's operational status. See the following chapters for descriptions of each status icon.

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Fans

You can use BAFWorks® to configure settings for individual fans, as well as manage settings, schedules, and automation options for groups of fans.

Configuring individual fan settings

To adjust the settings for a fan in your BAFWorks system:

1. On the BAFWorks home screen, touch **Fans** or **All Devices**.
2. If you touched **Fans**, touch the name of the fan group containing the fan you want to work with.
3. Select the fan. The fan settings page appears (Figure 1).
4. Adjust the settings as necessary, and then touch **Done**. See Figure 1 below for details.

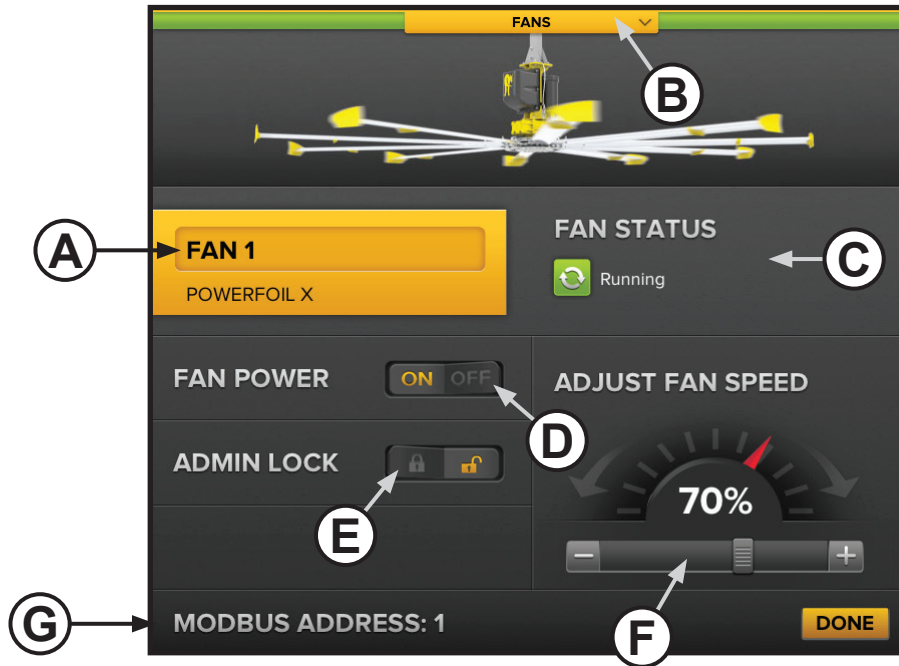






Figure 1–Fan settings page

- A. Fan Name.** Touch here to edit the fan name.
- B. Group Header.** Indicates the group to which the fan belongs. Touch the group header to assign the fan to a different group.
- C. Fan Status.** Indicates the fan's operational status. See the table below for descriptions of each status icon.
- D. Fan Power.** Start or stop the fan.
- E. Admin Lock.** Lock or unlock the fan's operational status. This setting requires administrator password entry.
- F. Adjust Fan Speed.** Drag the needle or the slider for coarse speed adjustments. Touch the plus (+) and minus (-) buttons for more finite control.
- G. Modbus Address.** Indicates the fan's address in the system (1–32) as assigned by the installer.

Fan status icons

Icon	Description
	Fan running, communication OK
	Fan stopped, communication OK
	Fan faulted, communication OK. See the fan Installation Guide for details on fan fault messages.
	Communication loss, fan status unknown

Starting and stopping fan groups

To start or stop a group of fans in your BAFWorks® system:

1. On the BAFWorks home screen, touch **Fans**.
2. Touch the name of the fan group you want to work with.
3. At the bottom of the screen, touch **Start Fans** or **Stop Fans** (Figure 2).

Note: You can also lock or unlock the operational status of the fans in the group by touching the lock/unlock icons in the bottom right corner of the screen (Figure 2). This setting requires administrator password entry.



Figure 2—Starting, stopping, and locking/unlocking fan groups

Configuring fan group settings

To adjust the settings for a group of fans in your BAFWorks system:

1. On the BAFWorks home screen, touch **Fans**.
2. Locate the fan group you want to work with, and then touch the **Detail Page** button for the group. The group details page appears (Figure 3).
3. Adjust the settings as necessary, and then touch **Done**. See Figure 3 below and the following pages for details.

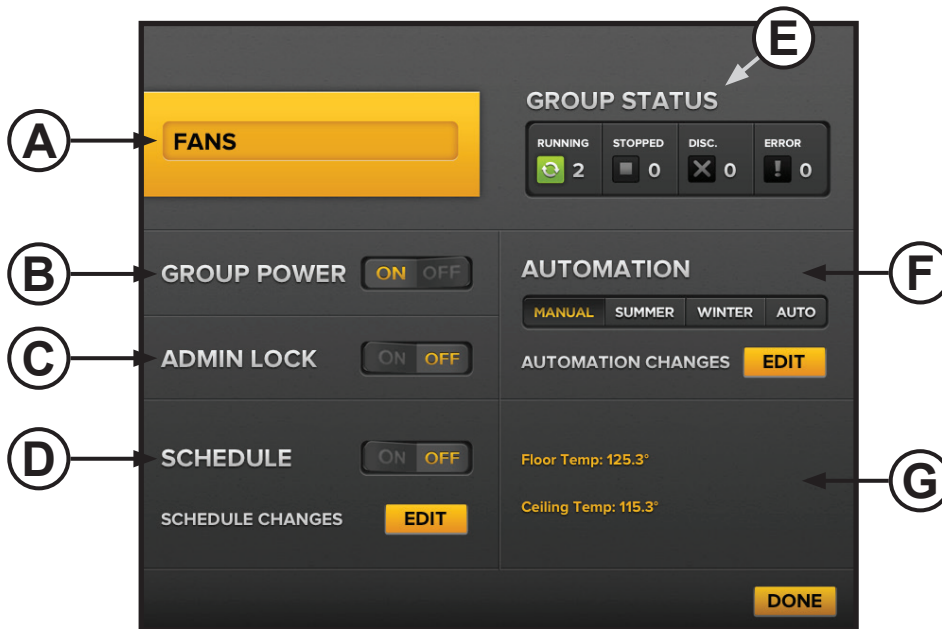


Figure 3—Fan group details page

- A. Group Name.** Touch here to edit the group name.
- B. Group Power.** Start or stop all fans in the group.
- C. Admin Lock.** Lock or unlock the operational status of all fans in the group. This setting requires administrator password entry.
- D. Schedule.** Touch **Edit** to schedule start, stop, speed change, and automation events for the group. Touch **On/Off** to enable or disable scheduled events. See page 6 for more information on scheduling.
- E. Group Status.** Indicates the operational status of each fan in the group. See page 4 for descriptions of each status icon.
- F. Automation.** Select Manual, Summer, Winter, or Auto mode. Touch **Edit** to configure temperature and sensor settings. See page 7 for more information on automation.
- G. Temperature.** Indicates the current temperature at the floor and ceiling levels as reported by the temperature sensors in the system.

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Fans (cont.)

Scheduling fan group events

The scheduling feature lets you schedule groups of fans to start, stop, change speed, or change automation modes at programmed times. See page 7 for more information on automation.

To schedule a fan group event:

1. On the BAFWorks® home screen, touch **Fans**.
2. Locate the fan group you want to work with, and then touch the **Detail Page** button for the group. The group details page appears.
3. Next to Schedule Changes, touch **Edit**. The scheduling page appears (Figure 4).
4. If necessary, at the bottom of the scheduling page, touch **Add New Event** (Figure 4).
5. Set the day(s) of the week on which the event will occur, the start time for the event, and the event action. If you selected **Set Fan Speed** as the action, use the plus (+) and minus (-) buttons to set the desired fan speed (Figure 4).
6. Touch **Save** under the event's settings.
7. If necessary, touch **Add New Event** at the bottom of the scheduling page to add more events. Configure the settings as described in step 5 above.
8. Touch **Save** under each event's settings.
9. If you want to make changes to an event, touch **Edit** under the event's settings. Touch **Delete** to delete the event. When you are finished, touch **Done** at the bottom of the scheduling page.
10. On the group details page, touch the **On** button next to **Schedule** to enable the scheduled event(s).
11. Touch **Done** at the bottom of the group details page.
12. Observe the fan group icon on the fan groups screen. Note that a calendar icon appears in the top right corner of the group icon, indicating that scheduling is enabled for the group (Figure 5).

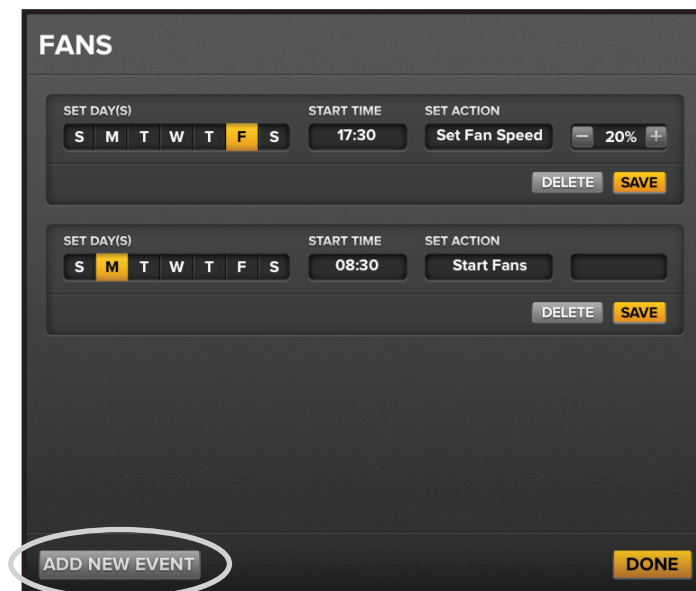


Figure 4—Fan scheduling page



Figure 5—Calendar icon on the fan group icon

Setting up fan group automation

The automation feature lets you automatically maintain optimal fan speed and temperature based on whether it is the cooling season or the heating season. Automation uses the temperature sensors connected to BAFWorks® to monitor the temperature at the floor and ceiling levels. Based on the temperature readings, the fan group speed is automatically adjusted to maintain your specified temperature settings.

To set up fan group automation:

1. On the BAFWorks home screen, touch **Fans**.
2. Locate the fan group you want to work with, and then touch the **Detail Page** button for the group. The group details page appears.
3. Under **Automation**, select an automation mode:
 - **Manual**. Lets you manually change the speed of the fans to suit your temperature needs. The fans will not adjust speed automatically.
 - **Summer**. During the cooling season, monitors the temperature at the floor level and adjusts the fan speed according to your specified temperature and speed settings.
 - **Winter**. During the heating season, monitors the difference in temperatures at the floor and ceiling levels and automatically adjusts the fan speed to maintain a uniform temperature between the floor and ceiling while using the lowest fan speed possible.
 - **Auto**. Combines the features of Summer and Winter modes and monitors the difference between the floor temperature and the Winter maximum temperature setting. If the floor temperature is less than the Winter maximum temperature, Winter Mode is used. If the floor temperature is greater than the Winter maximum temperature, Summer Mode is used.
4. Next to Automation Changes, touch **Edit**. The Fans Automation page appears (Figure 6).
5. Configure the settings, and then touch **Done**. See Figure 6 below for details.
6. Use the scheduling feature to specify when you want each automation mode to start. See page 6 for information on scheduling.
7. When you are finished, touch **Done** on the group details page.
8. Observe the fan group icon on the fan groups screen. Note that the group's current automation mode is indicated on the group icon (Figure 7 on the following page).

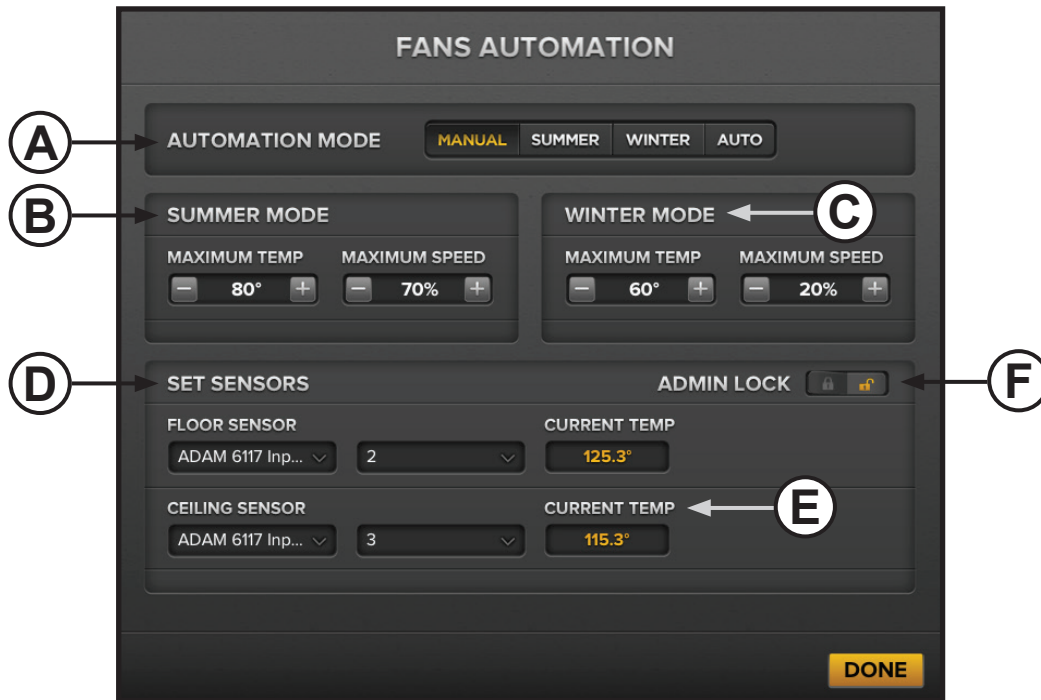


Figure 6—Fans Automation page

- A. Automation Mode.** Select the automation mode. See step 3 above for details.
- B. Summer Mode.** Set the maximum temperature (the temperature in °F at which the fan will reach full speed) and the maximum fan speed for the cooling season.
- C. Winter Mode.** Set the maximum temperature (the temperature in °F at which the fan will reach full speed) and the maximum fan speed for the heating season.
- D. Set Sensors.** Select the input module and port number of the floor temperature sensor and the ceiling temperature sensor. This information should be recorded on page 28 of this manual. If it is not, contact your installer.
- E. Current Temp.** Indicates the current temperature at the ceiling and floor levels as reported by the temperature sensors.
- F. Admin Lock.** Lock or unlock access to the automation settings. This setting requires administrator password entry.



Figure 7—Current automation mode on fan group icons

Using the remote operator station (optional)

Note: This section is applicable only if you have one or more remote operator stations installed with your BAFWorks® system.

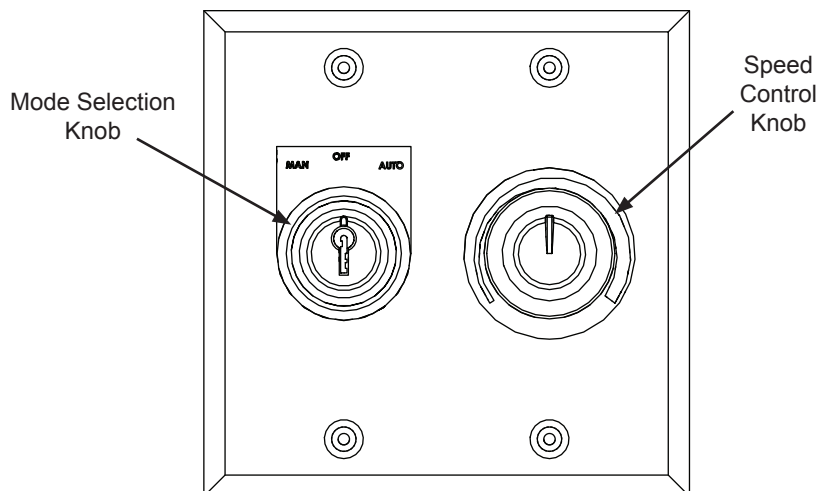
The remote operator station lets you switch between BAFWorks fan control and local fan control.

The remote operator station consists of a mode selection knob and a speed control knob. Use the provided key to turn the mode selection knob. **To prevent unauthorized access to the remote operator station, do not leave the key in the mode selection knob!**

To control the fan using the BAFWorks application, turn the mode selection knob to the AUTO position.

To start the fan locally, turn the mode selection knob to the MANUAL position. **To stop the fan locally** and lock it out, turn the mode selection knob to the OFF position. When the mode selection knob is turned to MANUAL or OFF, “local control” appears on the fan’s BAFWorks icon and you will not be able to control the fan using BAFWorks.

To adjust fan speed locally, make sure the mode selection knob is turned to the MANUAL position, and then rotate the speed control knob to the desired speed setting.



Lights

You can use BAFWorks® to configure settings for individual lights, as well as manage settings and schedules for groups of lights.

Configuring individual light settings

To adjust the settings for a light in your BAFWorks system:

1. On the BAFWorks home screen, touch **Lights** or **All Devices**.
2. If you touched **Lights**, touch the name of the light group containing the light you want to work with.
3. Select the light. The light settings page appears (Figure 1).
4. Adjust the settings as necessary, and then touch **Done**. See Figure 1 below for details.

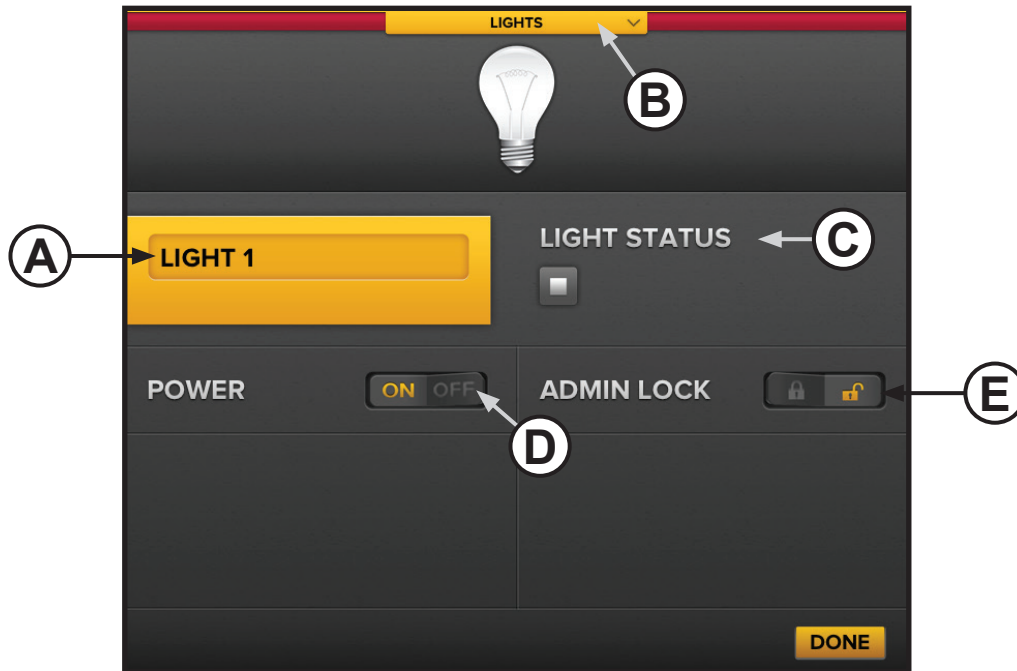


Figure 1—Light settings page

A. Light Name. Touch here to edit the light name.




B. Group Header. Indicates the group to which the light belongs. Touch the group header to assign the light to a different group.

C. Light Status. Indicates the light's operational status. See the table below for descriptions of each status icon.

D. Power. Turn the light on or off.

E. Admin Lock. Lock or unlock the light's operational status. This setting requires administrator password entry.

Light status icons

Icon	Description
	Light on, communication OK
	Light off, communication OK
	Communication loss, light status unknown

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Lights (cont.)

Turning light groups on and off

To turn a group of lights in your BAFWorks® system on or off:

1. On the BAFWorks home screen, touch **Lights**.
2. Touch the name of the light group you want to work with.
3. At the bottom of the screen, touch **Turn On Lights** or **Turn Off Lights** (Figure 2).

Note: You can also lock or unlock the operational status of the lights in the group by touching the lock/unlock icons in the bottom right corner of the screen (Figure 2). This setting requires administrator password entry.



Figure 2—Turning on/off and locking/unlocking light groups

Configuring light group settings

To adjust the settings for a group of lights in your BAFWorks system:

1. On the BAFWorks home screen, touch **Lights**.
2. Locate the light group you want to work with, and then touch the **Detail Page** button for the group. The group details page appears (Figure 3).
3. Adjust the settings as necessary, and then touch **Done**. See Figure 3 below and the following page for details.

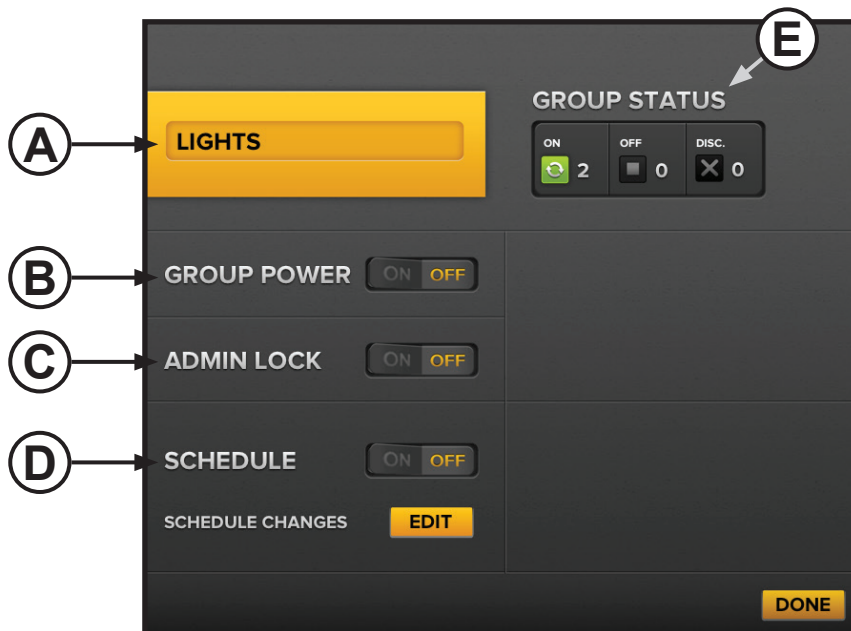


Figure 3—Light group details page

- A. Group Name.** Touch here to edit the group name.
- B. Group Power.** Turn all lights in the group on or off.
- C. Admin Lock.** Lock or unlock the operational status of all lights in the group. This setting requires administrator password entry.
- D. Schedule.** Touch **Edit** to schedule the lights in the group to turn on or off at programmed times. Touch **On/Off** to enable or disable scheduled events. See page 11 for more information on scheduling.
- E. Group Status.** Indicates the operational status of each light in the group. See page 9 for descriptions of each status icon.

Scheduling light group events

The scheduling feature lets you schedule groups of lights to turn on or off at programmed times.

To schedule a light group event:

1. On the BAFWorks® home screen, touch **Lights**.
2. Locate the light group you want to work with, and then touch the **Detail Page** button for the group. The group details page appears.
3. Next to Schedule Changes, touch **Edit**. The scheduling page appears (Figure 4).
4. If necessary, at the bottom of the scheduling page, touch **Add New Event** (Figure 4).
5. Set the day(s) of the week on which the event will occur, the start time for the event, and the event action (**Turn On Lights** or **Turn Off Lights**) (Figure 4).
6. Touch **Save** under the event's settings.
7. If necessary, touch **Add New Event** at the bottom of the scheduling page to add more events. Configure the settings as described in step 5 above.
8. Touch **Save** under each event's settings.
9. If you want to make changes to an event, touch **Edit** under the event's settings. Touch **Delete** to delete the event. When you are finished, touch **Done** at the bottom of the scheduling page.
10. On the group details page, touch the **On** button next to **Schedule** to enable the scheduled event(s).
11. Touch **Done** at the bottom of the group details page.
12. Observe the light group icon on the light groups screen. Note that a calendar icon appears in the top right corner of the group icon, indicating that scheduling is enabled for the group (Figure 5).

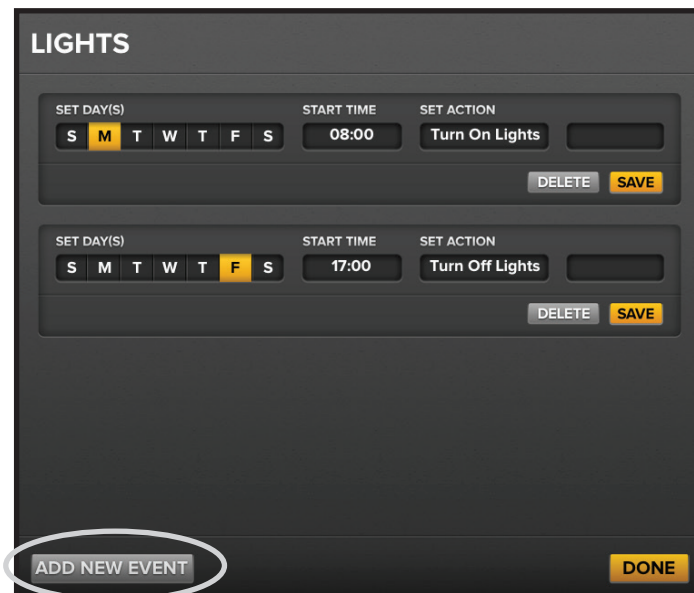


Figure 4—Lights scheduling page

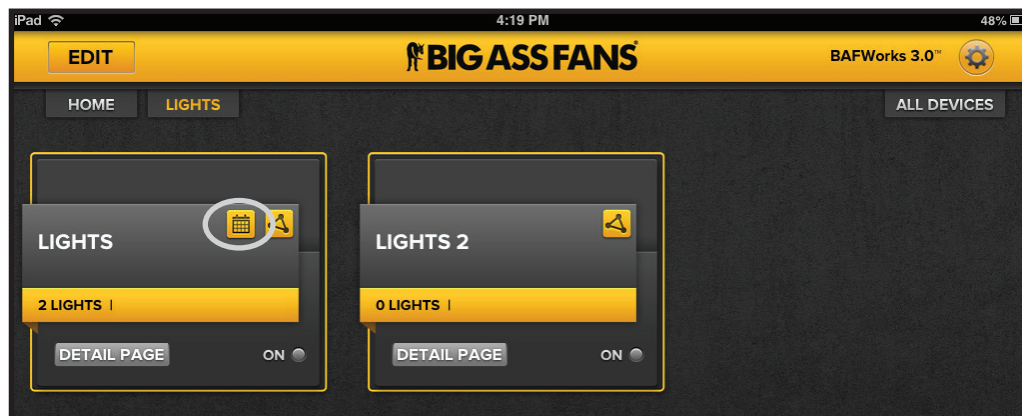


Figure 5—Calendar icon on the light group icon

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Ventilation

You can use BAFWorks® to configure settings for individual louvers and vents, as well as manage settings, schedules, and automation options for groups of louvers and vents.

Configuring individual louver and vent settings

To adjust the settings for a louver or vent in your BAFWorks system:

1. On the BAFWorks home screen, touch **Ventilation** or **All Devices**.
2. If you touched **Ventilation**, touch the name of the group containing the louver or vent you want to work with.
3. Select the louver or vent. The louver or vent settings page appears (Figure 1).
4. Adjust the settings as necessary, and then touch **Done**. See Figure 1 below for details.

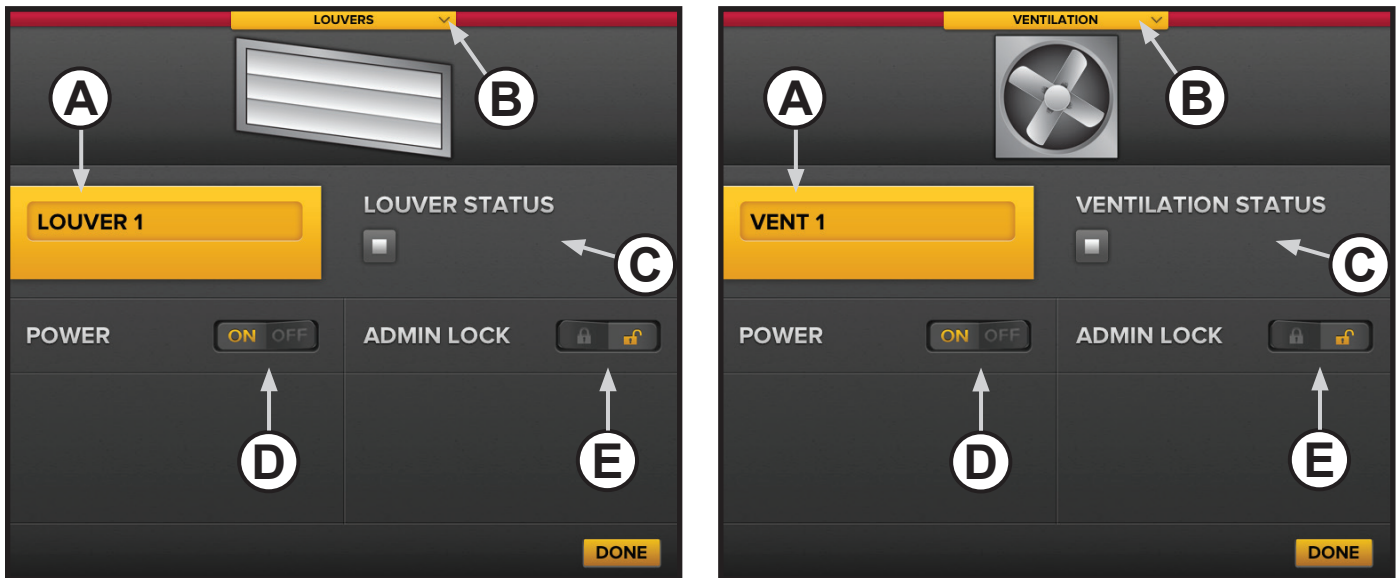





Figure 1–Louver and vent settings pages

- A. Name.** Touch here to edit the louver or vent name.
- B. Group Header.** Indicates the group to which the louver or vent belongs. Touch the group header to assign the louver or vent to a different group.
- C. Status.** Indicates the louver or vent's operational status. See the table below for descriptions of each status icon.
- D. Power.** Open or close the louver, or turn the vent on or off.
- E. Admin Lock.** Lock or unlock the louver or vent's operational status. This setting requires administrator password entry.

Louver and vent status icons

Icon	Description
	Louver open/vent running, communication OK
	Louver closed/vent stopped, communication OK
	Communication loss, louver/vent status unknown

Starting and stopping louver and vent groups

To start or stop a group of louvers or vents in your BAFWorks® system:

1. On the BAFWorks home screen, touch **Ventilation**.
2. Touch the name of the louver or vent group you want to work with.
3. At the bottom of the screen, touch **Open Louvers**, **Close Louvers**, **Turn On Ventilation**, or **Turn Off Ventilation** (Figure 2).

Note: You can also lock or unlock the operational status of the louvers/vents in the group by touching the lock/unlock icons in the bottom right corner of the screen (Figure 2). This setting requires administrator password entry.

Note: A vent group is shown on the right. For a louver group, the open/close and lock/unlock settings are in the same locations shown on the right.



Figure 2—Starting, stopping, and locking/unlocking vent groups

Configuring louver and vent group settings

To adjust the settings for a group of louvers or vents in your BAFWorks system:

1. On the BAFWorks home screen, touch **Ventilation**.
2. Locate the louver or vent group you want to work with, and then touch the **Detail Page** button for the group. The group details page appears (Figure 3).
3. Adjust the settings as necessary, and then touch **Done**. See Figure 3 below and the following pages for details.

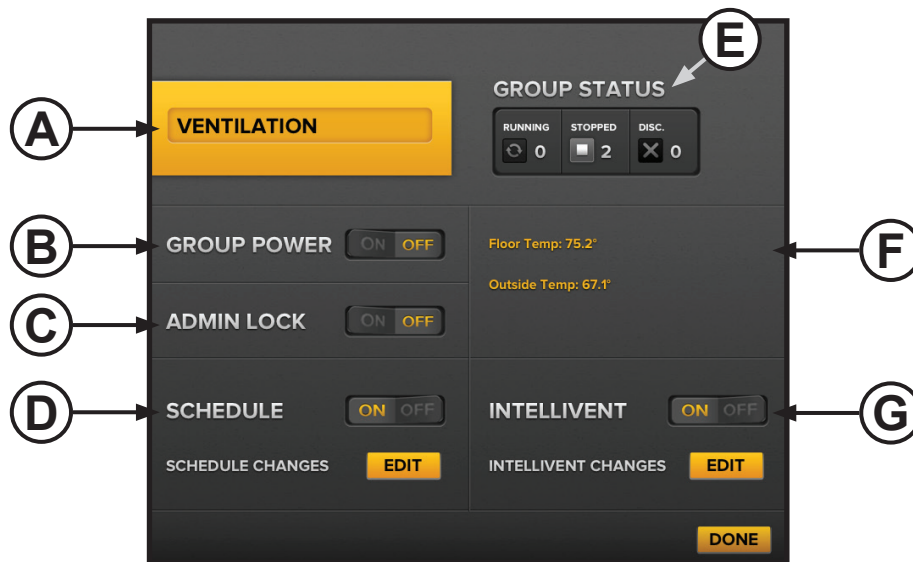


Figure 3—Louver/vent group details page

- A. Group Name.** Touch here to edit the group name.
- B. Group Power.** Open or close all louvers in the group, or turn all vents in the group on or off.
- C. Admin Lock.** Lock or unlock the operational status of all louvers or vents in the group. This setting requires administrator password entry.
- D. Schedule.** Touch **Edit** to schedule open/close, start/stop, and automation events for the group. Touch **On/Off** to enable or disable scheduled events. See page 14 for more information on scheduling.
- E. Group Status.** Indicates the operational status of each louver or vent in the group. See page 12 for descriptions of each status icon.
- F. Temperature.** Indicates the current indoor floor level temperature and the outdoor temperature as reported by the temperature sensors in the system.
- G. IntelliVent®.** Touch **Edit** to configure ventilation automation settings. Touch **On/Off** to enable or disable automation. See page 15 for more information on automation.

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Ventilation (cont.)

Scheduling louver and vent group events

The scheduling feature lets you schedule groups of louvers or vents to open/close, start/stop, or begin/end automation at programmed times. See page 15 for more information on automation.

To schedule a louver or vent group event:

1. On the BAFWorks® home screen, touch **Ventilation**.
2. Locate the louver or vent group you want to work with, and then touch the **Detail Page** button for the group. The group details page appears.
3. Next to Schedule Changes, touch **Edit**. The scheduling page appears (Figure 4).
4. If necessary, at the bottom of the scheduling page, touch **Add New Event** (Figure 4).
5. Set the day(s) of the week on which the event will occur, the start time for the event, and the event action.
6. Touch **Save** under the event's settings.
7. If necessary, touch **Add New Event** at the bottom of the scheduling page to add more events. Configure the settings as described in step 5 above.
8. Touch **Save** under each event's settings.
9. If you want to make changes to an event, touch **Edit** under the event's settings. Touch **Delete** to delete the event. When you are finished, touch **Done** at the bottom of the scheduling page.
10. On the group details page, touch the **On** button next to **Schedule** to enable the scheduled event(s).
11. Touch **Done** at the bottom of the group details page.
12. Observe the louver or vent group icon on the ventilation groups screen. Note that a calendar icon appears in the top right corner of the group icon, indicating that scheduling is enabled for the group (Figure 5).

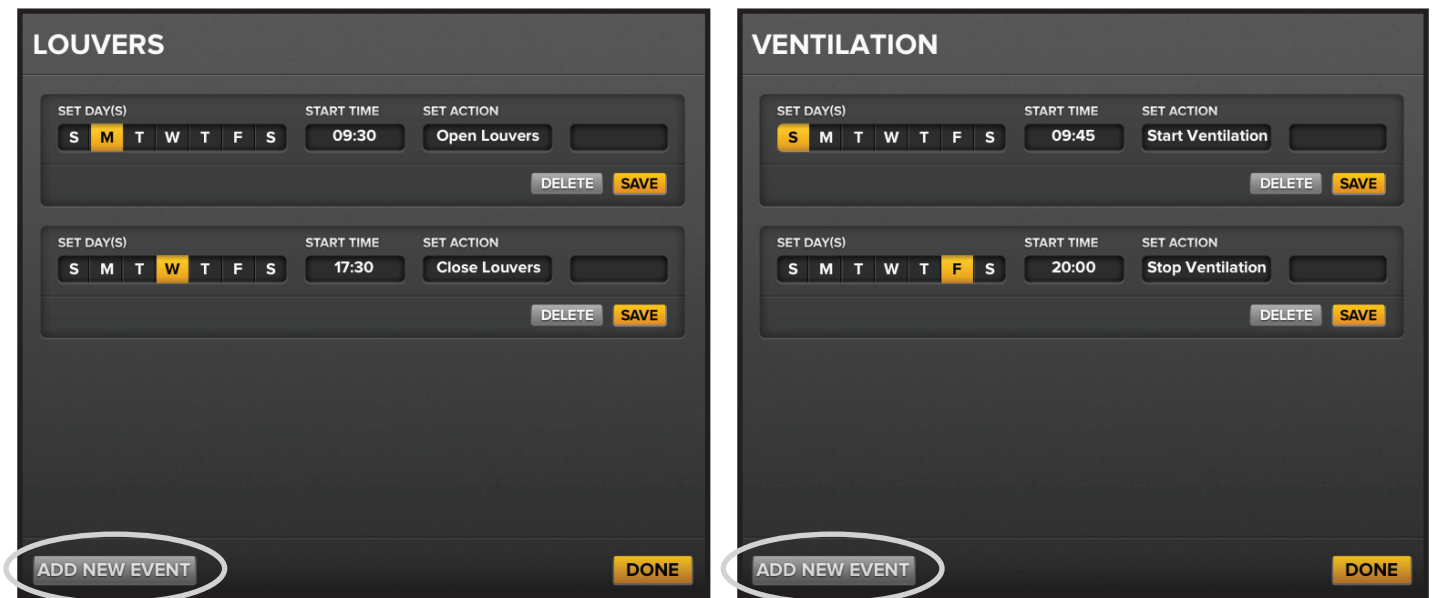


Figure 4–Louver and vent scheduling pages

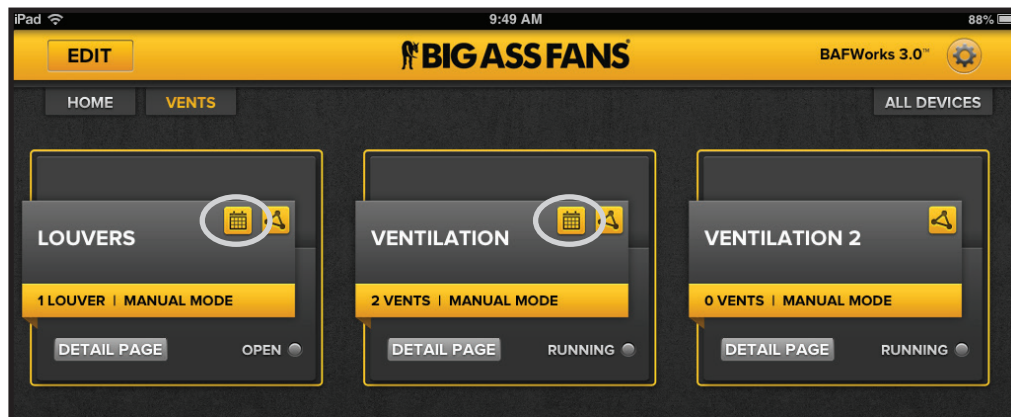


Figure 5–Calendar icons on the louver and vent group icons

Setting up louver and vent group automation

The IntelliVent® automation feature lets you specify a maximum indoor winter temperature and automatically starts ventilation when this setpoint is exceeded and shuts down ventilation when the setpoint is reached. IntelliVent also lets you specify a minimum outdoor temperature and will not run ventilation if the outdoor temperature is below this value. IntelliVent uses the temperature sensors connected to BAFWorks® to monitor the outdoor temperature and the indoor floor level temperature. Based on the temperature readings, the louvers or vents in the group automatically open and close or start and stop to maintain your specified temperature settings.

To set up louver or vent group automation:

1. On the BAFWorks home screen, touch **Ventilation**.
2. Locate the louver or vent group you want to work with, and then touch the **Detail Page** button for the group. The group details page appears.
3. Next to IntelliVent Changes, touch **Edit**. The Louvers IntelliVent Settings or Ventilation IntelliVent Settings page appears (Figure 6). *Note: The Ventilation IntelliVent Settings page is shown in Figure 6. The settings are the same for louvers.*
4. Configure the settings, and then touch **Done**. See Figure 6 below for settings details.
5. On the group details page, touch the **On** button next to IntelliVent to enable automation, or use the scheduling feature to schedule automation to start and stop at programmed times. See page 14 for information on scheduling.
6. When you are finished, touch **Done** on the group details page.

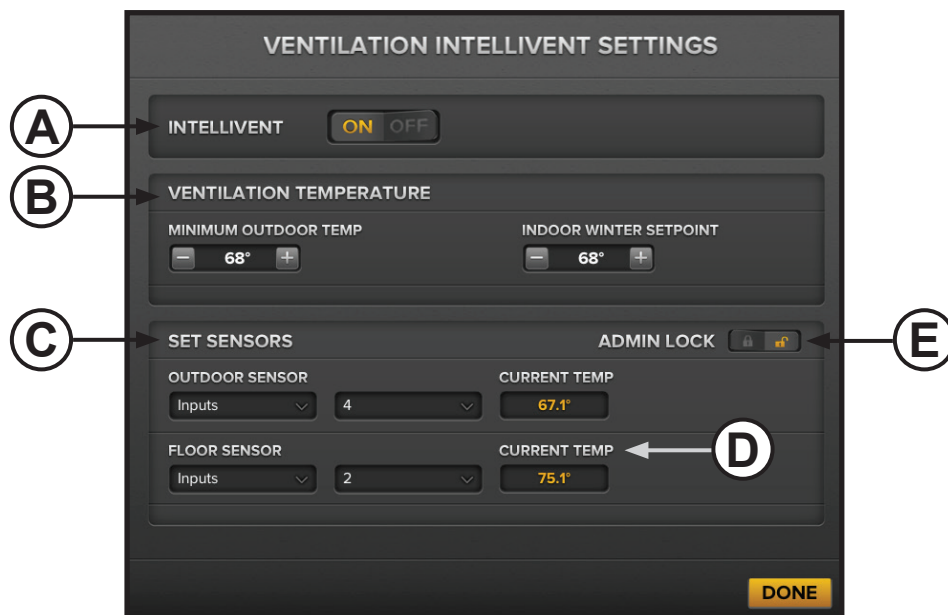


Figure 6—Ventilation IntelliVent Settings page

- A. IntelliVent.** Turn ventilation automation on or off.
- B. Ventilation Temperature.** Set the minimum outdoor temperature and the indoor winter setpoint (°F).
- **Minimum Outdoor Temp.** Set the minimum outdoor temperature at which ventilation will run. If the outdoor temperature is below this value, ventilation will not run, even if the indoor temperature exceeds the Indoor Winter Setpoint value.
 - **Indoor Winter Setpoint.** Set the maximum indoor winter temperature. If the indoor temperature exceeds this value and the outdoor temperature is at least two (2) degrees cooler than the indoor temperature, ventilation will run. If the indoor temperature is below this value or the outdoor temperature is below the Minimum Outdoor Temp value, ventilation will not run.
- C. Set Sensors.** Select the input module and port number of the outdoor temperature sensor and the indoor floor temperature sensor. This information should be recorded on page 28 of this manual. If it is not, contact your installer.
- D. Current Temp.** Indicates the current outdoor temperature and the indoor floor level temperature as reported by the temperature sensors in the system.
- E. Admin Lock.** Lock or unlock access to the IntelliVent settings. This setting requires administrator password entry.

16 System Administration

The following sections detail administrative and setup tasks that were completed by the installer. Refer to these instructions if there is a problem with the system or if you need to add, configure, or troubleshoot system components.

Obtaining system information

Prior to setting up or administering your BAFWorks® system, ensure you have obtained all necessary system information from the installer. Ensure all of the following information is recorded on pages 27–28 of this manual:

- **BAFWorks admin password.** This is needed to access administrative functions within the BAFWorks application. The default password is 1271. See page 24 for instructions on changing the password.
- **Fan Modbus addresses.** The installer will assign each fan in the system a unique address (1–32).
- **Fan drive types.** You will need to specify each fan's drive type when adding fans to the system.
- **Input/output module IP addresses and port numbers used.** Input and output modules are used to connect lights, vents/louvers, and temperature sensors to the system.
- **Device/temperature sensor types and port numbers.** Each light, louver, and vent in the system is connected to a port on an output module. Each temperature sensor (indoor floor, indoor ceiling, or outdoor) is connected to a port on an input module.

Ensure you also have all other important system information recorded on pages 27–28, including the BAF gateway IP address, Wi-Fi login information, and Apple® account login information. If this information was not recorded in this manual, contact your installer.

Adding output and input modules

Note: These steps are required only if you have lights, vents/louvers, or temperature sensors in your BAFWorks® system.

Each light, louver, and vent in the BAFWorks system is connected to an ADAM 6160 output module, and each temperature sensor in the system is connected to an ADAM 6117 input module. Before you can add lights, louvers, vents, and sensors to the system, you must add the output and input modules to the system and configure them.

To add and configure an ADAM 6160 output module:

1. In the top left corner of any screen of the BAFWorks application, touch **Edit**.
2. Enter the admin lock password, and then touch **OK**. *Note: The default admin lock password is 1271. See page 24 for instructions on changing the password.*
3. In the top left corner of the screen, touch **Modules** (Figure 1). The All Modules page appears (Figure 2).
4. If necessary, at the bottom of the All Modules page, touch **Add Module** (Figure 2).
5. Enter a name for the module, select the module type (**ADAM 6160**), and enter the module's IP address (Figure 2). Your module IP addresses should be recorded on page 28 of this manual.
6. Touch **Save** under the output module's settings.
7. If you want to make changes to the module, touch **Edit** under the module's settings. Touch **Delete** to delete the module.
8. Touch **Done** at the bottom of the All Modules page, and then touch **Exit** in the top left corner of the screen.



Figure 1—Modules button

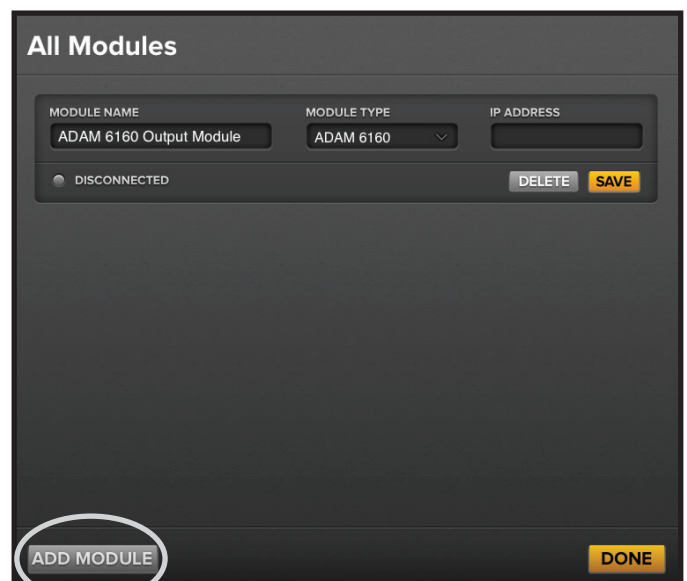


Figure 2—All Modules page

To add and configure an ADAM 6117 input module:

1. In the top left corner of any screen of the BAFWorks® application, touch **Edit**.
2. Enter the admin lock password, and then touch **OK**. *Note: The default admin lock password is 1271. See page 24 for instructions on changing the password.*
3. In the top left corner of the screen, touch **Modules** (Figure 1 on the previous page). The All Modules page appears (Figure 3).
4. If necessary, at the bottom of the All Modules page, touch **Add Module** (Figure 3).
5. Enter a name for the module, select the module type (**ADAM 6117**), and enter the module's IP address (Figure 3). Your module IP addresses should be recorded on page 28 of this manual.
6. Touch **Save** under the module name, and then touch **Edit > Add Sensors**. The Add Sensors page appears (Figure 4).
7. If necessary, at the bottom of the Add Sensors page, touch **Add Sensor** (Figure 4).
8. Enter the temperature sensor's port number, and then fill in the Min Reading and Max Reading fields (Figure 4) according to the table below. Your port numbers and signal types should be recorded on page 28 of this manual.

Signal type	Min reading	Max reading
0–10V	32768	65533
0–5V	32768	49152
4–20mA	0	65533

9. Fill in the Min Value and Max Value fields (Figure 4) according to the table below. Your sensor types should be recorded on page 28 of this manual. *Note: The values shown below will vary if you are using customer-supplied sensors instead of the sensors provided by Big Ass Solutions. Consult the literature provided with the customer-supplied sensors for the min and max values.*

Sensor type	Min value	Max value
Indoor (floor/ceiling)	0°F	135°F
Outdoor	-13°F	167°F

10. Touch **Save** under the sensor's settings.
11. If necessary, touch **Add Sensor** at the bottom of the Add Sensors page to add more temperature sensors. Configure the settings as described in steps 8 and 9 above.
12. Touch **Save** under each sensor's settings.
13. If you want to make changes to a sensor, touch **Edit** under the sensor's settings. Touch **Delete** to delete the sensor. When you are finished, touch **Done** at the bottom of the Add Sensors page.
14. On the All Modules page, touch **Save** under the input module's settings.
15. If you want to make changes to the module, touch **Edit** under the module's settings. Touch **Delete** to delete the module.
16. Touch **Done** at the bottom of the All Modules page, and then touch **Exit** in the top left corner of the screen.

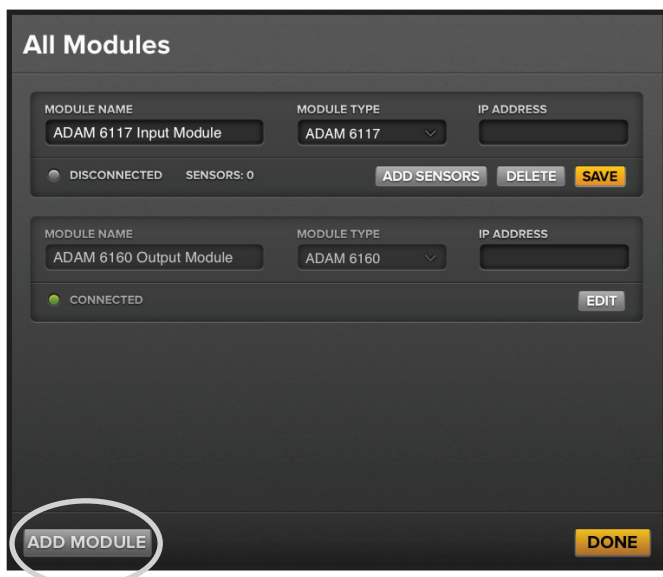


Figure 3—All Modules page

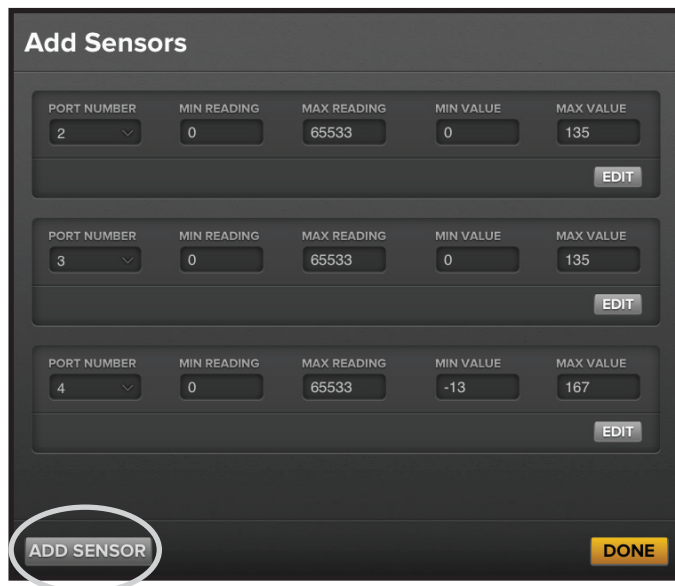


Figure 4—Add Sensors page

18

System Administration (cont.)

Adding and deleting fans and fan groups

Each fan in the BAFWorks® system must belong to a group. The application starts with a default group called “Fans.” You can add fans to this group or create new groups.

To add a fan to a group:

1. On the BAFWorks home screen, touch **Fans**.
2. Touch the name of the fan group to which you want to add the fan.
3. In the top left corner of the screen, touch **Edit**.
4. Enter the admin lock password, and then touch **OK**. *Note: The default admin lock password is 1271. See page 24 for instructions on changing the password.*
5. At the top of the screen, touch **Add**.
6. In the Identify Device dialog box (Figure 5), enter the fan’s Modbus address and select the fan’s drive type. Your fan addresses and drive types should be recorded on page 27 of this manual.
7. Touch **Verify**.
8. In the Your Fan Is Verified dialog box (Figure 6), enter a name for the fan, select the fan model, and specify the fan group. If you want to create a new group, select **Create Group** from the **Select Group** drop-down list, and then enter a group name, select the group type (**Fans**), and touch **Save**.
9. Touch **Add**, and then touch **Exit** in the top left corner of the screen. The new fan appears on the fan group screen.

See below for instructions on deleting fans. See page 19 for instructions on adding and deleting fan groups.



Figure 5—Identify Device dialog box

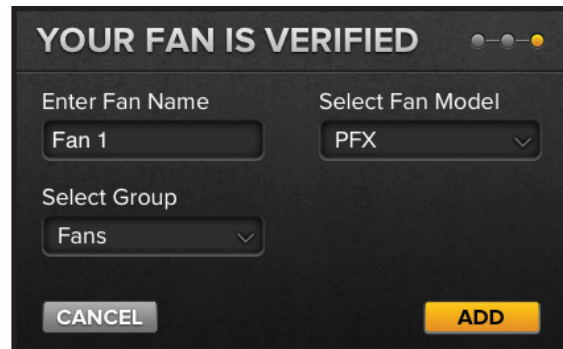


Figure 6—Your Fan is Verified dialog box

Deleting fans

To delete a fan:

1. On the BAFWorks home screen, touch **Fans**.
2. Touch the name of the fan group containing the fan you want to delete.
3. In the top left corner of the screen, touch **Edit**.
4. Enter the admin lock password, and then touch **OK**. *Note: The default admin lock password is 1271. See page 24 for instructions on changing the password.*
5. Touch the **X** icon(s) next to the fan(s) you want to delete (Figure 7).
6. In the top left corner of the screen, touch **Exit**.



Figure 7—Deleting fans

Adding and deleting fan groups

You can only delete empty fan groups. You must delete all fans from a group or move the fans to a different group before you can delete the group. To move a fan to a different group, select the fan, and then choose a group from the drop-down header at the top of the fan settings page (see page 4). For instructions on deleting fans, see page 18.

To add a fan group:

1. On the BAFWorks® home screen, touch **Fans**.
2. In the top left corner of the screen, touch **Edit**.
3. Enter the admin lock password, and then touch **OK**. *Note: The default admin lock password is 1271. See page 24 for instructions on changing the password.*
4. At the top of the screen, touch **Add** (Figure 8).
5. In the Create New Group dialog box, enter a name for the new group, and then select **Fans** for the group type.
6. Touch **Save**. The new group appears on the fan groups screen.
7. In the top left corner of the screen, touch **Exit**.

To delete a fan group:

1. On the BAFWorks home screen, touch **Fans**.
2. In the top left corner of the screen, touch **Edit**.
3. Enter the admin lock password, and then touch **OK**. *Note: The default admin lock password is 1271. See page 24 for instructions on changing the password.*
4. Touch the **X** icon(s) next to the fan group(s) you want to delete (Figure 8).
5. In the top left corner of the screen, touch **Exit**.



Figure 8—Adding and deleting fan groups

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System Administration (cont.)

Adding and deleting lights and light groups

Each light in the BAFWorks® system must belong to a group. The application starts with a default group called “Lights.” You can add lights to this group or create new groups.

To add a light to a group:

1. On the BAFWorks home screen, touch **Lights**.
2. Touch the name of the light group to which you want to add the light.
3. In the top left corner of the screen, touch **Edit**.
4. Enter the admin lock password, and then touch **OK**. *Note: The default admin lock password is 1271. See page 24 for instructions on changing the password.*
5. At the top of the screen, touch **Add**.
6. In the Add Light dialog box (Figure 9), enter a name for the light, and then select the output module and port number that the light is connected to. Your output module and port number information should be recorded on page 28 of this manual.
7. Touch **Save**, and then touch **Exit** in the top left corner of the screen. The new light appears on the light group screen.

See below for instructions on deleting lights. See page 21 for instructions on adding and deleting light groups.

Figure 9–Add Light dialog box

Deleting lights

To delete a light:

1. On the BAFWorks home screen, touch **Lights**.
2. Touch the name of the light group containing the light you want to delete.
3. In the top left corner of the screen, touch **Edit**.
4. Enter the admin lock password, and then touch **OK**. *Note: The default admin lock password is 1271. See page 24 for instructions on changing the password.*
5. Touch the **X** icon(s) next to the light(s) you want to delete (Figure 10).
6. In the top left corner of the screen, touch **Exit**.



Figure 10–Deleting lights

Adding and deleting light groups

You can only delete empty light groups. You must delete all lights from a group or move the lights to a different group before you can delete the group. To move a light to a different group, select the light, and then choose a group from the drop-down header at the top of the light settings page (see page 9). For instructions on deleting lights, see page 20.

To add a light group:

1. On the BAFWorks® home screen, touch **Lights**.
2. In the top left corner of the screen, touch **Edit**.
3. Enter the admin lock password, and then touch **OK**. *Note: The default admin lock password is 1271. See page 24 for instructions on changing the password.*
4. At the top of the screen, touch **Add** (Figure 11).
5. In the Create New Group dialog box, enter a name for the new group, and then select **Lights** for the group type.
6. Touch **Save**. The new group appears on the light groups screen.
7. In the top left corner of the screen, touch **Exit**.

To delete a light group:

1. On the BAFWorks home screen, touch **Lights**.
2. In the top left corner of the screen, touch **Edit**.
3. Enter the admin lock password, and then touch **OK**. *Note: The default admin lock password is 1271. See page 24 for instructions on changing the password.*
4. Touch the **X** icon(s) next to the light group(s) you want to delete (Figure 11).
5. In the top left corner of the screen, touch **Exit**.

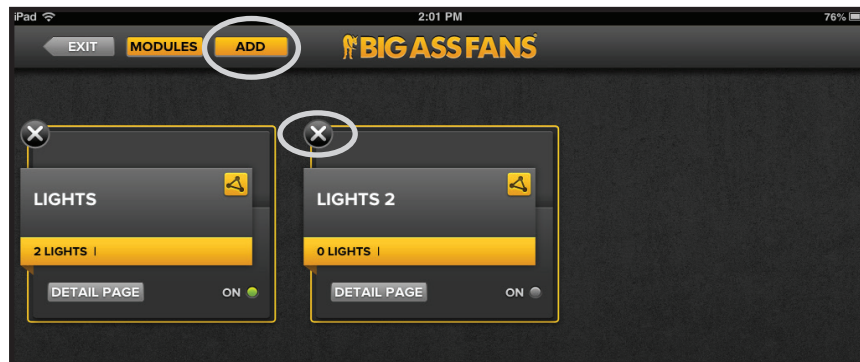


Figure 11—Adding and deleting light groups

Adding and deleting louvers/vents and louver/vent groups

Each louver and vent in the BAFWorks® system must belong to a group. The application starts with default groups called “Louvers” and “Ventilation.” You can add louvers and vents to these groups or create new groups. *Note: If vent exhaust fans and louvers are controlled independently, leave both default groups in place. If louvers are piloted off of the existing exhaust fan motor starters, you can delete the default Louvers group. See page 23 for instructions on adding and deleting groups.*

To add a louver or vent to a group:

1. On the BAFWorks home screen, touch **Ventilation**.
2. Touch the name of the louver or ventilation group to which you want to add the louver or vent.
3. In the top left corner of the screen, touch **Edit**.
4. Enter the admin lock password, and then touch **OK**. *Note: The default admin lock password is 1271. See page 24 for instructions on changing the password.*
5. At the top of the screen, touch **Add**.
6. In the Add Louver or Add Ventilation dialog box (Figure 12), enter a name for the louver or vent, and then select the output module and port number that the louver/vent is connected to. Your output module and port number information should be recorded on page 28 of this manual.
7. Touch **Save**, and then touch **Exit** in the top left corner of the screen. The new louver or vent appears on the louver or ventilation group screen.

See below for instructions on deleting louvers and vents. See page 23 for instructions on adding and deleting louver/vent groups.

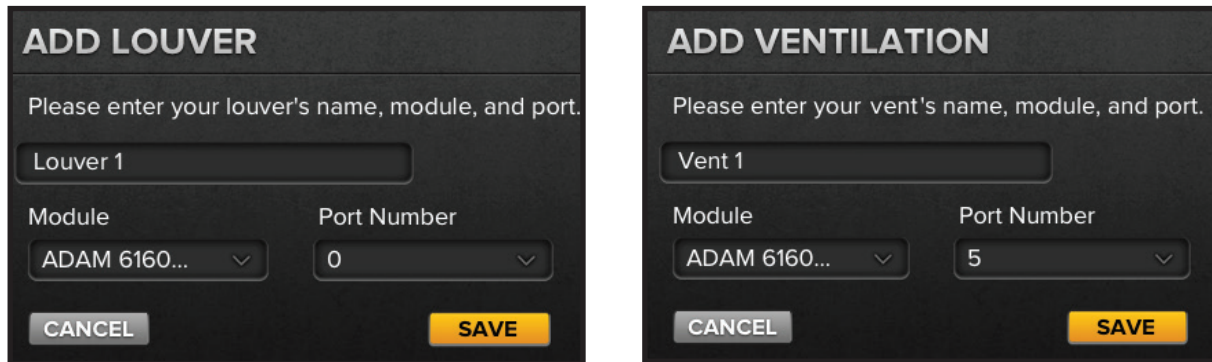


Figure 12—Add Louver and Add Ventilation dialog boxes

Deleting louvers and vents

To delete a louver or vent:

1. On the BAFWorks home screen, touch **Ventilation**.
2. Touch the name of the group containing the louver or vent you want to delete.
3. In the top left corner of the screen, touch **Edit**.
4. Enter the admin lock password, and then touch **OK**. *Note: The default admin lock password is 1271. See page 24 for instructions on changing the password.*
5. Touch the **X** icon(s) next to the louver(s) or vent(s) you want to delete (Figures 13 and 14).
6. In the top left corner of the screen, touch **Exit**.



Figure 13—Deleting louvers

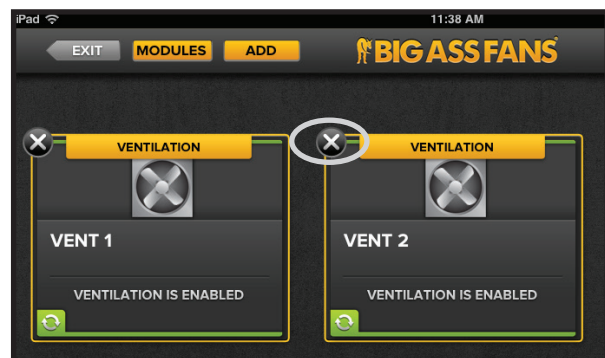


Figure 14—Deleting vents

Adding and deleting louver/vent groups

You can only delete empty louver/vent groups. You must delete all louvers or vents from a group or move them to a different group before you can delete the group. To move a louver or vent to a different group, select the louver or vent, and then choose a group from the drop-down header at the top of the louver/vent settings page (see page 12). For instructions on deleting louvers and vents, see page 22.

To add a louver or vent group:

1. On the BAFWorks® home screen, touch **Ventilation**.
2. In the top left corner of the screen, touch **Edit**.
3. Enter the admin lock password, and then touch **OK**. *Note: The default admin lock password is 1271. See page 24 for instructions on changing the password.*
4. At the top of the screen, touch **Add** (Figure 15).
5. In the Create New Group dialog box, enter a name for the new group, and then select **Louvers** or **Ventilation** for the group type.
6. Touch **Save**. The new group appears on the ventilation groups screen.
7. In the top left corner of the screen, touch **Exit**.

To delete a louver or vent group:


1. On the BAFWorks home screen, touch **Ventilation**.
2. In the top left corner of the screen, touch **Edit**.
3. Enter the admin lock password, and then touch **OK**. *Note: The default admin lock password is 1271. See page 24 for instructions on changing the password.*
4. Touch the **X** icon(s) next to the louver/vent group(s) you want to delete (Figure 15).
5. In the top left corner of the screen, touch **Exit**.



Figure 15—Adding and deleting louver/vent groups

Configuring general settings

To configure the general settings for BAFWorks®:

1. In the top right corner of any screen of the BAFWorks application, touch .
2. Enter the admin lock password, and then touch **OK**. *Note: The default admin lock password is 1271. See below for instructions on changing the password.*
3. Configure the settings as needed. See below for details.
4. Touch **Done**.

BAFWorks® general settings

- **Lock Password.** Change the admin lock password used to access administrative functions within BAFWorks.
- **Screensaver.** Enable or disable the BAFWorks screensaver.
- **IP Address.** View or edit the IP address of the BAF gateway. *Note: The BAF gateway is located inside the wall mounting bracket.*
- **Manuals.** Access a BAFWorks tutorial and online fan manuals. *Note: Internet access is required to view the online fan manuals.*
- **Smart Algorithms.** Adjust how often (in seconds) the temperature sensors in the system read the temperature. *Note: Decreasing the default time values in these fields may result in undesirable fan operation; for example, the fans may turn on and off too often.*
 - **Auto.** Adjust how often the temperature is read when fan groups are in Auto mode.
 - **Winter.** Adjust how often the temperature is read when fan groups are in Winter mode.
 - **Summer.** Adjust how often the temperature is read when fan groups are in Summer mode.
 - **Automation.** Adjust how often the temperature is read for louver and vent groups.

Viewing fan diagnostic information

To view a fan's diagnostic information, swipe your finger downward over a fan icon. Detailed diagnostics information is displayed on top of the fan icon (Figure 16). You can scroll up and down through the information with your finger.

Press and hold your finger on the diagnostics text to select all of the text and copy it. The information can then be pasted into Notepad or into an e-mail for diagnostics assistance. *Note: Sending e-mail from the iPad® mobile digital device requires an Internet connection and an active e-mail account.*

When you are finished, touch **Done** in the bottom right corner of the fan icon.



Figure 16–Fan diagnostics information

Understanding fire alarm trip system behavior

If your fans have been properly interfaced with a fire alarm system, a fire alarm trip, known as an External Fault, will shut down all of the fans. The first fan to initiate an ALL STOP command will be registered on the BAFWorks screen as shown on the right (Figure 17).

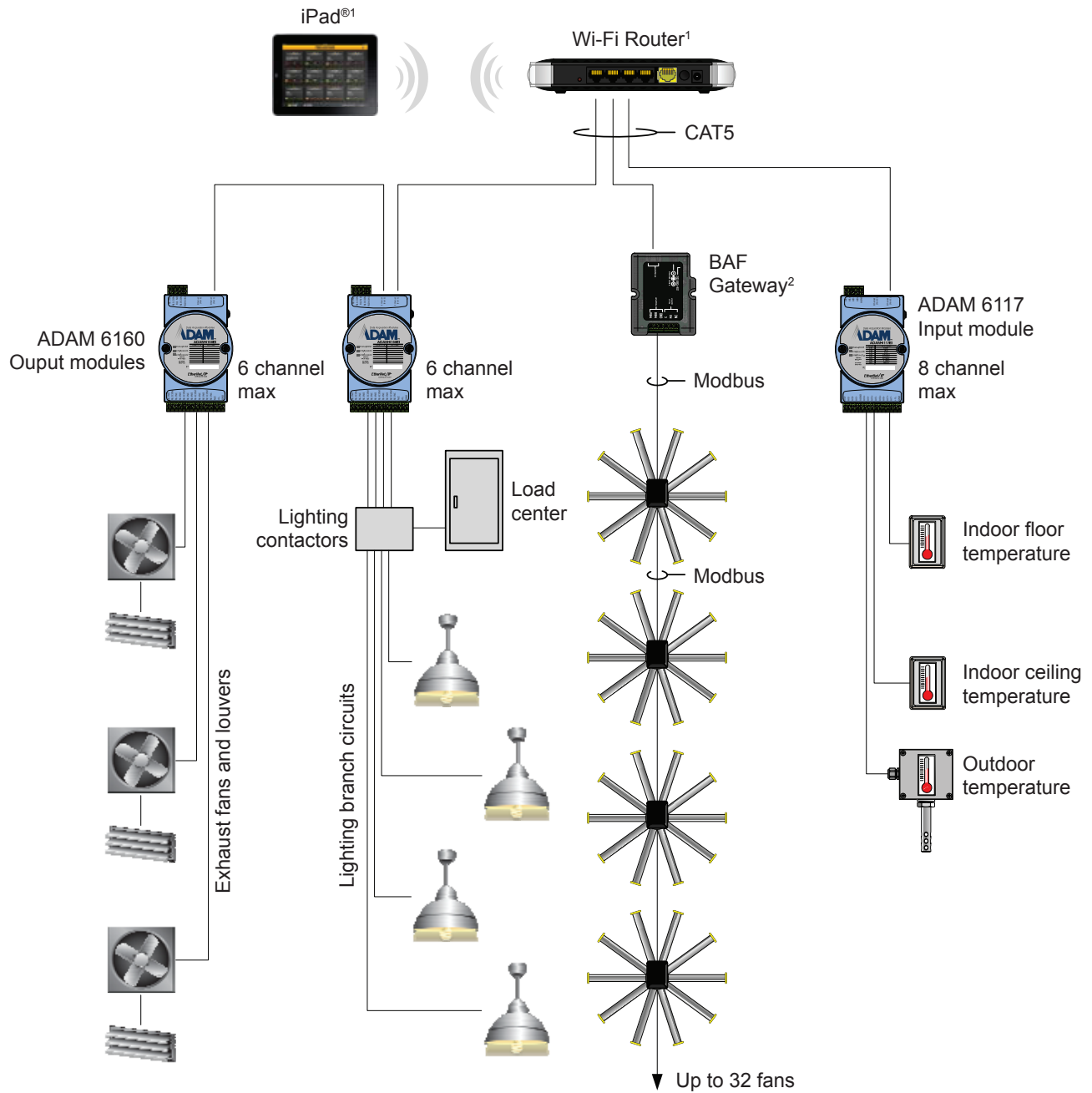
Before the fans can be returned to operation, the fire alarm relay contact must be opened. You can then touch **Clear** as shown on the right and restart the fans. If you touch **Clear** before resetting the alarm contacts, the system will immediately return to fire alarm trip mode after a fan address scan.



Figure 17–Fire stop error

BAFWorks® system diagram

The diagram below shows a typical BAFWorks® installation with fans, lights, exhaust fans and louvers, and temperature sensors.



1. The iPad and Wi-Fi router are located inside the wall mounting bracket. The Wi-Fi link must be dedicated to the iPad, as this is your only means of fan control unless a remote operator station is installed. *Big Ass Solutions does not recommend removing the iPad from the mounting bracket. This will leave you without a means of fan control if the Wi-Fi signal is lost or if the iPad itself is lost.*
2. The BAF gateway is connected locally to the Wi-Fi router.

BAFWorks® Setup Notes

iPad® Unlock Password: _____

BAF Gateway Address: _____

Apple® User ID: _____

Apple® Password: _____

Router Login: 192.168.1.1 _____

Router Login User ID: admin _____

Router Login Password: _____
(default = password)

Router Login PIN: _____
(PIN is on underside of router)

Wi-Fi SSID: _____
(default = NETGEAR)

Wi-Fi Passphrase: _____
(no default)

BAFWorks® Admin Password: _____
(default = 1271)

Fan Modbus address	Fan name	Fan location	Fan drive type
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
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Troubleshooting

For questions about your product or customer service inquiries, please call our toll free number (877-BIG-FANS).

Some issues can be resolved before requesting service. Review the below troubleshooting tips before contacting Customer Service or your installer for support.

Symptom	Possible solution(s)
<i>The BAFWorks® application stops running and the iPad® returns to the home screen.</i>	<ul style="list-style-type: none"> Touch the BAFWorks icon on the iPad home screen to restart the application. If the issue persists, contact your installer, or contact Big Ass Solutions Customer Service for assistance.
<i>The BAFWorks application screen locks up.</i>	<ul style="list-style-type: none"> Press the Home button on the iPad to return to the home screen, and then touch the BAFWorks icon to restart the application. If the issue persists, contact your installer, or contact Big Ass Solutions Customer Service for assistance.
<i>“Unable to identify device” error while adding a fan</i>	<ul style="list-style-type: none"> Make sure you have the correct Modbus address and drive type for the fan you are trying to add. This information should be recorded on page 27 of this manual. If it is not, contact your installer.
<p><i>Communication loss between BAFWorks and devices</i></p> <p>The green and orange network activity indicators in the bottom left corner of the BAFWorks application screen (see item C on page 2) should blink on and off in a regular rhythm. If you do not observe a regular rhythm of RX (green) and TX (orange), communication has been lost between BAFWorks and your devices.</p>	<p>Verify the following:</p> <ul style="list-style-type: none"> All components are plugged in The fan controllers are programmed properly (address, protocol, etc.) Resistors and cables are installed correctly, and cables do not exceed distance limitations. Contact your installer, or contact Big Ass Solutions Customer Service for assistance.
<p><i>Communication loss between the iPad and the BAF gateway/Wi-Fi router</i></p> <p>The yellow network activity indicators in the bottom left corner of the BAFWorks application screen (see item C on page 2) confirm the connection between the iPad and the Wi-Fi router. If the top two indicators are not yellow, communication has been lost between the iPad and the router.</p>	<p>Verify the following:</p> <ul style="list-style-type: none"> The iPad is being directed to your router/gateway combination. This can be verified on the iPad under Settings > Wi-Fi > Choose a Network. The router settings and iPad Wi-Fi configuration are correct. Contact your installer, or contact Big Ass Solutions Customer Service for assistance.

Ports used by ADAM modules on corporate networks

If you are running BAFWorks® using a corporate network instead of the provided Wi-Fi router, the network firewall, wireless controller, or other network component may block UDP/TCP traffic. If this occurs, the ADAM modules will not be able to communicate with the BAFWorks system. When troubleshooting communications issues on a corporate network, note the following ports used by the ADAM modules for UDP/TCP communication.

UDP/TCP ports used by ADAM modules (initial mode)

Function	Protocol	Port
UDP ASCII communication	UDP	1025
Datastream	UDP	5168
GCL IO message	UDP	5168
P2P message	UDP	1025
Search engine	UDP	5048
TCP ASCII/Modbus communication	TCP	502
Download	TCP	5450
Download Adam6024	TCP	7000

When the ADAM modules are in normal mode, they follow the standard of Ethernet/IP. TCP port number 44818 is used for explicit messaging and UDP port number 2222 is used for implicit messaging.

Warranty Return Instructions

Congratulations on your purchase of BAFWorks®! We are delighted that you have chosen our product to improve the quality of your indoor environment, and hope you'll have much pleasure using the control system for years to come.

Replacement of products under warranty return instructions

If you believe a part failed during normal operation and is covered under warranty, Big Ass Solutions will ship a replacement part to you pursuant to your notice that you will be replacing the original part within 10 days. The replacement part will be shipped to you prior to our receipt of the item that failed, and prior to our evaluation of this part to determine the reasons for its failure and whether it is covered under warranty.

In order to evaluate the cause of the product failure, we will need you to return the original part to our offices within 10 working days of receipt of the replacement part. Should the part be covered under warranty, you will not be charged for the replacement item; however, you will be charged for the replacement part plus shipping if (1) the part is not under warranty because the source of failure is outside the scope of the warranty, or (2) the warranty period has expired. If there is no warranty coverage, we will send you a detailed letter of explanation. We also will charge you for the replacement item plus shipping and handling if you do not return the original item within 10 days of the receipt of the replacement item.

Instructions for returning the original item

1. Please use the return label that is included in the box containing the replacement part. The return shipment address is:

Big Ass Solutions
ATTN: RMA# _____
800 Winchester Road
Lexington, KY 40505

2. Use the packaging for the replacement part to return the original part.
3. Include the packing list we have provided which includes the RMA#.
4. If the part weighs over 50 lbs., you will be provided a prepaid Bill Of Lading. To schedule a freight pick up, please contact Customer Service. We will only charge back the freight costs if the original part is not under warranty, or if you do not return the original component within 10 days of receipt of the replacement.
5. If the part weighs 50 lbs. or less, please use the provided prepaid UPS Ground shipping label and drop off at your nearest UPS pickup location.

If you have questions, please contact us at 1-877-BIG-FANS.

Warranty claim form instructions

1. Complete Warranty Claim Form and Responsibility Agreement and fax them to 859-967-1695, Attn: Customer Service. These pages will be faxed back to you for your records. The Warranty Claim Form will include our acknowledgment and a Return Materials Authorization (RMA) number. **Do not return any item without first being assigned an RMA# by Big Ass Solutions Customer Service.**
2. No more than 10 days prior to the date you have made arrangements to replace the component part, call Customer Service at 1-877-BIG-FANS to arrange for replacement component delivery and original component pickup. At that time, we will fax you a written acknowledgment of your call that includes a reminder of the return instructions. Note: Even if you are not able to replace the component immediately following your initial notice to us, returning the Warranty Claim Form and Responsibility Agreement will effectively stop the warranty clock from running. You can then make the product exchange when you are prepared to do so. However, the warranty period will continue to run until we receive these completed pages back from you, and no warranty will be honored without receipt of these pages within the warranty period. We will not send out any replacement part until you have called to let us know that you have scheduled installation of the replacement. This ensures that the replacement part is not lost or damaged while awaiting installation, and that you are not billed for the replacement because you have waited too long to return the original component (see Responsibility Agreement).
3. When you receive the replacement part, you have 10 working days to remove and replace the existing component and return it to us at **800 Winchester Road, Lexington, KY 40505**.
 - a. Upon receiving the replacement part, verify that replacement part order is correct. If order is incorrect or damaged, notify Big Ass Solutions within 24 hours after receiving order.
 - b. Use care unpacking the replacement component, as you will need to use *both* the packaging from the replacement part and the packing list and a return address label included inside this packaging to return the original part. If the original packaging and return documents are not used, you will be responsible for any damage incurred in transit as well as any additional costs involved. **Note: The RMA# must appear on the outside of the box being returned. Items without an RMA# will not be accepted.**
 - c. Use the delivery service or one of the truck lines specified in the acknowledgement for return of the part. We will refuse receipt of any shipment that is returned via an unauthorized carrier. If you prefer, we can make all arrangements for delivery and pickup.
 - d. Fax a copy of the bill of lading or other tracking information to 859-967-1695 when the item has been shipped so that we know to expect delivery of the original part.
4. If we do not receive the original part back within 15 working days from the date you receive delivery of the replacement, you will be invoiced for the cost of the replacement part, plus freight, on Net 15 terms (see Responsibility Agreement), and this invoice will be due and payable. If you subsequently return the replacement part to us after payment has been made, we will refund any payment made for the replacement part, unless we subsequently determine that the part is not covered under warranty.



800 Winchester Road
Lexington, KY 40505
Phone: 1-877-BIG-FANS
Fax: (859) 967-1695
www.bigasssolutions.com

Warranty Claim Form

Name (print): _____ Signature: _____

Company: _____

Shipping Address: _____

City/State/ZIP: _____

Phone: _____ Fax: _____

Items Returned: _____ Date of Purchase: _____

Reason(s) for Returning Item (please provide detail, including length of time after control system had been in operation that problem was noticed, nature of problem, any attempts you made to remedy the problem, etc.):

ATTENTION: Do not return any item without first being assigned an RMA# by Big Ass Solutions Customer Service Department. The RMA# must appear on the outside of the box being returned. Items without an RMA# will not be accepted.

Date Replacement Parts Should Be Shipped (if known): _____

(Please do not request shipment until you are prepared to install. Call us at 1-877-BIG-FANS to arrange shipment when you have scheduled installation.)

Acknowledgment of Receipt of Warranty Return Notification (to be completed by Big Ass Solutions)

Acknowledged By: _____ Date: _____

RMA#: _____

Authorized Truck Line(s): _____



800 Winchester Road
Lexington, KY 40505
Phone: 1-877-BIG-FANS
Fax: (859) 967-1695
www.bigasssolutions.com

Responsibility Agreement

To: Big Ass Solutions

The undersigned understands and acknowledges receipt of the Warranty Claim Form and Instructions and agrees that Big Ass Solutions has the right, upon receipt of returned merchandise, to make final determination as to whether this merchandise should be replaced at no cost under Big Ass Solutions' stated warranty policy.

The undersigned further agrees that if Big Ass Solutions determines that this merchandise does not qualify under its stated warranty policy, Big Ass Solutions can invoice for the replacement merchandise plus shipping and handling for the original part and all replacements, and such invoice will be paid within 15 days of receipt of the same.

The undersigned agrees to ship to Big Ass Solutions' location at 800 Winchester Road, Lexington, KY 40505 all of the merchandise replaced by Big Ass Solutions including, but not limited to, defective or failed components, within 10 working days of the receipt of the any replacements.

The undersigned further agrees that if said replaced merchandise has not been shipped to Big Ass Solutions within 10 working days, Big Ass Solutions can invoice for the replacement merchandise plus shipping and handling, and the invoice will be paid within 15 days of receipt.

Signed: _____

Title: _____

For: _____

(Name of Company)

Date: _____



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2425 Merchant St., Lexington, KY 40511
1 (877) BIG-FANS | WWW.BIGASSOLUTIONS.COM