SMARTRITE®

BY EVERIDGE®



Operator's Manual and Setup Guide

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Introduction



Figure 1-1: SMRT-100 Display E00073EN

The SMRT-100 temperature monitor and alarm system provides accurate temperature and relative humidity monitoring of both walk-in coolers and freezers. The system offers a large 5-inch high-resolution thin film transistor (TFT) full-color touch screen display, with Wi-Fi capability for remote monitoring and alarm notification. With the addition of an optional second temperature/humidity sensor, two separate rooms can be monitored at the same time. Additionally, a second SMRT-100 can be added to link lighting control between two systems using the multiway feature.

In addition to monitoring, the system can control up to three optional light switches, three panic switches for accidental entrapment or emergencies, and three motion detectors for hands-free lighting control.

The SMRT-100 can control up to two separate door/jamb heater outputs, a single view (Vu) port heater output, ultraviolet (UV) sanitation output, and an evaporator fan kill for a less distractive experience when working inside of the cooler/freezer.

Alarms and Notifications

The SMRT-100 provides visual notifications on the system control panel for both over and under temperature faults, door open conditions, and maintenance reminders. An optional alarm can be added for audible alerts. For more information, see “Audible Alarm” on page 6.

When the Wi-Fi system is enabled and internet is available, the system can alert multiple remote users on smartphones and tablets of temperature faults, door open conditions, and maintenance reminders using the Everidge App. The App also allows the remote users to view real-time status and logged events. For more information, see “Everidge App” on page 28.

NOTICE

Working high-speed internet is required for remote notification and cloud data storage to function.

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Chapter 1 Components

Standard Components

The SMRT-100 standard components are all the items that are included with either the factory installed panel or the retrofit kit.

For part numbers and part ordering information, scan the QR code® or go to https://www.everidge.com/smartrite-partsappa.

Figure 1-2: Parts QR Code® E00136

Thin Film Transistor Display (TFT)

The TFT display is a 5-inch full-color touch screen that interfaces with the system electronics located in the power base enclosure. The display allows the user to monitor real time conditions and to control system features. For more information, see “Everidge App” on page 28.



Figure 1-3: TFT Display E00083

Optional Components

Optional components are components that can be added to the SMRT-100 system to enhance its functionality. Only Everidge OEM and approved accessories are to be used with the SMRT-100 system.

SmartRite External Light Switch

The light switch is an illuminated membrane switch with an anodized aluminum frame. In the factory installed panel the switch is flush mounted into the wall and in the retrofit kit, it comes pre-mounted into a single gang electrical box with the wires exiting the box. The switch is only compatible with the SmartRite power base module. Up to three switches can be connected to a single power base.

SmartRite Panic Switch

The panic switch is an illuminated membrane switch with an anodized aluminum frame. When the switch is depressed, an audible alarm will sound and if notifications are enabled, all users will be notified of the event. In the factory installed panel the switch is flush mounted into the wall and in the retrofit kit, it comes pre-mounted into a single gang electrical box with the wires exiting the box. The switch is only compatible with the SmartRite power base module. Up to three switches can be connected to a single power base.

Motion Detector Switch

The motion switch detects motion within the cold room and signals the power module to turn on lights. Motion detection times can be modified by the user using the display. In the factory installed panel the switch is flush mounted into the wall and in the retrofit kit, it comes pre-mounted into a single gang electrical box with the wires exiting the box. The switch is only compatible with the SmartRite power base module. Up to three switches can be connected to a single power base.



Figure 1-4: Light Switch E00082



Figure 1-5: Panic Switch E00075

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Motion Detector Switch

The motion switch detects motion within the cold room and signals the power module to turn on lights. Motion detection times can be modified by the user using the display. In the factory installed panel the switch is flush mounted into the wall and in the retrofit kit, it comes pre-mounted into a single gang electrical box with the wires exiting the box. The switch is only compatible with the SmartRite power base module. Up to three switches can be connected to a single power base.



Figure 1-6: Motion Switch E00076

⚠ CAUTION

Heaters must not be energized prior to the refrigeration startup. Failure to do so may result in premature heater burnout and void the heater warranties.

Jamb Heater

The SMRT-100 has the capability of controlling an internally mounted jamb heater. The heater is located inside of the door frame if equipped on freezer units only.

View (VU) Port Heater

The SMRT-100 has the capability of controlling a view port heater. The heater is an internal frame heater and prevents the observation window from freezing or fogging up.

Everidge UV Pro by Aerapy®

The SMRT-100 has the ability to connect to and control a ground fault circuit interrupter (GFCI) for the purpose of connecting a UV Pro by Aerapy® device. The UV Pro by Aerapy® disinfection device employs short-wavelength UV-C light to neutralize ethylene gas and mitigate harmful pathogens such as bacteria, viruses, and molds in the air.



Figure 1-7: Everidge UV Pro by Aerapy® E00086

Light Base

The SMRT-100 has the ability to connect multiple light bases with a maximum load of 5 amps (600 Watts). The lights can be operated by the display, optional illuminated light switches, and by motion detection with user set time delay for auto shutoff. The light bases are low profile with anti-glare high-impact lens and use LED technology for dependability and energy efficiency.

Table 1-1: Light Base Specifications	
Input	120 V / 0.11 Amps (13 Watts)
Output	1194 Lumens



Figure 1-8: Light Base E00087

Audible Alarm

A horn type alarm can be added to the SMRT-100 to provide an alarm if the panic switch is depressed.



Figure 1-9: Audible Alarm E00126

Fan Kill Relay

The fan kill relay is a panel mounted relay designed to interrupt the power to the evaporator fan. The relay connects to the power base with an input voltage of 120 AC Volts. The contacts provide a dry (no voltage) signal to the fan control board inside the evaporator coil.



Figure 1-10: Fan Kill Relay E00080

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Chapter 2 Display Setup

Display Introduction

Initial Power Up

When the system is powered up for the first time, the welcome screen is displayed for a short time while the system boots to the main operation screen.

Once the display shows the main operation screen, an alarm will be displayed and the unit will start "beeping".

1. Press the alarm button (1) to quiet the alarm. This is caused by the unit not being configured.



Figure 2-1: Welcome Screen E00040

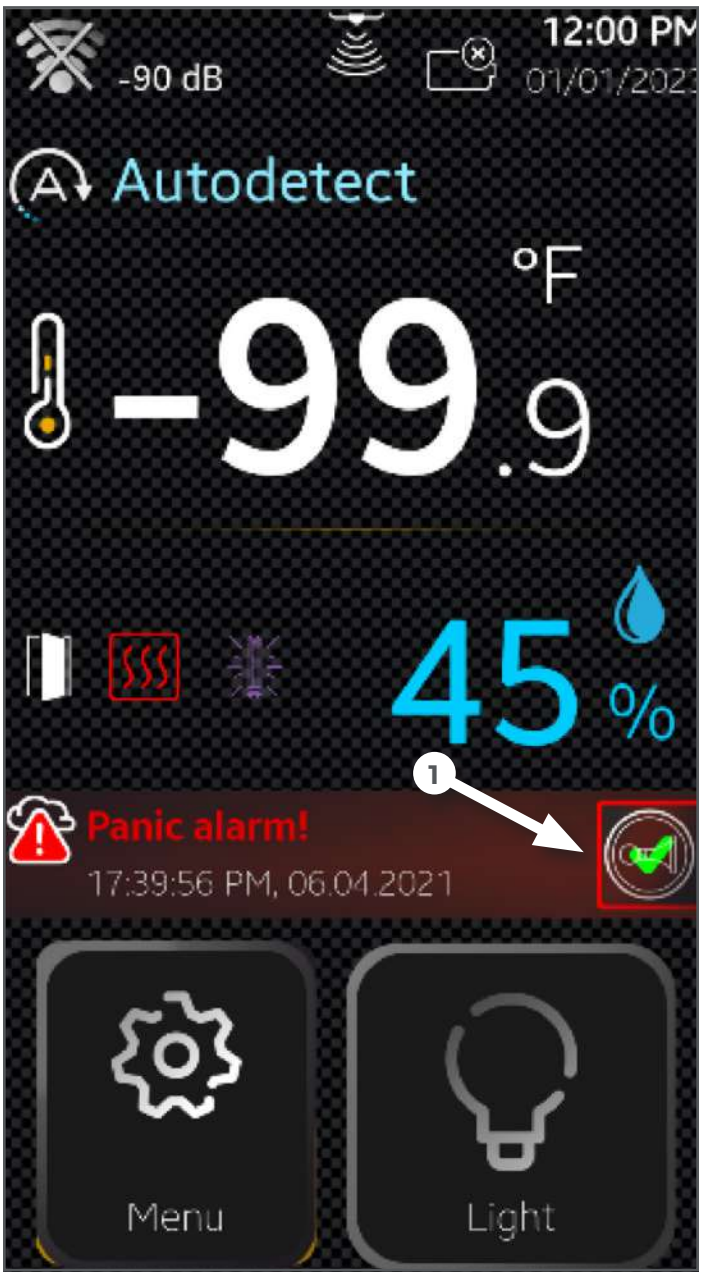


Figure 2-2: Main Operation Screen E00041EN

Main Menu

The Main menu is separated into six main categories with each being separated into sub categories.

1. Press the Menu button (1).



Figure 2-3: Menu Button E00043EN

2. The Enter password screen (2) will be displayed.
3. Use the numerical keypad (4) and enter the default password. The password will be displayed in the display area (3).

Table 2-1: Default Password
1 2 3 4

4. Press OK (5) to continue to the Main menu.

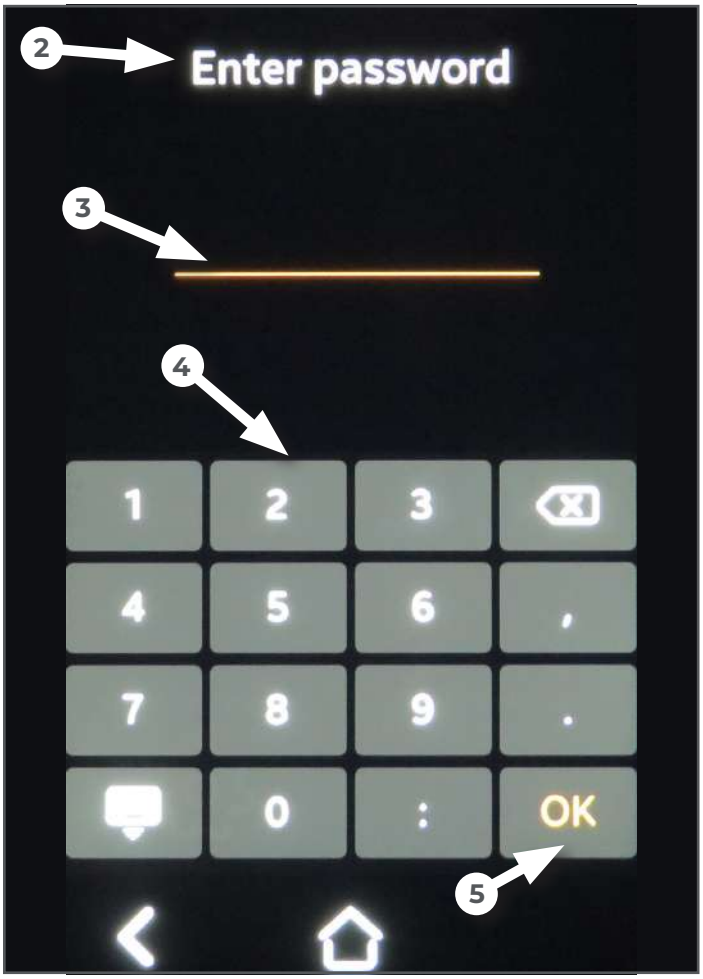


Figure 2-4: Enter Password Screen E00081EN

Table 2-2: Main Menu	
Callout	**Description**
6	Selects Between English And Spanish Language
7	Used For Setting Up System Parameters
8	Used For Setting Up System Configuration
9	Changes Administrator Password
10	Resets Unit To Factory Setting
11	Displays System Information And Allows For Editing System Names
12	Home Button Icon (Returns To Main Operation Screen)
13	Back Arrow Button (Goes Back One Page)

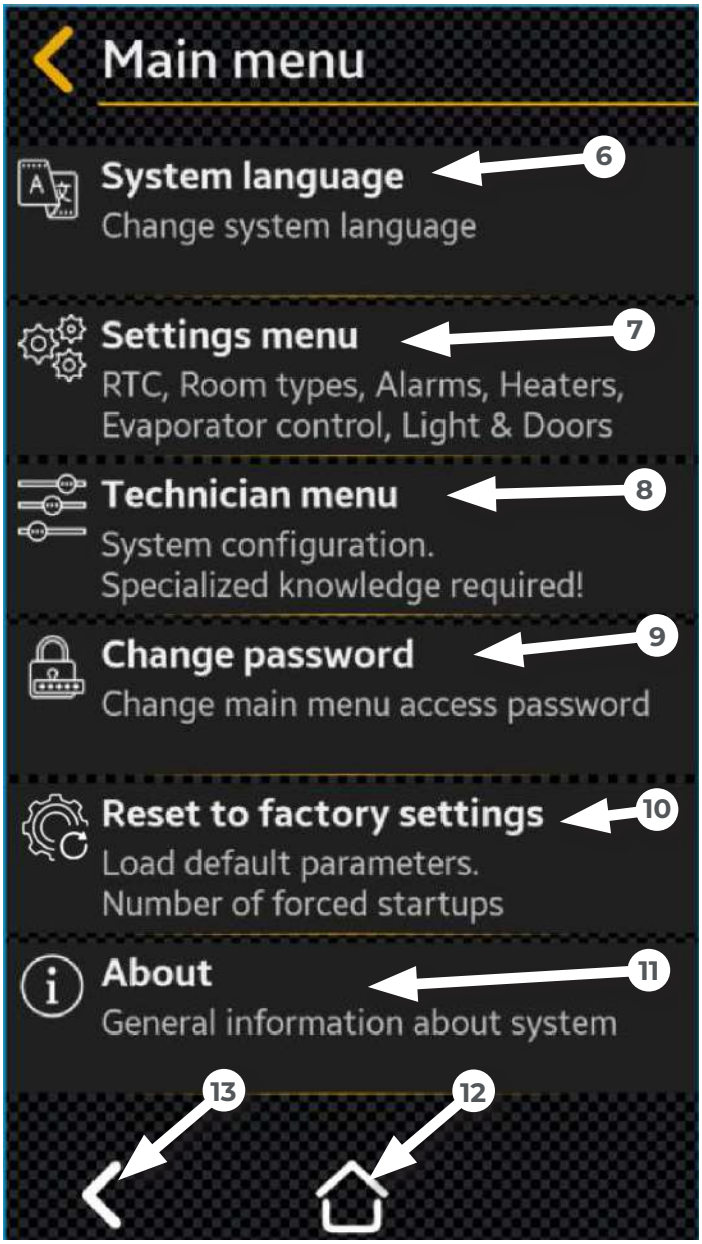


Figure 2-5: Main Menu Categories Screen E00045EN

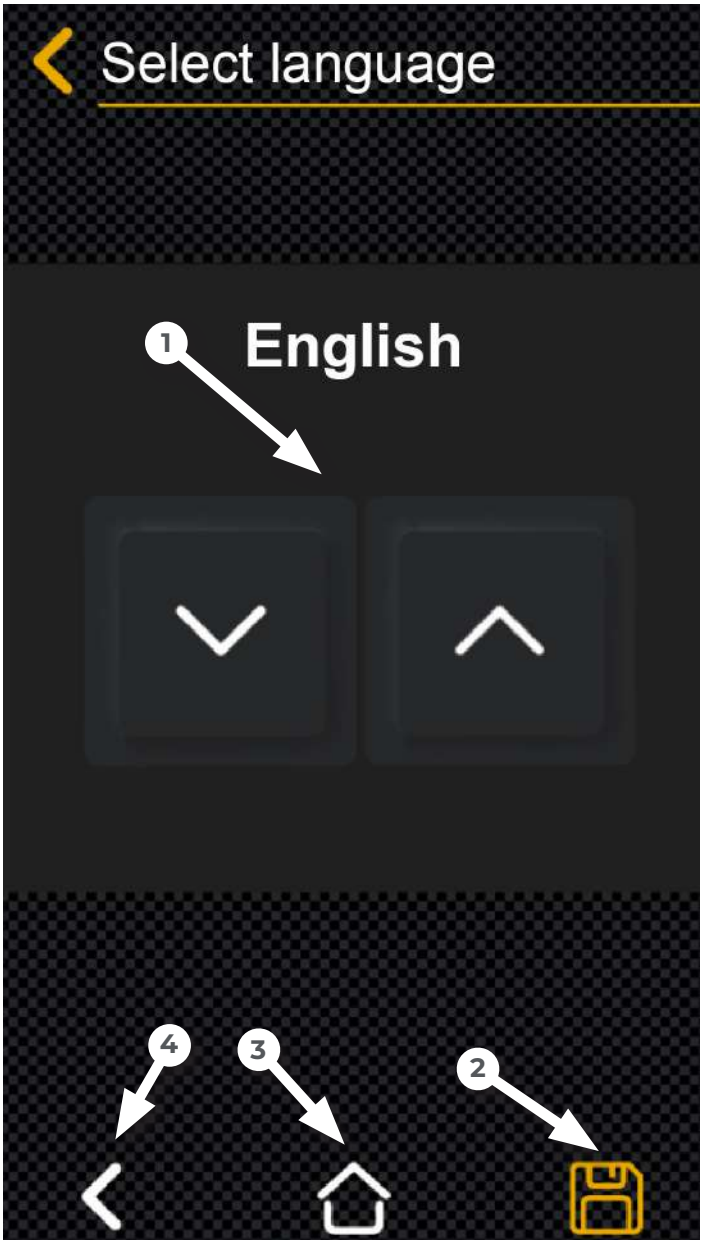


Figure 2-6: Language Setting Screen E00110

System Language

By default, the SMRT-100 is set to English and can be optionally set to Spanish.

1. Enter the Main menu. For more information, see “Main Menu” on page 8.
2. Select System language from the Main menu.
3. Use arrows (1) to select the desired language and select the save icon (2).
4. Select the home icon (3) to return to the main operation screen or back arrow (4) to the previous screen.

Settings Menu

1. Enter the Main menu. For more information, see “Main Menu” on page 8.
2. Select Settings menu.

Table 2-3: Settings Menu	
Callout	**Description**
1	Used For Setting Date And Time
2	Used To Select Room Type (Cooler, Freezer, Or Auto Detect)
3	Used To Set High/Low Temperature And Humidity Alarms
4	Used To Set Heater Parameters
5	Used To Enable Fan Kill Option
6	Used To Set Door Switch And Lighting Parameters
7	Home Button Icon (Returns To Main Operation Screen)
8	Back Arrow Button (Goes Back One Page)

Date and Time Setup

1. Enter the Settings menu. For more information, see “Settings Menu” below.
2. Select Date and Time setup.
3. Select the Time zone by using the up and down arrows (1)
4. Enable the Daylight saving time slide button (2) if savings time is observed.
5. Use the up and down arrows to select the Time (3).
6. Use the up and down arrows to select the Date (4).
7. Select the save button icon (5).
8. Select the home icon (6) to return to the main operation screen or the back arrow (7) to go to the previous screen.

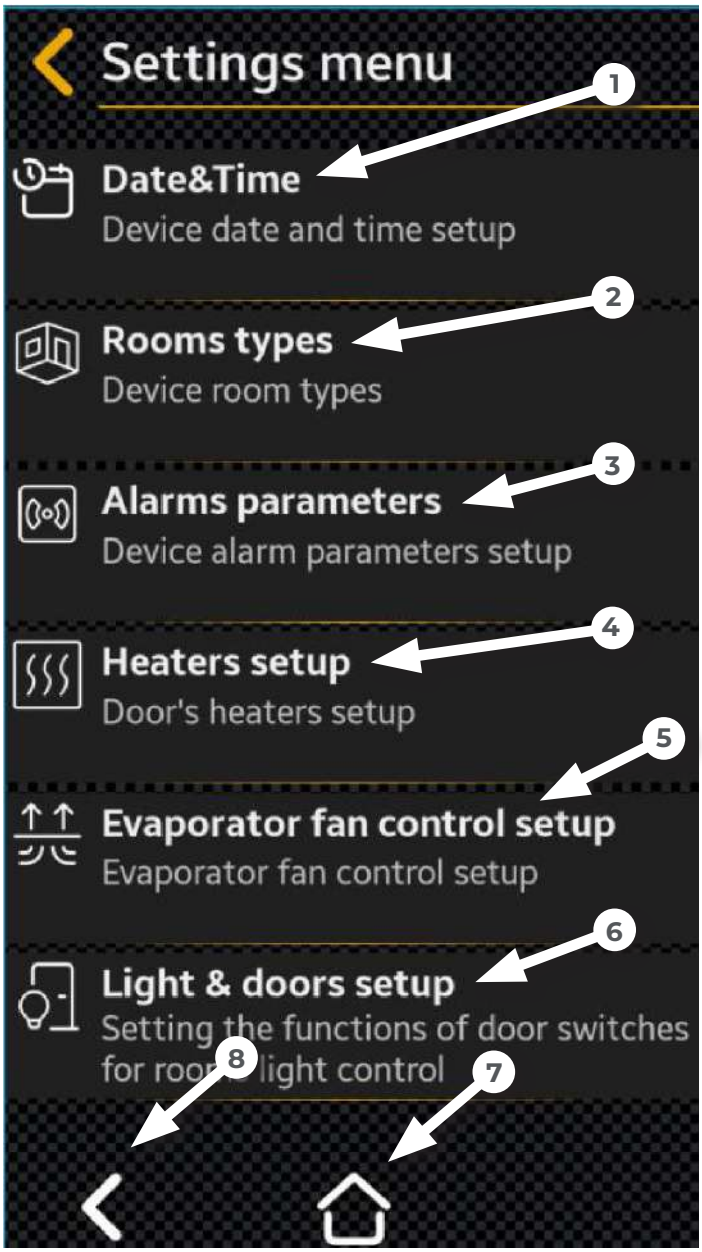


Figure 2-7: Settings Menu Screen E00046EN

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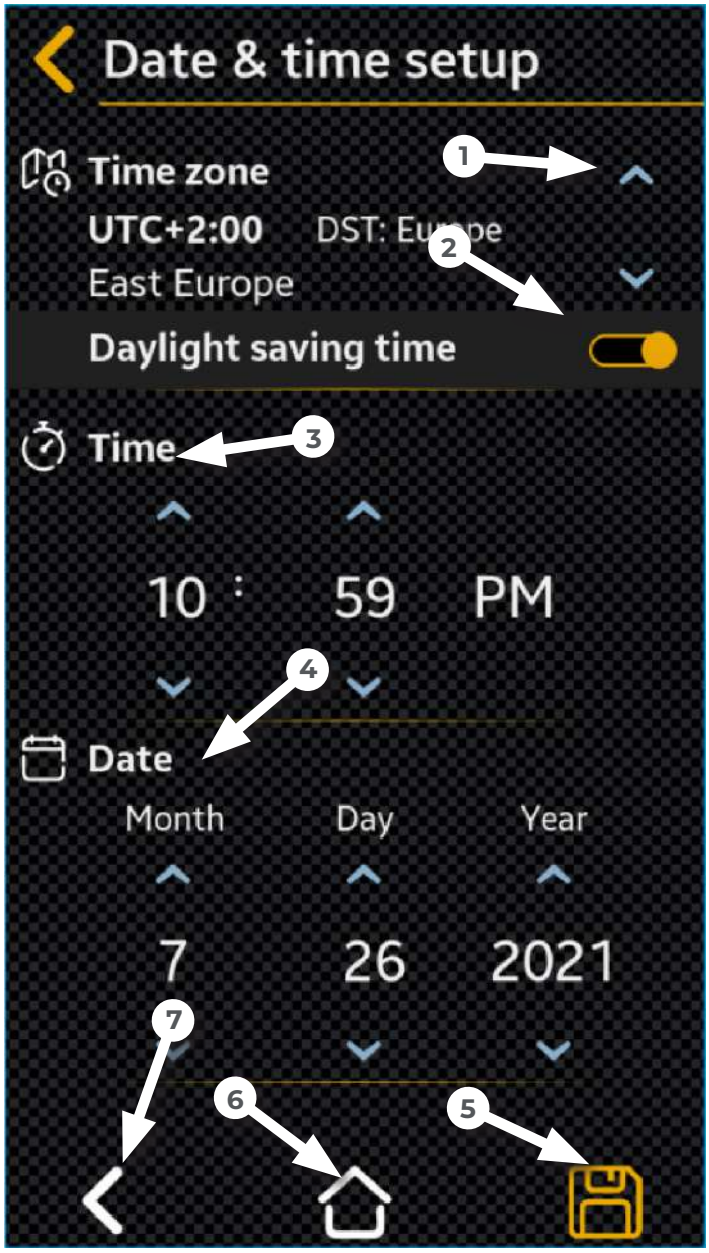


Figure 2-8: Date and Time Setup Screen E00047EN

Room Type Setup

1. Enter the Settings menu. For more information, see “Settings Menu” on page 10.
2. Select Room types.
3. Select the room number (1). A second probe must be enabled to have a second room. For more information, see “Number of Probes” on page 18.
4. Using arrows, select type based on room temperature or automatic detection.
5. Select save icon and back arrow button.

Table 2-4: Room Type	
Cooler	Above Freezing, Typically 38°F (5°C)
Freezer	Below Freezing, Typically 0°F (-18°C)
Automatic	Detected By Room Temperature

6. If using automatic, select Autodetect time (4) and use arrows to select time.
7. Select save and back.
8. The room type (2) and autodetect time (3) will be displayed on the right side of the screen.
9. Select the home icon to return to the main operation screen or the back arrow to go to the previous screen.

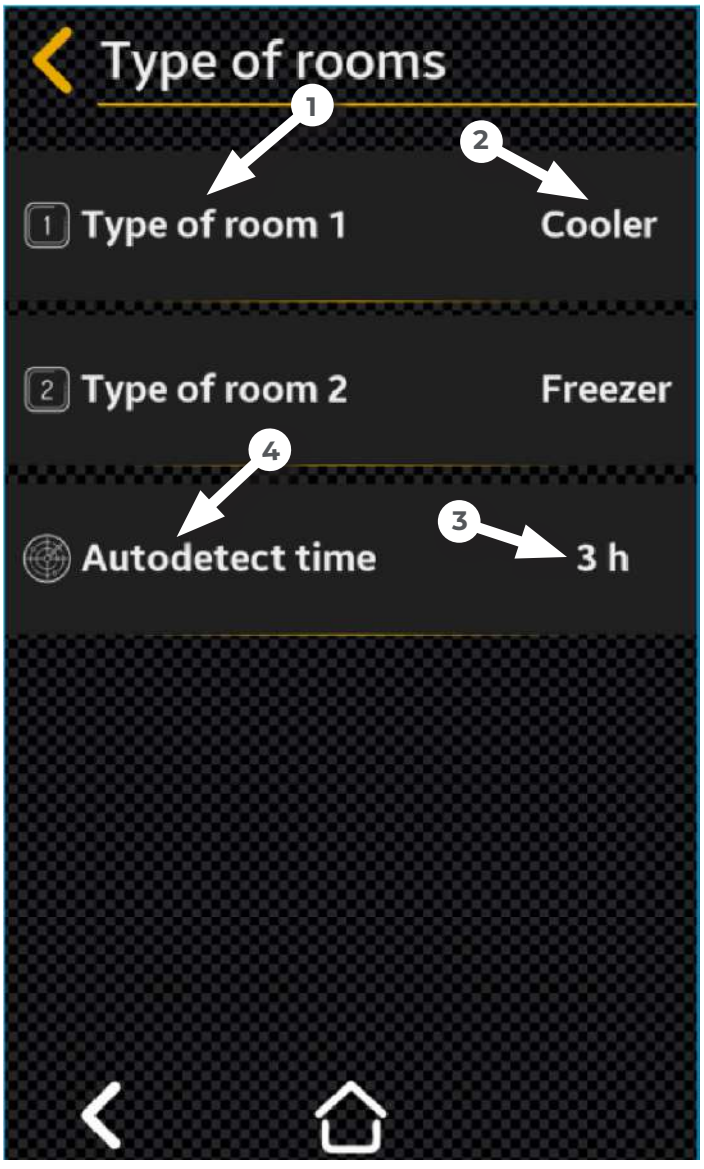


Figure 2-9: Room Type Setup Screen E00048EN

Alarm Parameter Setup

1. Enter the Settings menu. For more information, see “Settings Menu” on page 10.
2. Select Alarms parameters.
3. Select the room number (1). A second probe must be enabled to have a second room. For more information, see “Number of Probes” on page 18.
4. Select high temp. alarm (2).
5. Select the high temperature that will cause an alarm using the up and down arrows.
6. Select save icon and back arrow button.
7. Select low temp. alarm (3).
8. Select the low temperature that will cause an alarm using the up and down arrows.
9. Select save icon and back arrow button.
10. Select High humidity alarm (4).
11. Select the high humidity that will cause an alarm using the up and down arrows.
12. Select save icon and back arrow button.
13. Select Low humidity alarm (5).
14. Select the low humidity that will cause an alarm using the up and down arrows.
15. Select save icon and back arrow.
16. Select the home icon to return to the main operation screen or the back arrow to go to the previous screen.

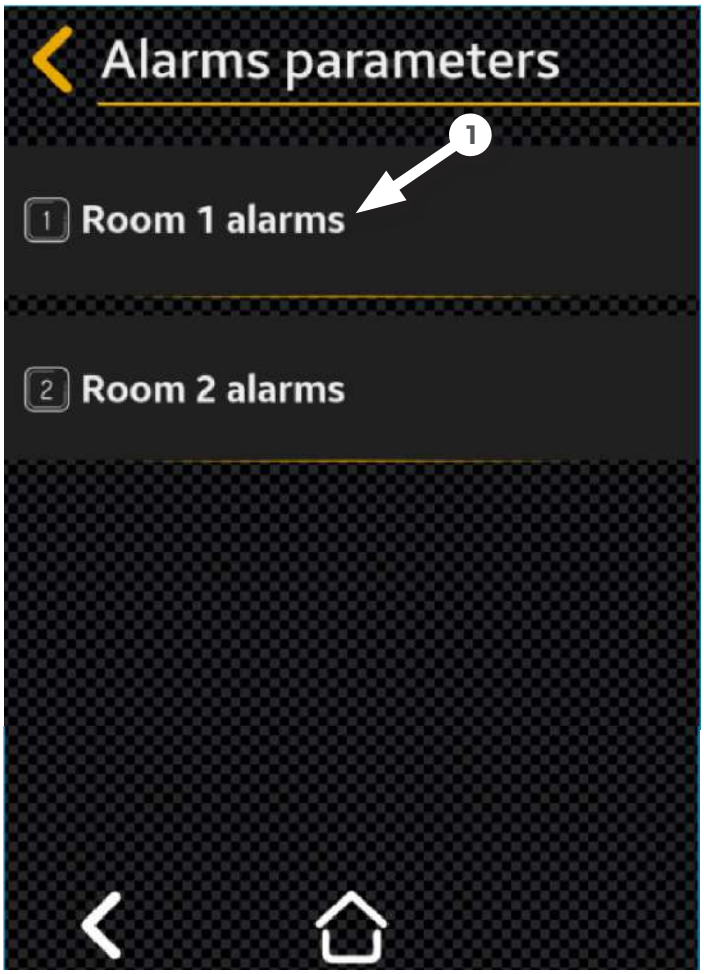


Figure 2-10: Alarms Parameter Screen E00049EN

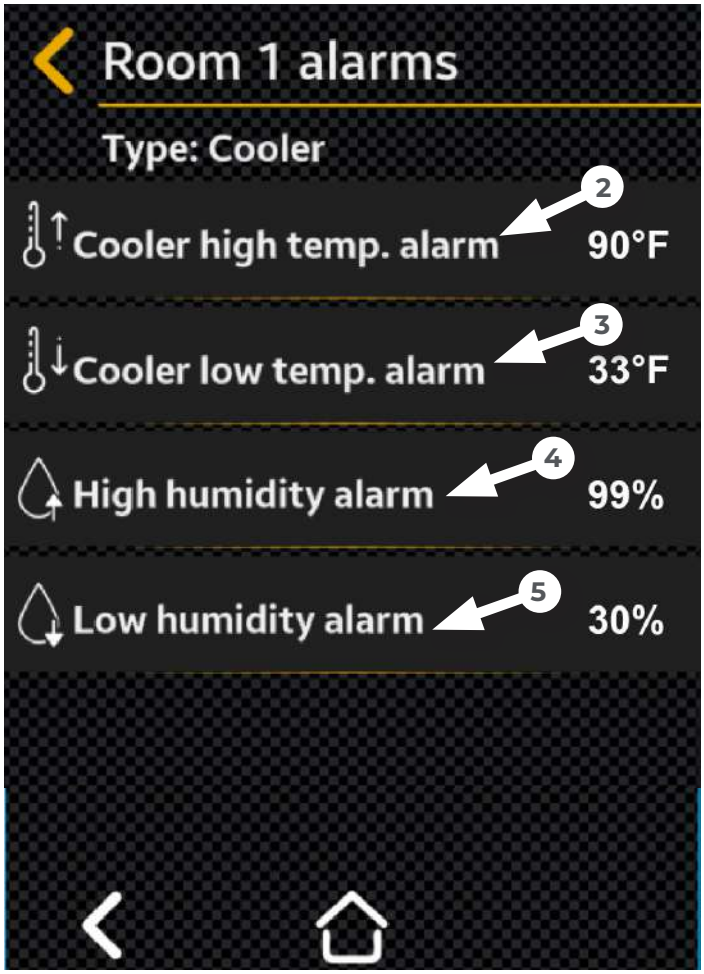


Figure 2-11: Alarm Setting Screen E00018

The room alarm parameter screen sets up the alarm parameter.

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Heater Setup

NOTICE

Freezers should be set to the lowest temperature and the percentage on time set to 100% on initial start-up.

The door and view port (VU) heaters are optional accessories and should only be enabled if installed. The heaters are used to prevent frost and condensation.

1. Enter the Settings menu. For more information, see “Settings Menu” on page 10.
2. Select Heaters setup.
3. Select the heater (1) to be set up.
4. Select the slide button (2) to enable the heater.
5. Select percentage on time (3) to set the percentage on in 8 minute intervals.
6. Use the up and down arrows to set the desired percentage.
7. Select save icon and back arrow button.
8. Select the Start air temperature (4) to set the temperature that the heater will turn on.
9. Use the up and down arrows to set the desired temperature.
10. Select save icon and back arrow button.
11. Select the home icon to return to the main operation screen or the back arrow to go to the previous screen.

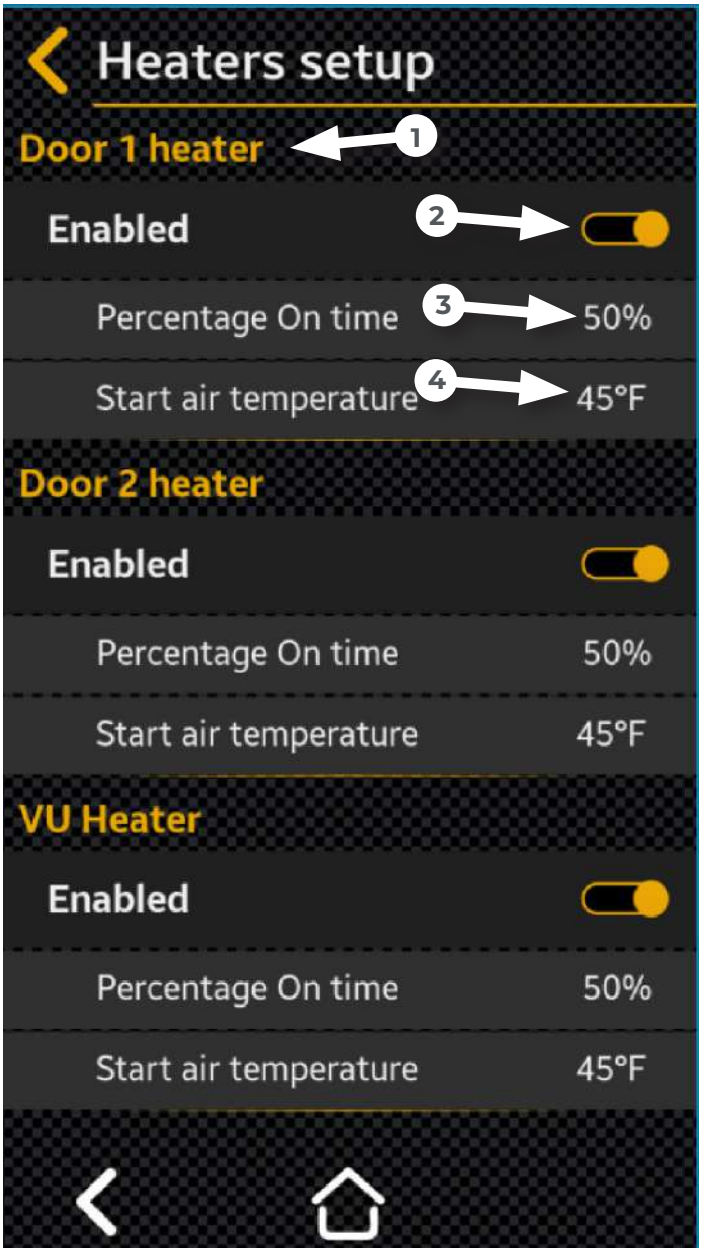


Figure 2-12: Heater Setup Screen E00051EN

Evaporator Fan Control Setup

The evaporator fan control is an optional accessory and should only be enabled if installed. It is designed to stop the evaporator fan when the door is open for a predetermined time.

1. Enter the Settings menu. For more information, see “Settings Menu” on page 10.
2. Select Evaporator fan control setup.
3. Select the slide button (1) to enable the evaporator fan control.
4. Select the override time (2) to set the time that the fan will restart after stopped.
5. Use the up and down arrows to set the desired time.
6. Select save icon and back arrow.
7. Select the fail-safe temperature (3) to set the minimum temperature that will bypass the fan kill feature and turn the fans back on.
8. Select save icon and back arrow.
9. Select the home button to return to the main operation screen or the back arrow to go to the previous screen.

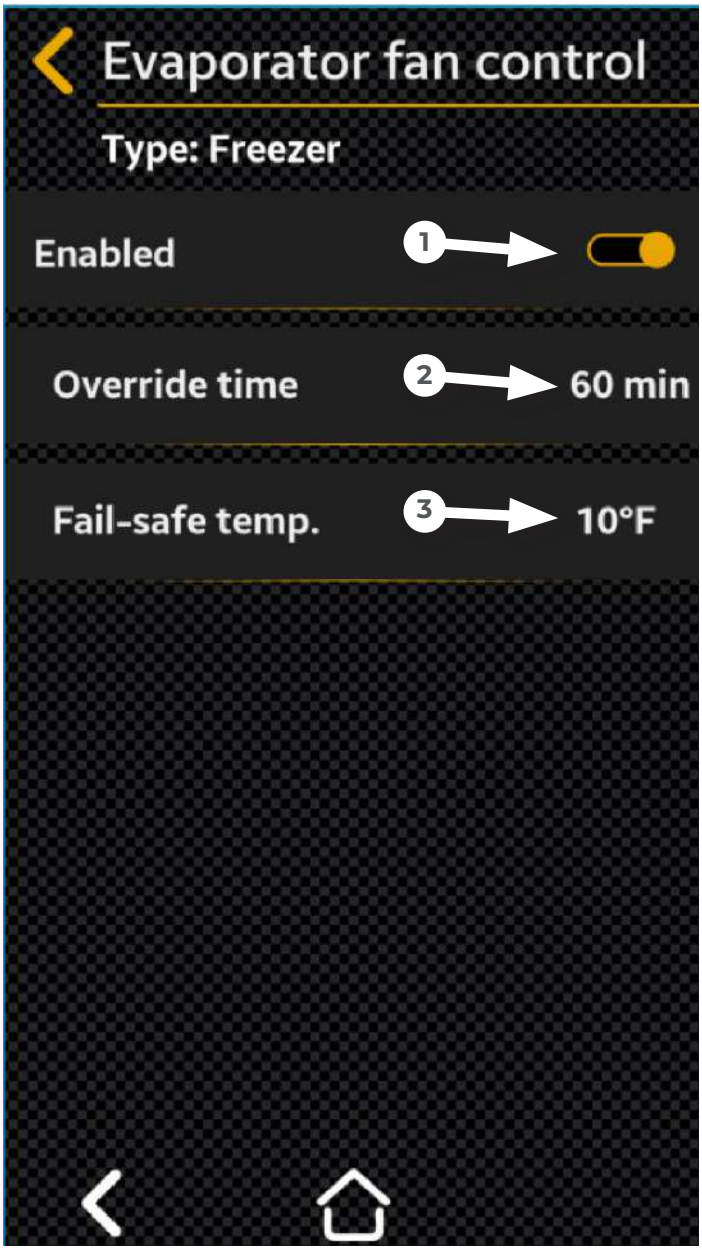


Figure 2-13: Evaporator Fan Control Setup Screen E00052EN

Light and Door Setup

The light and door control is used to control optional lighting when used in conjunction with optional door, motion, and external switches.

1. Enter the Settings menu. For more information, see “Settings Menu” on page 10.
2. Select Light and doors setup.

NOTICE

Confirm that optional accessories not installed are not enabled to prevent false alarms. Confirm that jumper wires are in place where applicable.

3. Select the light auto off slide button (1) to have lights turn off after a predetermined time.
4. Select the auto off time (2) to set how long the lights will stay on.
5. Use the up and down arrows to set the desired time.
6. Select save icon and back arrow button.
7. Select the switch enabled slide button (4) if there is a door switch installed.
8. Select the light on slide button (5) to have the lights turn on when the door is open.
9. Select the open alarm slide button (6) to trigger an alarm after a predetermined time.
10. Select the open time alarm (7) to set the time interval that will trigger an alarm if the door is left open.
11. Use the up and down arrows to set the desired time.
12. Select save icon and back arrow button.
13. Select the home button to return to the main operation screen or the back arrow to go to the previous screen.

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Figure 2-14: Door Light Setup Screen E00053EN

Technician Menu

1. Enter the Main menu. For more information, see “Main Menu” on page 8.
2. Select Technician menu from the Main menu.

Table 2-5: Technician Menu	
Callout	**Description**
1	Used For Selecting Temperature Units
2	Used To Enable Optional Panic Switches
3	Used To Enable An Optional Motion Detector Switch
4	Used To Enable Sleep Mode
5	Used To Program The Number Of Probes
6	Used To Set Up A Wi-Fi Connection
7	Used To Set Screen Brightness
8	Used To Set Up An Optional Disinfection System

Table 2-5: Technician Menu	
Callout	**Description**
9	Used To Set Condenser Maintenance Reminder
10	Used To Calibrate Probes To Actual Temperature For Mounting Location
11	Used To Set Probe Recording Time Intervals And For Connecting A Computer

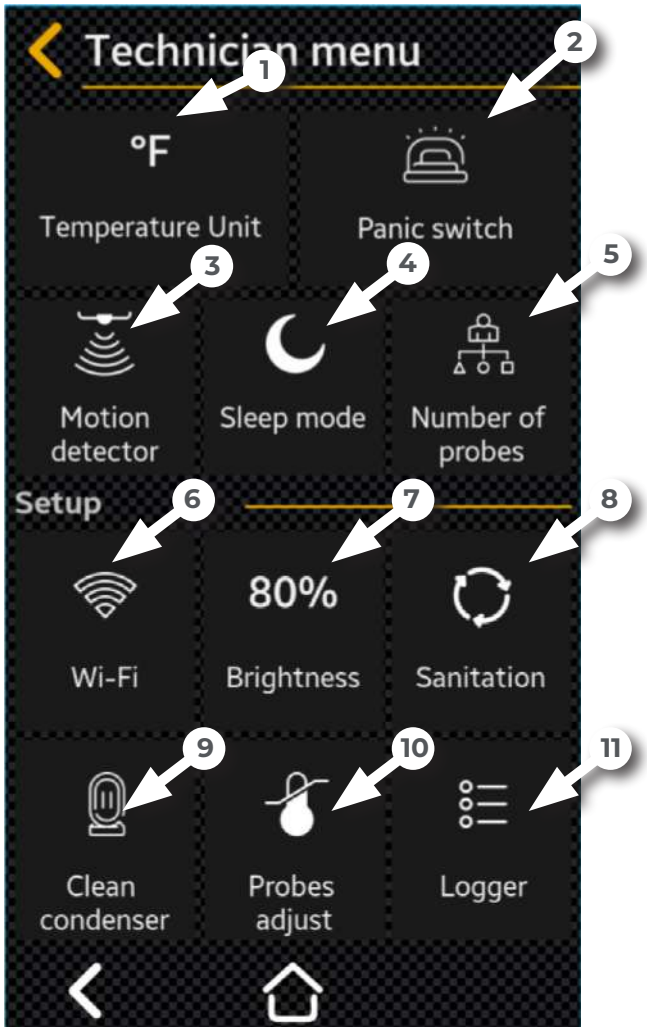


Figure 2-15: Technician Menu Screen E00055EN

Temperature Unit

Temperature unit screen is used to select between Fahrenheit and Celsius.

1. Enter the Main menu. For more information, see “Main Menu” on page 8.
2. Select Technician menu from the Main menu.

3. Select Temperature unit.
4. Use the arrows (1) to select the temperature units and select save icon (2).
5. Select the home icon (3) to return to the main operation screen or the back arrow (4) to go to the previous screen.

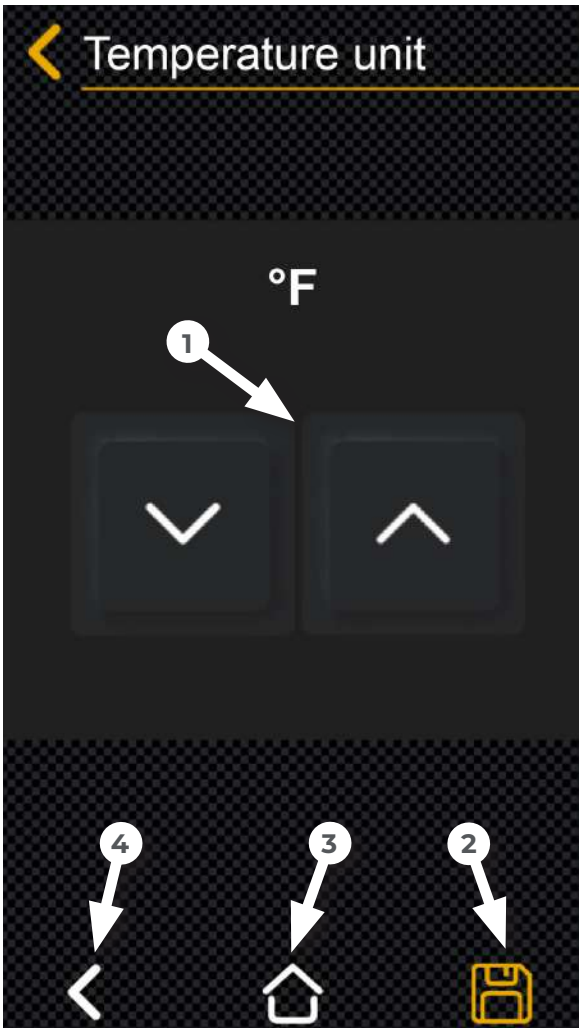


Figure 2-16: Temperature Unit Screen E00111

1. Enter the Main menu. For more information, see “Main Menu” on page 8.
2. Select Technician menu from the Main menu.
3. Select Panic switch.
4. Use the arrows (1) to select yes or no and select save icon (2).
5. Select the home icon (3) to return to the main operation screen or the back arrow (4) to go to the previous screen.

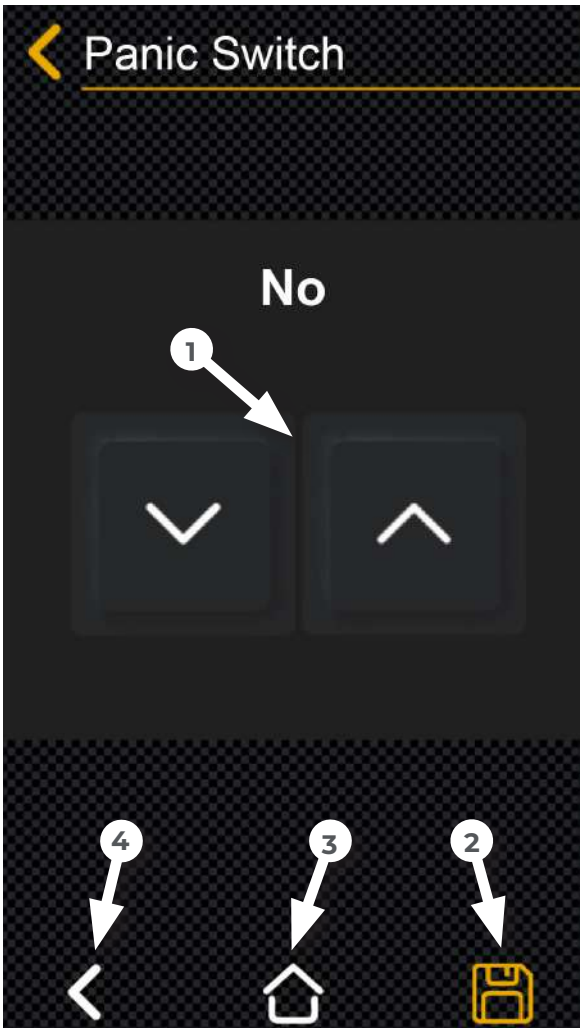


Figure 2-17: Panic Switch Screen E00112

Panic Switch

Panic switch screen is used to enable the panic switch feature if optional panic switches are installed. Up to three panic switches can be installed on a system. When a panic switch is pressed, an alarm will be triggered and remote notifications will be sent.

Motion Detector

Motion detector screen is used to enable the motion detection feature if optional motion detectors are installed. Up to three motion detectors can be installed on a system. Motion detectors are used to automatically turn lights on inside of a cold room and turn off the evaporator fan if these optional accessories are installed.

1. Enter the Main menu. For more information, see “Main Menu” on page 8.
2. Select Technician menu from the Main menu and select Motion detector.
3. Use the arrows (1) to select yes or no and select save icon (2).
4. Select the home icon (3) to return to the main operation screen or the back arrow (4) to go to the previous screen.



Figure 2-18: Motion Switch Screen E00113

Sleep Mode

Sleep mode screen disconnects the battery from the power base module and puts the system into a low power mode to conserve the battery charge during extended equipment shutdown.

NOTICE

Sleep mode should be enabled when the system is powered down for extended periods of time or when the display has to be shipped or transported.

1. Enter the Main menu. For more information, see “Main Menu” on page 8.
2. Select Technician menu from the Main menu and select Sleep mode.
3. Use the arrows (1) to select yes or no and select save icon (2).
4. Select the home icon (3) to return to the main operation screen or the back arrow (4) to go to the previous screen.

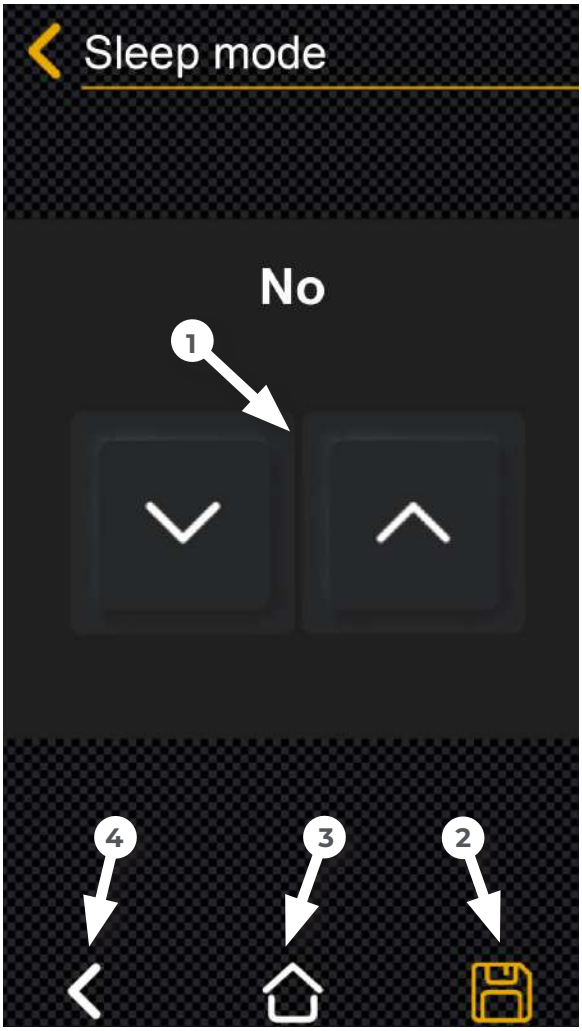


Figure 2-19: Sleep Mode Screen E00114

Number of Probes

Number of probes screen is used to select the number of rooms to monitor. The SMRT-100 system is capable of monitoring up to two separate rooms.

1. Enter the Main menu. For more information, see “Main Menu” on page 8.
2. Select Technician menu from the Main menu and select Number of probes.
3. Use the arrows (1) to select 1 or 2 and select save icon (2).
4. Select save icon and back arrow button.
5. Select the home button icon (3) to return to the main operation screen or the back arrow (4) to go to the previous screen.



Figure 2-20: Number of Probes Screen E00115

Wi-Fi Enable

Wi-Fi is used as a wireless method to provide high-speed internet access to the SMRT-100 system.

NOTICE

Functioning high-speed internet must be available for the Wi-Fi system and remote monitoring system to function properly.

1. Enter the Main menu. For more information, see “Main Menu” on page 8.
2. Select Wi-Fi.
3. Select the active slide button (1) to enable the Wi-Fi system.
4. If a previous network was set up, its name (3) will appear under current network, and the network address information will be displayed under Connection info (4).
5. The display connection information (6) can be viewed under device connection info. For more information, see “Connect Device” on page 31.
6. To delete a previous network, select the garbage can icon (2) and follow the on screen instructions.
7. To connect to a Wi-Fi network, select Scan Wi-Fi (5). A list of available networks will be displayed after a short time.

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Figure 2-21: Wi-Fi Enable Screen E00059EN

NOTICE

The SMRT-100 is capable of using 2.4 GHz wireless networks only.

NOTICE

Typically, signal strength between -50 dB and -70 is considered ideal. A lower negative number indicates a stronger signal.

1. Select the desired wireless network from the list (1) and the password screen will open.
2. If the desired network is not displayed, select Rescan (2) and the list will repopulate.



Figure 2-22: Selected Networks Screen E00060EN

Wi-Fi Password

1. The wireless network name (1) and security encryption type (2) will be displayed at the top of the page.
2. Select the Dynamic Host Configuration Protocol (DHCP) slide button to enable the SMRT-100 system to obtain network information automatically from the internet router. Optionally, network information can be entered manually if DHCP is not enabled.
3. Select the Password entry box (3) and keyboard screen will open.
4. Using the keyboard (7), enter the Wi-Fi password. The password will be displayed in the password field (6).
5. Select the green check icon (8) when done.

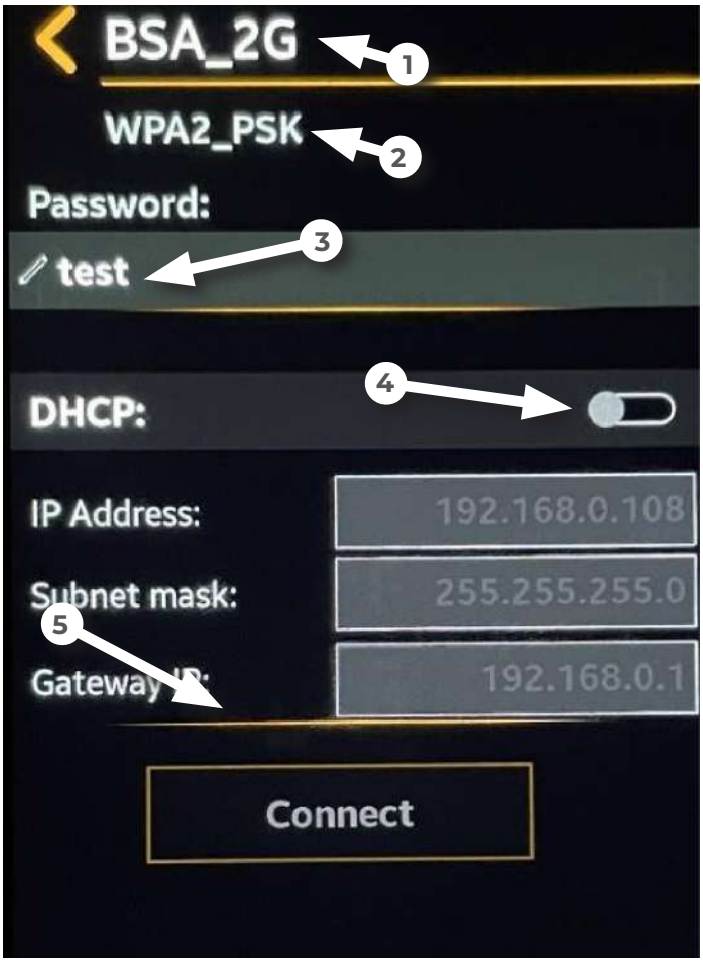


Figure 2-23: Password Screen E00061EN



Figure 2-24: Keyboard Screen E00062EN

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Brightness

Brightness screen is used to increase or decrease the display appearance. Using a lower level of brightness will extend the display lifetime.

1. Enter the Main menu. For more information, see “Main Menu” on page 8.
2. Select Technician menu from the Main menu and select Brightness.
3. Use the arrows (1) to select the desired level of brightness and select save icon (2).
4. Select the home button icon (3) to return to the main operation screen or the back arrow (4) to go to the previous screen.

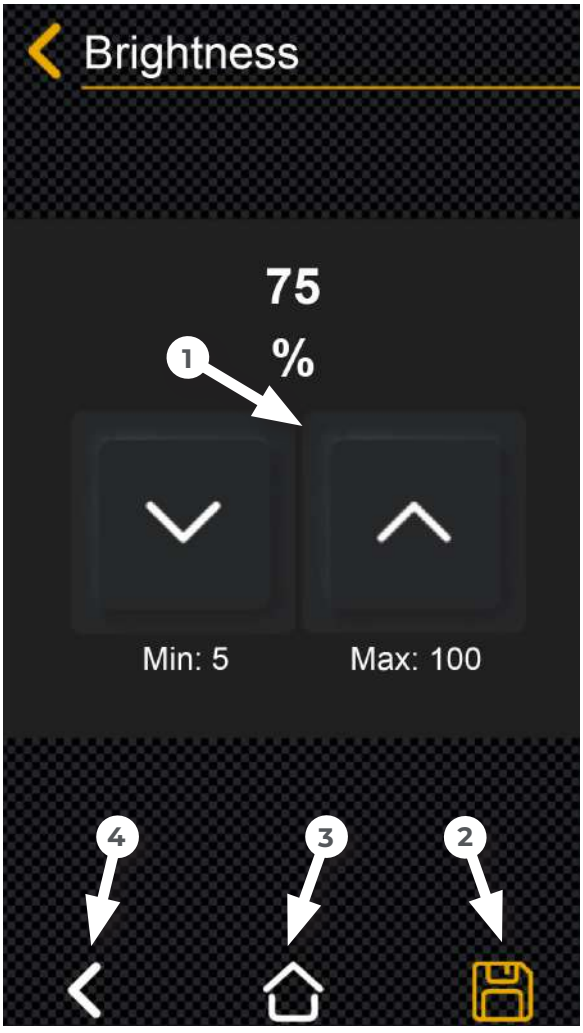


Figure 2-25: Brightness Screen E00116

Sanitation Cycle Setup

Sanitation cycle setup screen is used to control an optional Ultraviolet (UV) sterilizer. The user can program the times and durations the UV system will function.

1. Enter the Main menu. For more information, see “Main Menu” on page 8.
2. Select Technician menu from the Main menu and select Sanitation.
3. Select the sanitation cycle start slide button (1) to enable the sanitation system.
4. Select a cycle from the list (2).
5. Select the arrows (3) to scroll through the list.

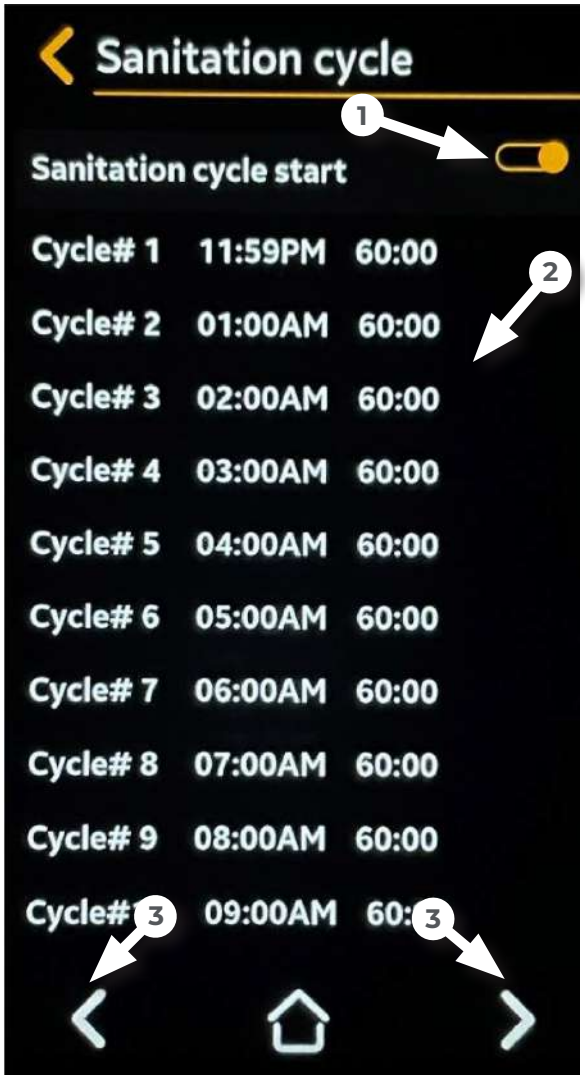


Figure 2-26: Sanitation Cycle Screen E00057EN

Cycle Time Adjust

1. The Cycle number (1) will be displayed at the top of the page.
2. Select the arrows (4) under Start Time (2) to change the hour (6), when the program will start.
3. Select the arrows (5) to determine the length of the run time (7) in minutes (maximum 60 minutes) and select save icon (8).
4. Select the home button icon (9) to return to the main operation screen or the back arrow (10) to go to the previous screen.

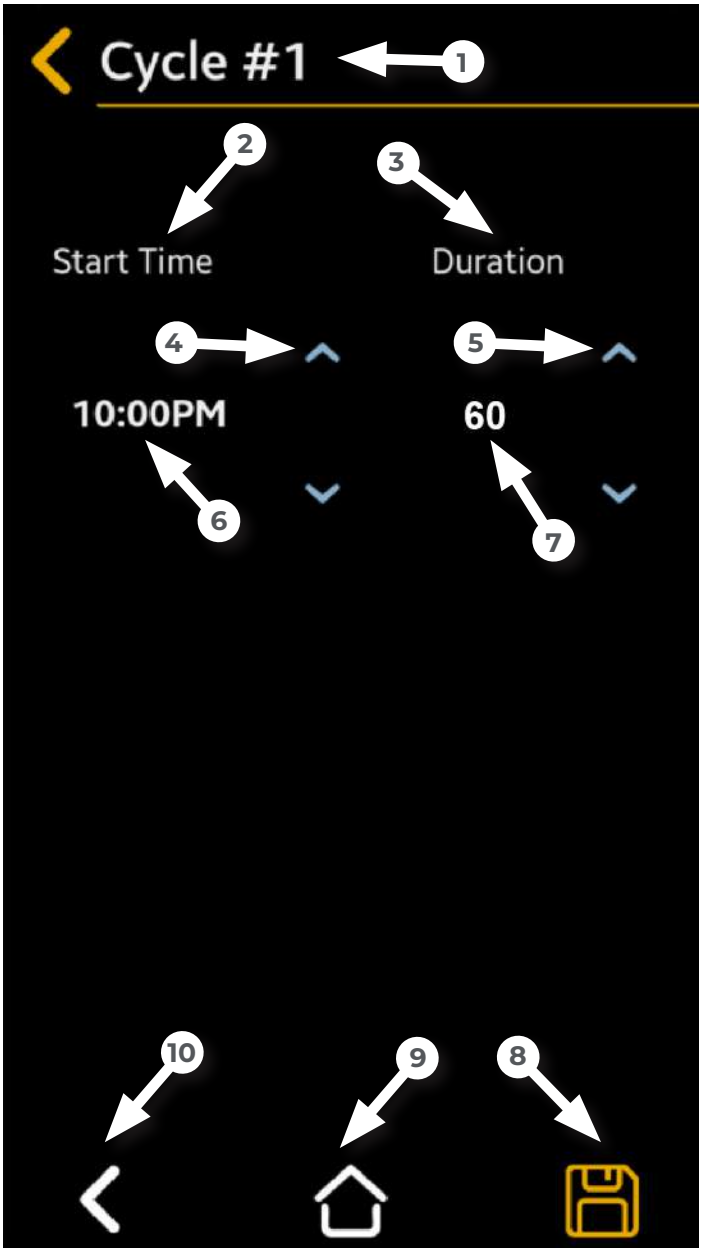


Figure 2-27: Cycle Time Adjust Screen E00058EN

Clean Condenser Alerts

Clean condenser setup screen is used to set up a maintenance reminder to clean the cooling system condenser.

1. Enter the Main menu. For more information, see “Main Menu” on page 8.
2. Select Technician menu from the Main menu and select Clean condenser.
3. Select the Enabled slide button (1) to enable the clean condenser alarm.
4. Select Alarm Interval (2) and use the arrow buttons to select the number of days.
5. Select save icon and back arrow.
6. Select the home button icon to return to the main operation screen or the back arrow to go to the previous screen.

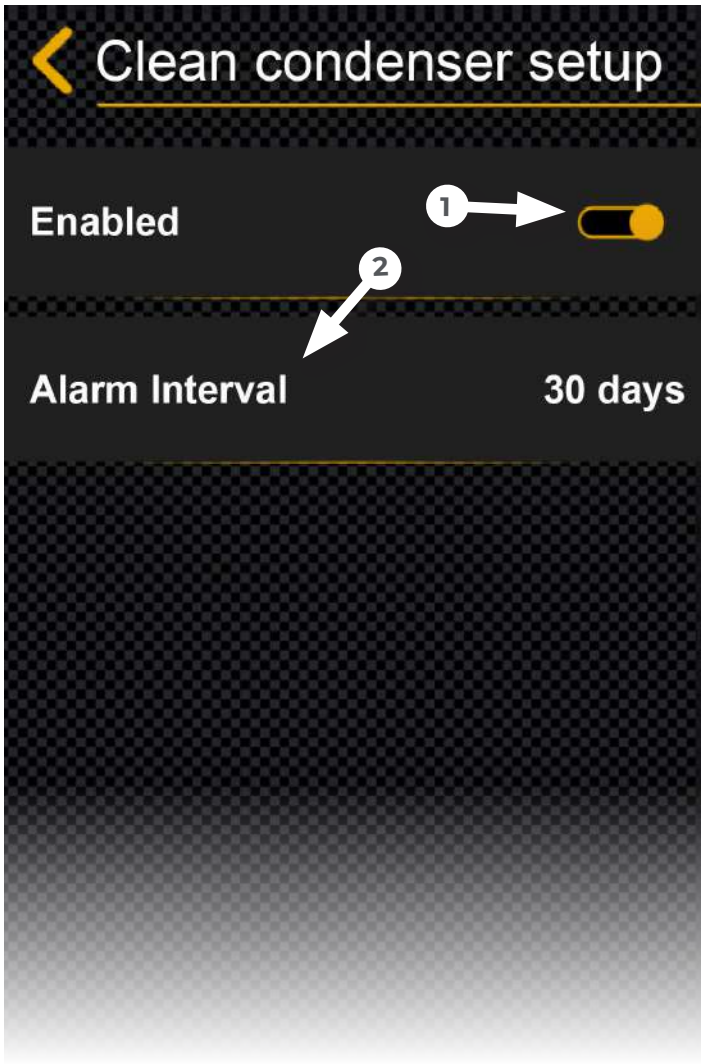


Figure 2-28: Clean Condenser Screen E00117

Probe Adjust

Probe adjust screen is used to adjust the temperature probe reading. This adjustment is used to compensate for mounting location of the probe to the ambient air temperature of the room. Probe 2 will only be displayed if optionally installed.

1. Enter the Main menu. For more information, see “Main Menu” on page 8.
2. Select Technician menu from the Main menu and select Probes adjust.
3. Select the Probe (1) to adjust.
4. Use arrow buttons to select the positive or negative temperature offset in 10° intervals.
5. Select save icon and back arrow button.
6. Select the home button icon to return to the main operation screen or the back arrow to go to the previous screen.

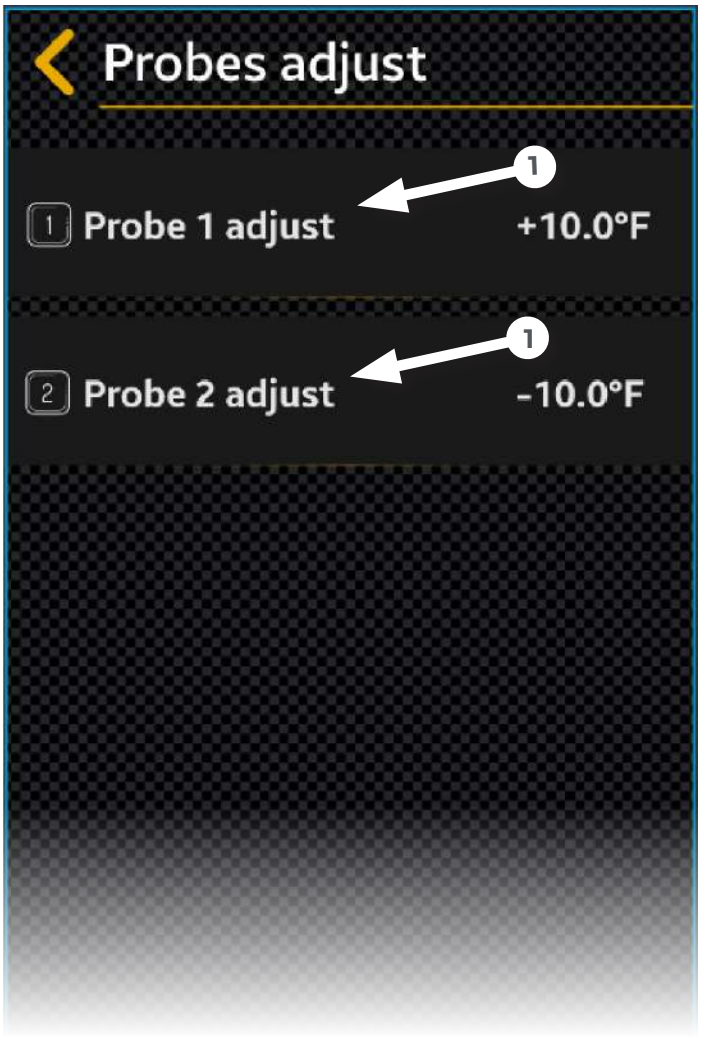


Figure 2-29: Probe Adjust Screen E00056EN

Logger Setup

Logger setup screen is used to set the sampling time for sensor data (periodic events) to be saved in the system memory and cloud server. Optionally, a personal computer can be connected to the SMRT-100 system through a serial connection on the power module, using the Modbus RS485 protocol. For more specific information on connecting a computer, contact Everidge.

NOTICE

Over 100,000 periodic events are stored in the internal memory; all events (periodic events plus alarms) for 1 year of functioning can be stored on the cloud server.

1. Enter the Main menu. For more information, see “Main Menu” on page 8.
2. Select Technician menu from the Main menu and select Logger.
3. Select Logger frequency minutes (1).
4. Use arrow buttons to select the desired time interval.
5. To delete all saved data from the system memory, select Clear events (2). Clearing data from system memory will not affect data saved on the cloud server.
6. Use arrows to select yes or no to delete.
7. Select save icon and back arrow.
8. Select the home icon button to return to the main operation screen or the back arrow to go to the previous screen.

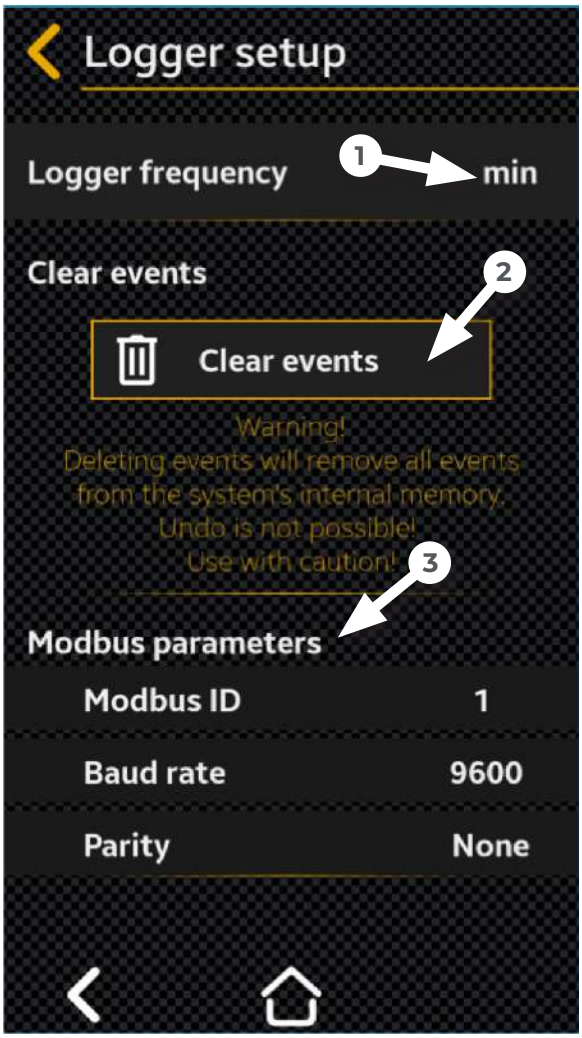


Figure 2-30: Logger Setup Screen E00063EN

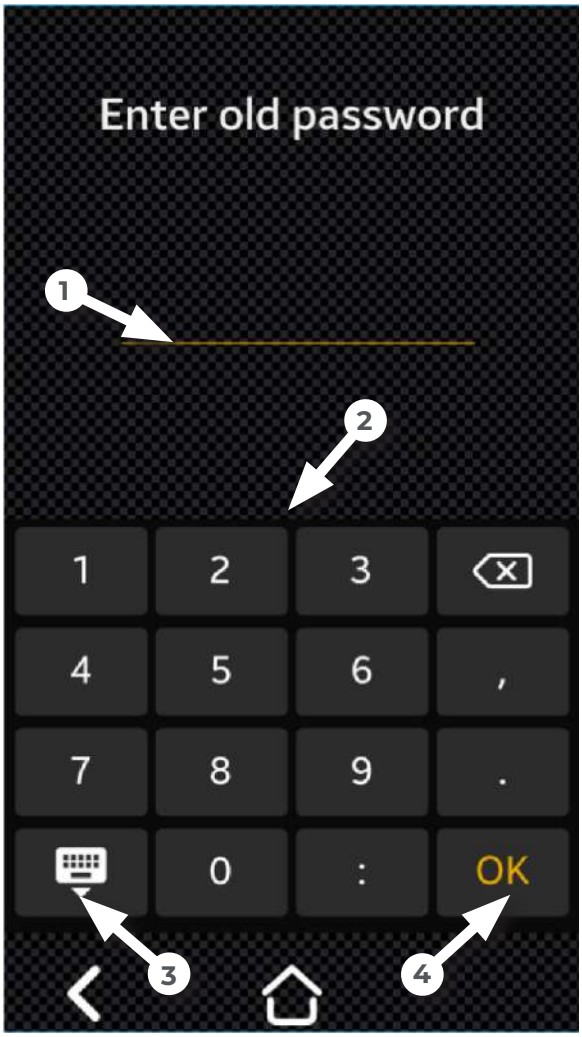


Figure 2-31: Change Password Screen E00066EN

Change Password

Password screen is used for customization of the password.

1. Enter the Main menu. For more information, see “Main Menu” on page 8.
2. Select Change password from the main menu.
3. Use the keypad (2) to enter the current password. If alpha characters are required, select the keyboard icon (3).
4. The password will be displayed in the password field (1).
5. When complete, select OK (4) and enter the new desired password. Select OK again and the display will return to the settings screen.
6. Select the home icon to return to the main operation screen or the back arrow to go to the previous screen.

Reset to Factory Setting

Reset to factory setting screen is used to delete all settings and return to the system’s original state.

1. Enter the Main menu. For more information, see “Main Menu” on page 8.
2. Select Reset to factory settings from the Main menu.
3. Select Load default parameters (1).

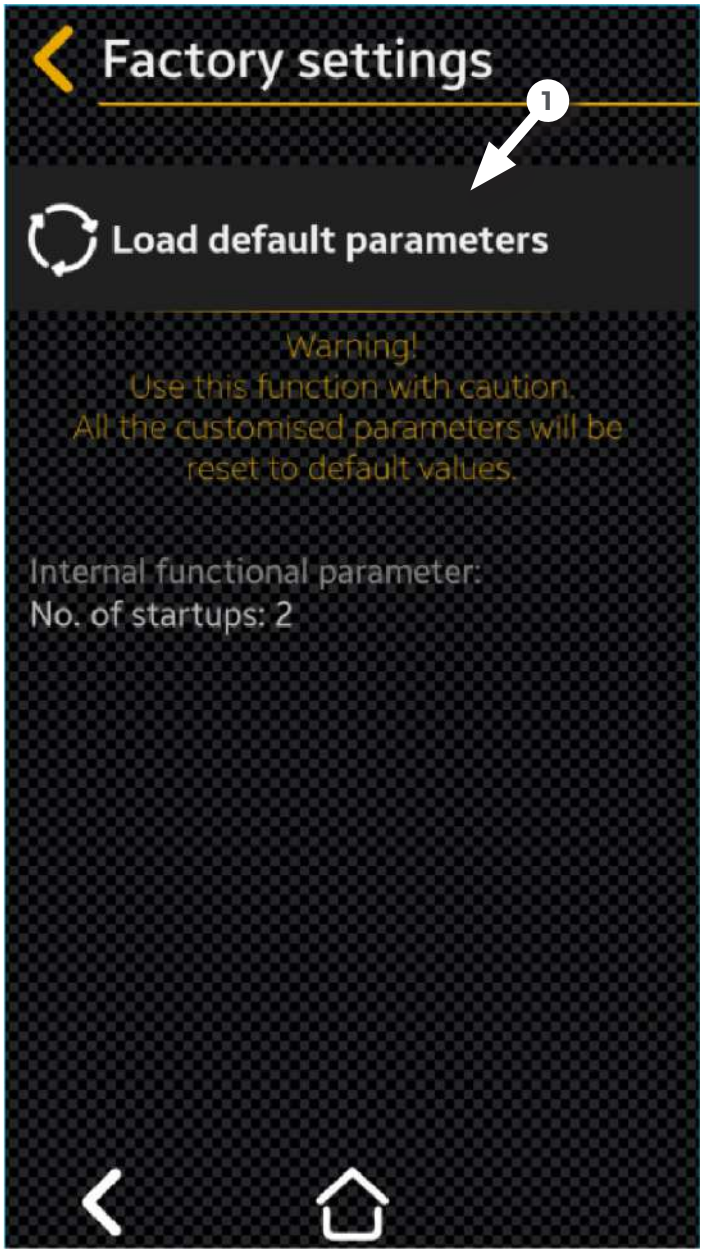


Figure 2-32: Factory Reset Screen E00064EN

About

About screen is used to view system information and to name and edit system devices.

1. Enter the Main menu. For more information, see “Main Menu” on page 8.
2. Select About from the Main menu.
3. System information (1) will be displayed.
4. To edit a Device name (2), select the device name edit icon (3). Enter the desired name from the keyboard displayed.
5. Select save icon and back arrow.
6. Select the home icon to return to the main operation screen or the back arrow to go to the previous screen.



Figure 2-33: About Screen E00065EN

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Chapter 3 System Operation

Introduction

The SMRT-100 system allows the user to view real time temperature and humidity conditions, control optional lighting and accessories, and provide remote notifications and online cloud storage. For more information on setting up features, see “Settings Menu” on page 10.

NOTICE

Working high-speed internet is required for remote notification and cloud data storage to function.



Figure 3-1: Main Operation Screen E00044EN

Display Operation

Table 3-1: Main Operation Screen

Callout	Name	Description
1	Wi-Fi Icon	Displays the connection status to an internet router & the availability of internet
	No Icon	Wi-Fi not enabled
		Wi-Fi with no internet
		Wi-Fi connected to the internet
2	Signal Strength	Displays the current Wi-Fi signal in decibels
3	Battery Status	Displays current battery charge level
4	Room Type Icon	Displays room type
5	Temperature	Displays current temperature in room
6	Temperature Unit	Displays in Fahrenheit or Celsius
7	Uv Icon	UV disinfection device active
8	Clock	Displays current time and date
9	Humidity	Displays percentage of relative humidity
10	Notification Bar	Indicates system alarm
11	Horn Button	Used to acknowledge and silence alarm
12	Light Button	Used to turn optional lights on or off
13	Menu Button	Used to display main menu
14	Ev. Fan Button	Used to enable evaporator fan kill
15	Prohibition Icon	Indicates function disabled

The prohibition icon (15) is displayed when a function is temporarily disabled. This is caused by a user set condition, which prevents a feature from being immediately used.

Alarms

When an alarm is detected, the notification bar will highlight in red and an audible alarm will sound. Touching the notification bar will open a new window with all the current alarms (1). Selecting the corresponding horn button (2) will acknowledge the alarm and silence the audible alarm.

When the system criteria has been met for an alarm, that notification will be removed from the list. For more information, see “Settings Menu” on page 10.

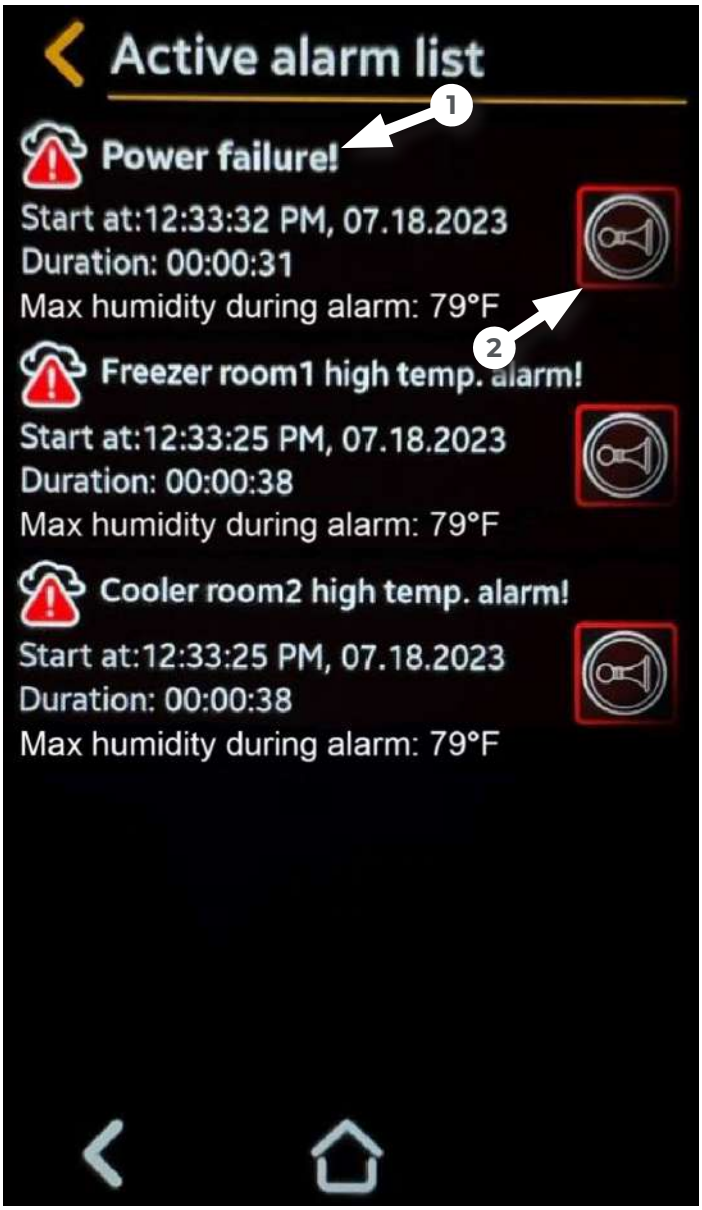


Figure 3-2: Alarm List E00067EN

Alarm Edit

The user can enter minimum and maximum temperature and humidity, door open intervals, and panic situations to trigger alarms. For more information, see “Settings Menu” on page 10.

Everidge App

In order to use notifications and remote viewing, the Everidge app needs to be installed on a smartphone or tablet with internet access.

1. Download the Everidge App on the smart device. The download can be found by scanning the QR App link (1) from the shipping sticker on the display or by searching Everidge SmartRite from where applications are obtained from on the smart device.

Table 3-2: Display Shipping Sticker

Callout	Description
1	QR App Link
2	QR System Information/System Information
3	QR Online Information Link

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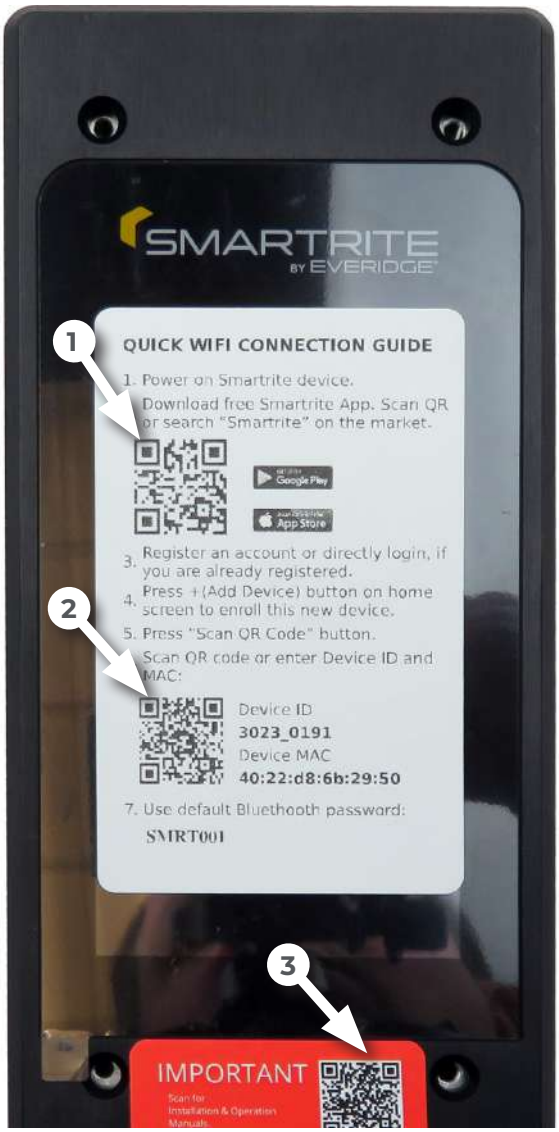


Figure 3-3: QR Code E00106

2. Once the app is downloaded, install the app and select Open (4).

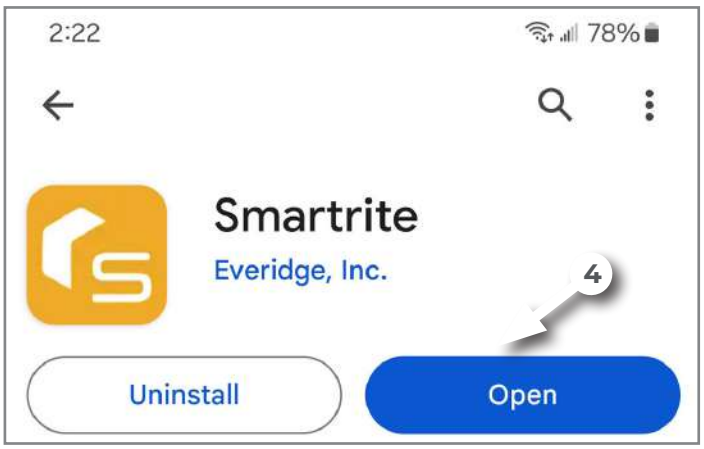


Figure 3-4: App Install E00088

Create an Account

1. Select Register (4) if an account has not previously been set up. If an account has been set up, enter the Email address (1), Password (2), and select Sign in (3).
2. Enter user First name (5), Last name (6), Email address (7), Mobile phone number (8), and Password (9) in the corresponding fields.
3. Create a unique password and enter it in the Password field (9). Re-enter the password in the Confirm password field (10).
4. Scroll the screen down and enter Company details (11).
   *Fields without a red asterisk are optional.

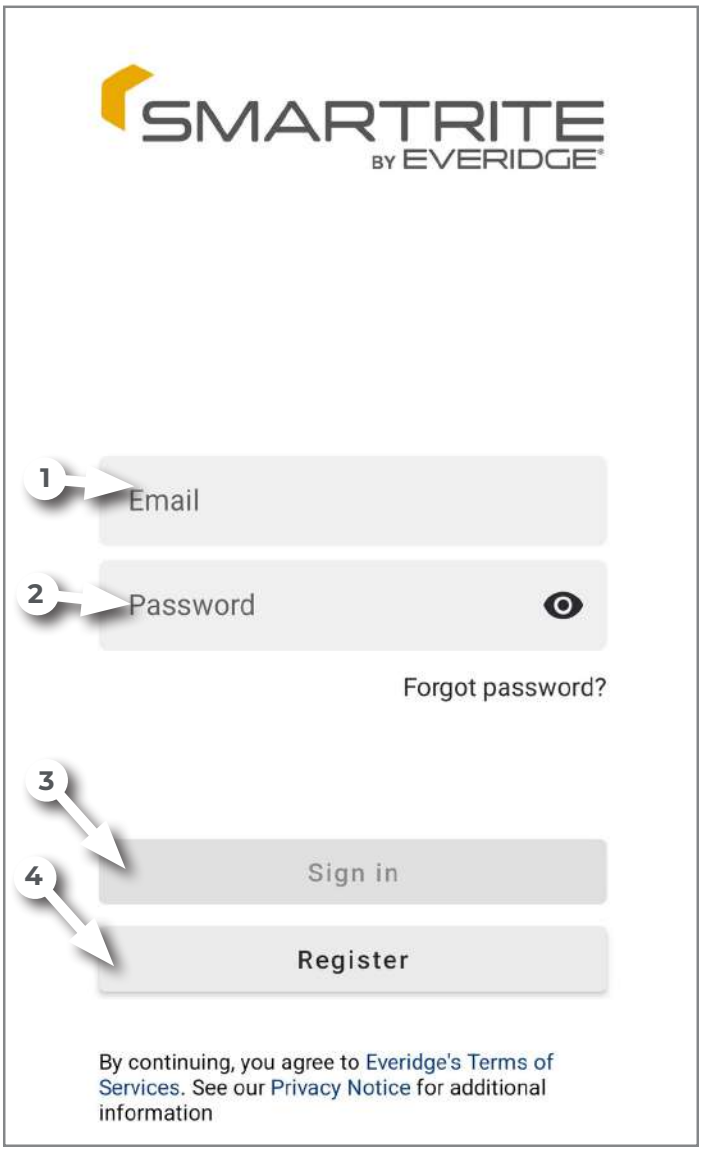


Figure 3-5: Register Account E00089

5. Once details have been entered, select Register my account.
6. A confirmation email will be sent to the user's email address.
7. Record the four-digit Pin number (12).
8. Press the CONFIRM EMAIL button (13).
9. A second confirmation email will be sent. Enter the Pin number into the Pin field (14) and select Confirm account (15).

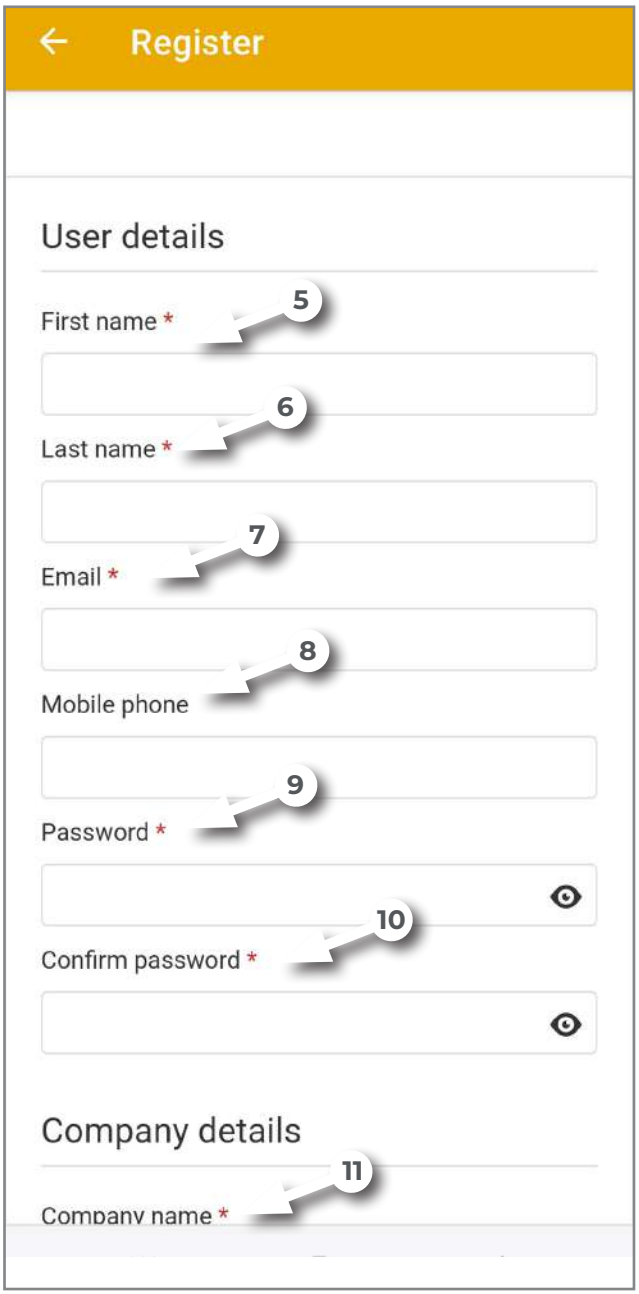


Figure 3-6: Account Information E00090

NOTICE

Record the Personal Identification Number (PIN).

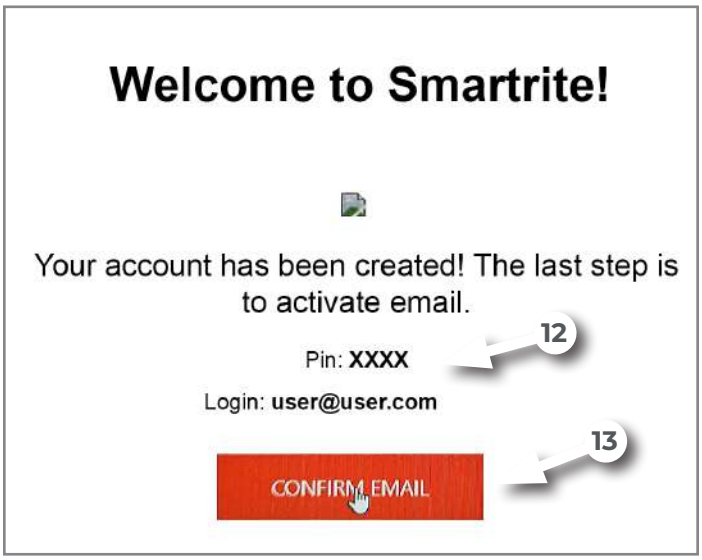


Figure 3-7: Welcome Pin E00091



Figure 3-8: Enter Pin E00108

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Connect Device

Connecting the device to the app can be done in two different ways:

- Manually add device
- Bluetooth® search

Manually Add Device

Before attempting to connect a device to the app, confirm that the SMRT-100 system has Wi-Fi enabled and is set up. For more information, see “Wi-Fi Enable” on page 18.

1. Select the add Device button (6) and Add Device window will open.
2. Locate the device information. This can be found on the shipping sticker from the front of the display or by entering the Wi-Fi menu. For more information, see “Wi-Fi Enable” on page 18.
3. Select the SCAN QR CODE (3). This will cause the smart device camera to open and automatically populate the Device Id (1) and Device Mac (2) fields.
4. If required, the Device Id and Mac information can be manually entered by selecting the field. The device information can be found on the display shipping sticker or by accessing the Wi-Fi menu. For more information, see “Wi-Fi Enable” on page 18.
5. Select the Add button (4).
6. To cancel the process, select Cancel (7)

Bluetooth Search

NOTICE

Smartphone or tablet must be within 10 ft (3 m) of SmartRite TFT to establish a Bluetooth connection.

1. Select the Search (5) button.
2. The smartphone or tablet will display available SMRT-100 systems on a Bluetooth network. Select the device to be added to the app and select Connect.
3. Optionally, Wi-Fi can be set up by Bluetooth if not previously set up in the initial installation.

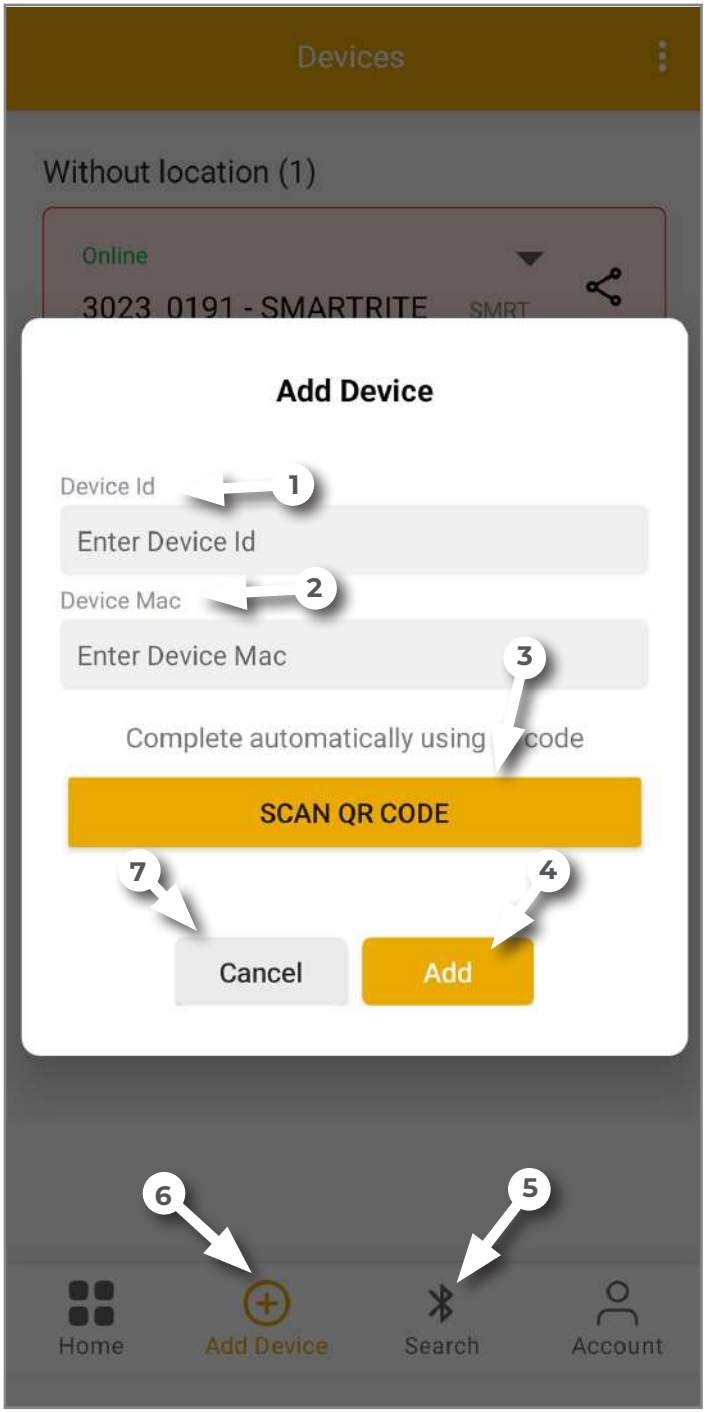


Figure 3-9: Add Device E00093

Notification

If any monitored condition triggers an alarm on the panel, it will immediately send a push notification (1) to the smartphone or tablet. Pressing the notification will automatically launch the event list. For more information, see “Event List” on page 32.

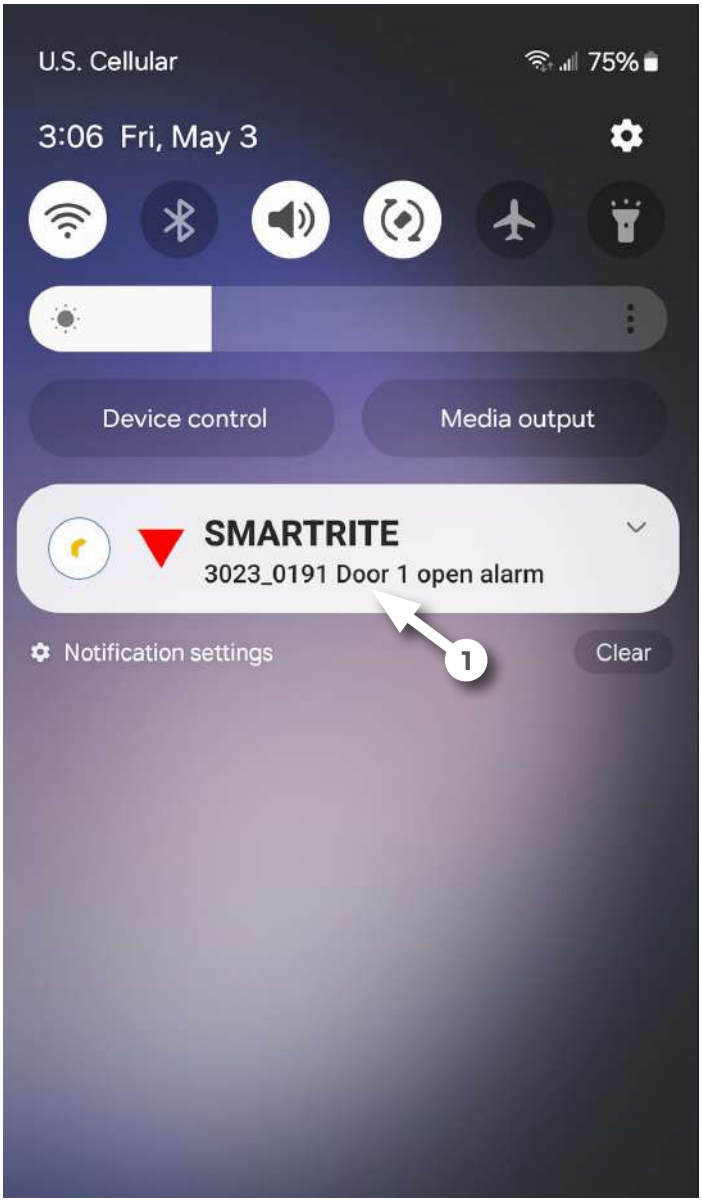


Figure 3-10: Notification E00092

Device List

The device list is the main screen of the app where all the devices assigned to a user are available in the form of extendable cards. The example below has two rooms, room one (1) and room two (2). Selecting a device box will expand the card. Select button (3) will launch the event list for that device.

The device list cards are color coded to display the device status.

Green

- Indicates the device is online and transmitting live events to the app.

Grey

- Indicates the device is offline and not able to transmit information to the app.

Red

- Indicates the device is online and transmitting live events to the app and has an active event (Alarm).

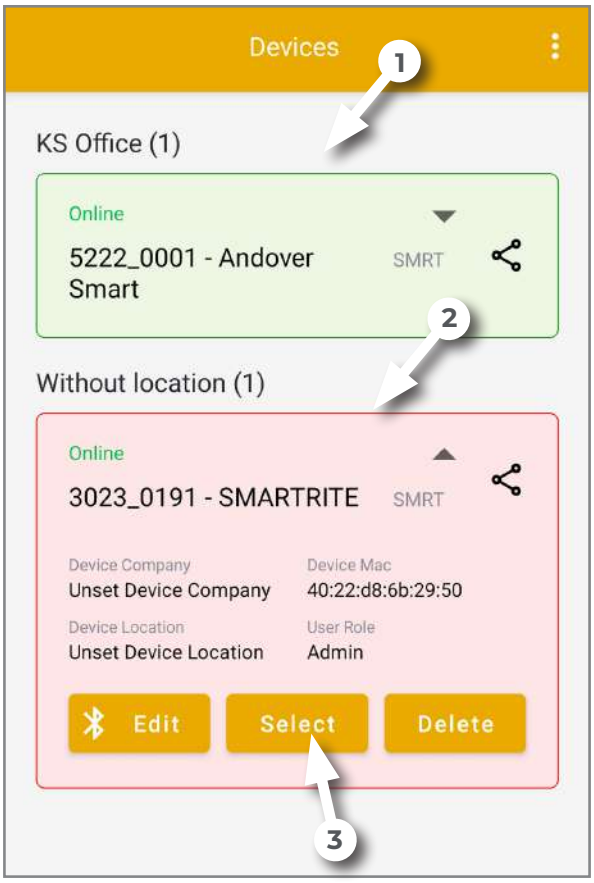


Figure 3-11: Two Room Device E00107

Event List

By default, the monitoring period is set for 1 hour. To view longer durations, see “Event History” on page 34.

1. To view the event list, select a device from the device list and select the device. For more information, see “Device List” on page 32.
2. To display temperature or humidity, select either Temperature (1) or Humidity (2)

3. To select Fahrenheit or Celsius, select the temperature unit drop-down icon (3). If more than one room is enabled, select the room drop-down icon (4) to select the room displayed.

Table 3-3: Event List	
Callout	**Description**
1	Temperature Select
2	Humidity Select
3	Temperature Unit Select
4	Room Display
5	Date/Time
6	Event Type (Red Alarm/Blue Normal Record Point)
7	Event Description
8	Sensor Value Reading

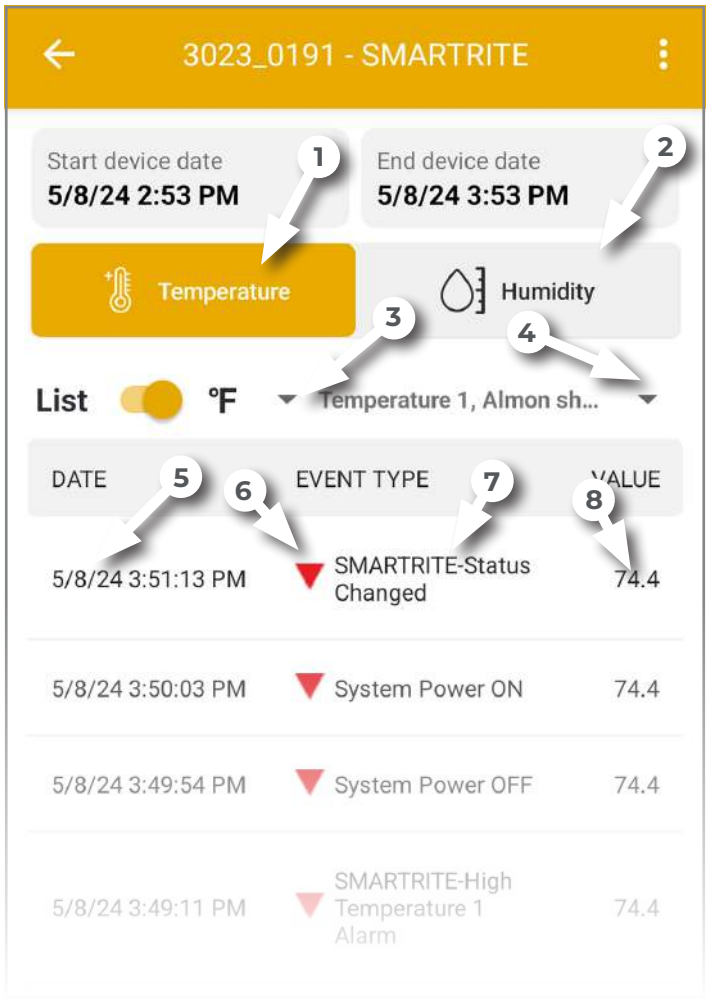


Figure 3-12: Event List E00094

Event Detail

Event detail shows specific information regarding an event.

Table 3-4: Event Detail	
Callout	**Description**
1	Device Id And Name
2	Graph Icon To Launch View Graph Screen
3	Event Date And Time Window
4	System Condition At Time Of Event
5	Probe Readings At Time Of Event
6	Inputs Drop-Down To Display A List Of Sensor Inputs Involved In An Event
7	Outputs Drop-Down To Display A List Of The Control Outputs Involved In An Event

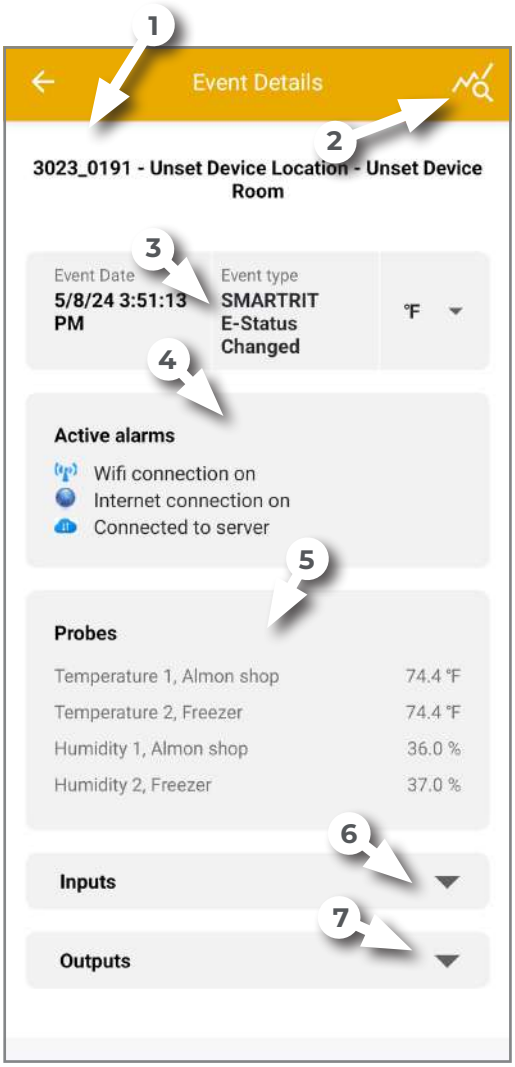


Figure 3-13: Event Detail E00097

View Graph

The view graph feature displays a visual representation of sensor readings over time.

By default, only the last hour of events are displayed. To view longer durations, see “Event History” below.

1. Select the list slide button (3) from the event list. For more information, see “Event List” on page 32.

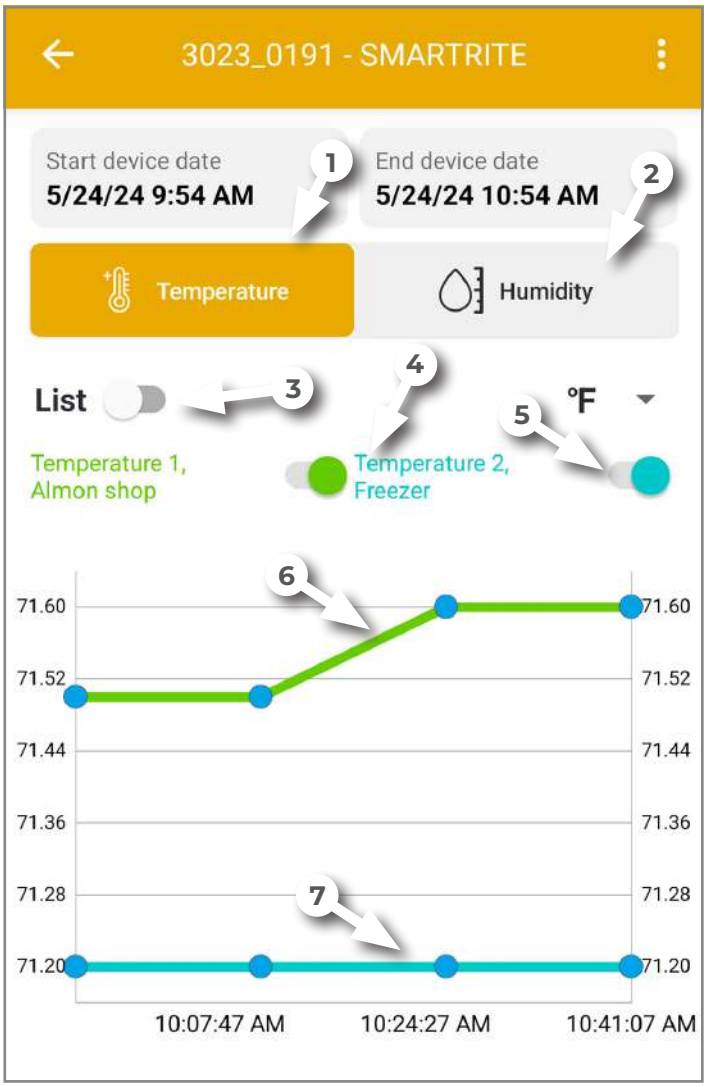


Figure 3-14: View Graph E00096

Table 3-5: View Graph	
Callout	**Description**
1	Temperature Select
2	Humidity Select
3	List/Graph View Slide Button
4	View Room One Button
5	View Room Two Button (If Applicable)
6	Room One Graph Line
7	Room Two Graph Line (If Applicable)

Event History

By default, the monitoring period is set for 1 hour.

NOTICE

The maximum period for accessing and displaying the history from the app cannot exceed the interval of 14 calendar days. For an extended view, users must log into the SmartRite Cloud server. See https://smartrite.everidge.com/ Account.

1. Select the Start device date (1).
2. Select the date (4) from the calendar and press OK (6). To change the date or cancel, press CANCEL (5).
3. Rotate the clock hand (10) to select the hour. The hour will be displayed in the hour field (7). Press OK (12). Optionally the time can be manually entered by pressing the keyboard icon (11).
4. After pressing OK, the clock hand will change to minutes. Rotate the clock hand and the minutes will be displayed in the minutes field (8). Select either AM or PM icon (9) and press OK.
5. Select the End device date (2). Follow the instructions from step 2.

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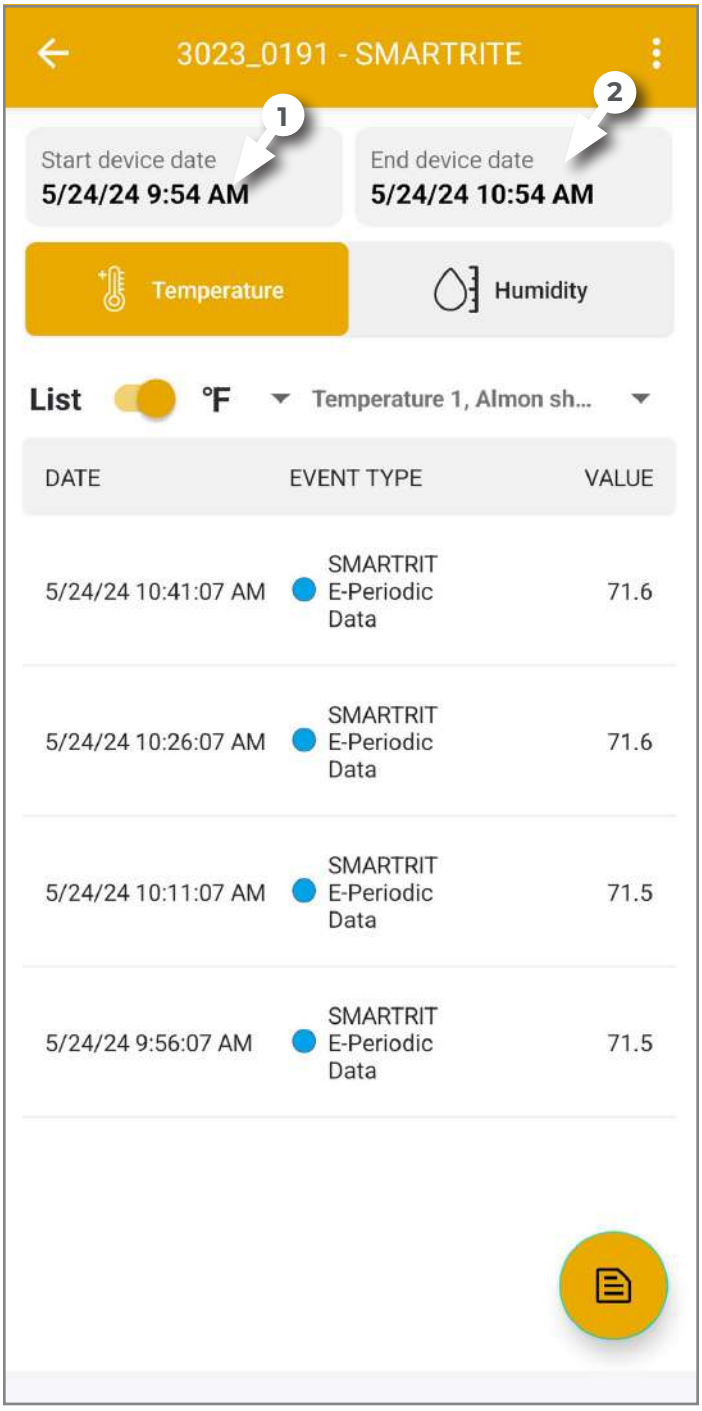


Figure 3-15: Event History E00095

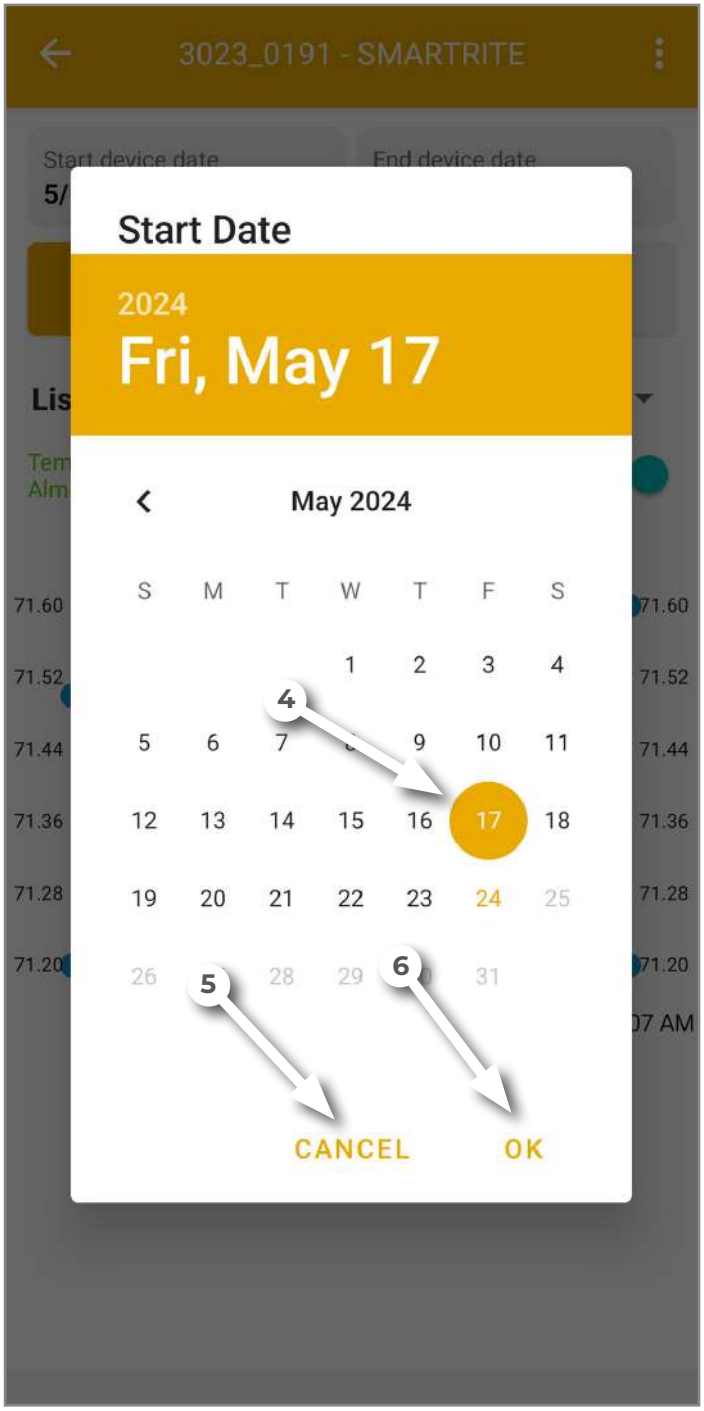


Figure 3-16: Enter Date E00098

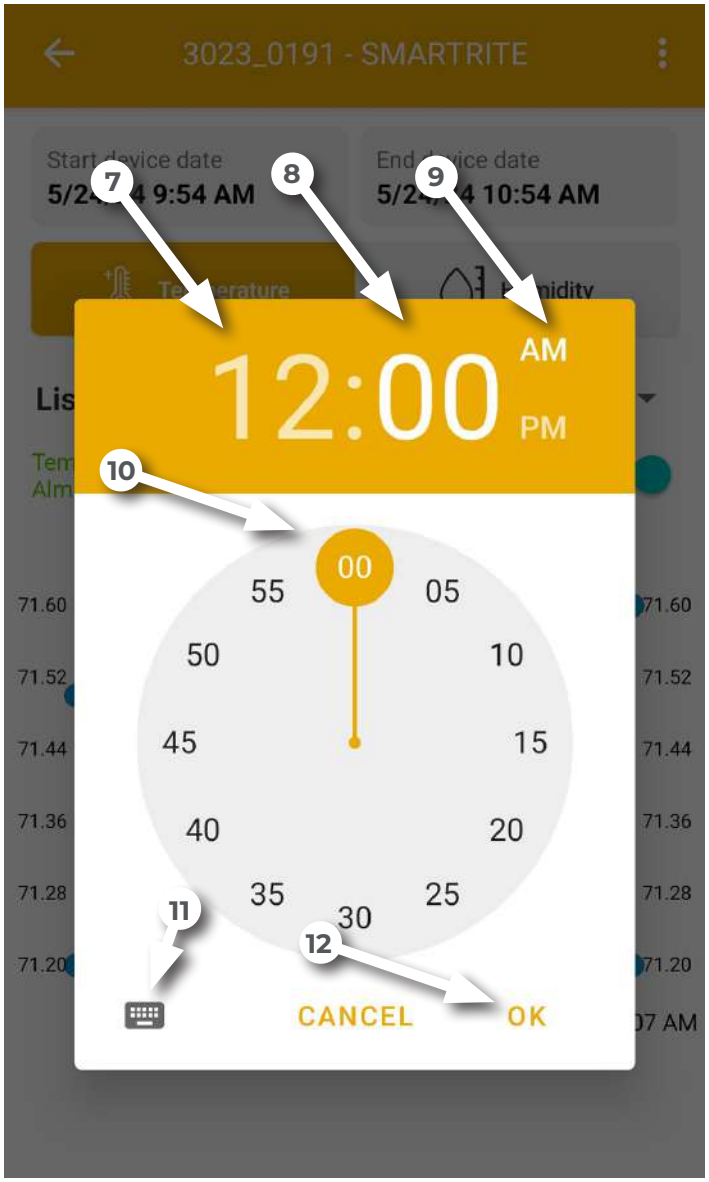


Figure 3-17: Enter Time E00099

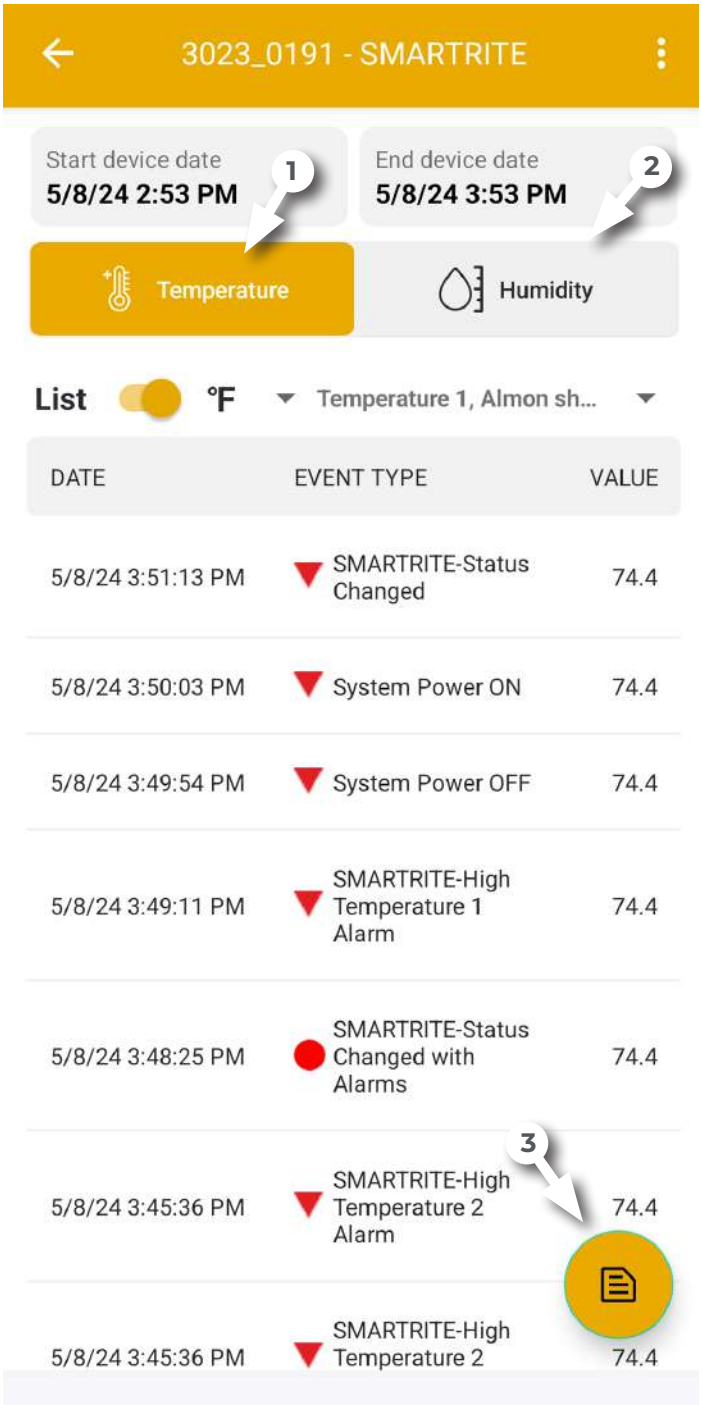


Figure 3-18: Export to CSV File E00094

Event Export to CSV File

Event export allows the user to download a comma-separated value (CSV) file from an event log to the smartphone or tablet. The app can automatically convert the file for sharing via email or to archive for future analysis.

1. Select the start and stop event history. For more information, see “Event History” on page 34.
2. Select Temperature (1) or Humidity (2) for the type of data to be downloaded.
3. Select the file button (3) to begin download.

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Add Shared User

Device sharing allows the primary user to share monitoring services with other users. The privileges of the shared user can be defined by the primary user in three different levels.

Administrator

- Has full access to share, monitor, and configure all devices.

Power User

- Has limited access to monitor and configure a specific device.

User

- Only has the ability to monitor the device.

1. Select the device (1) to share.
2. Select the share icon (2).
3. Select the Role drop-down (4) and choose a shared user privilege level. See “Figure 3-24: Change Role Type” on page 39.
4. Enter the Email address (5) of the user to be shared and select Assign Device (7).
5. The shared user will receive an email with all the required information to complete the process.

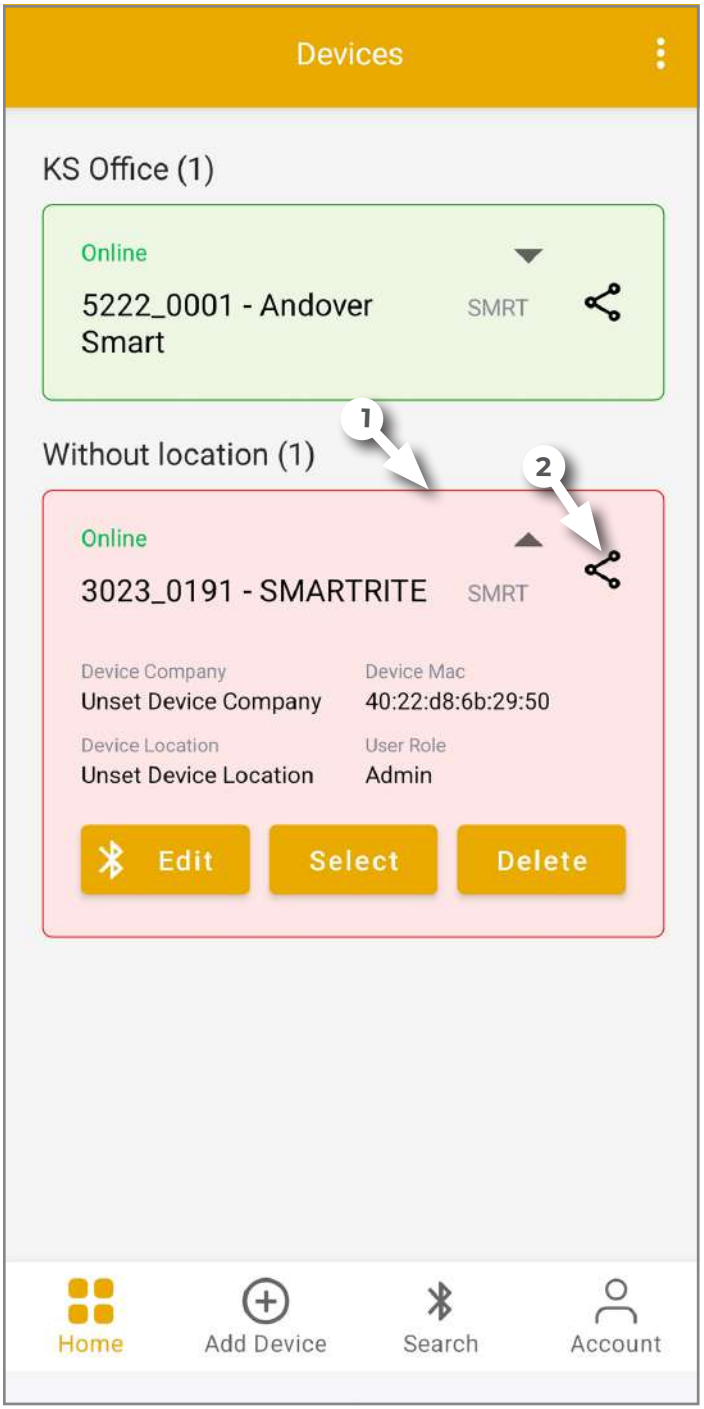


Figure 3-19: Select Share Device E00107

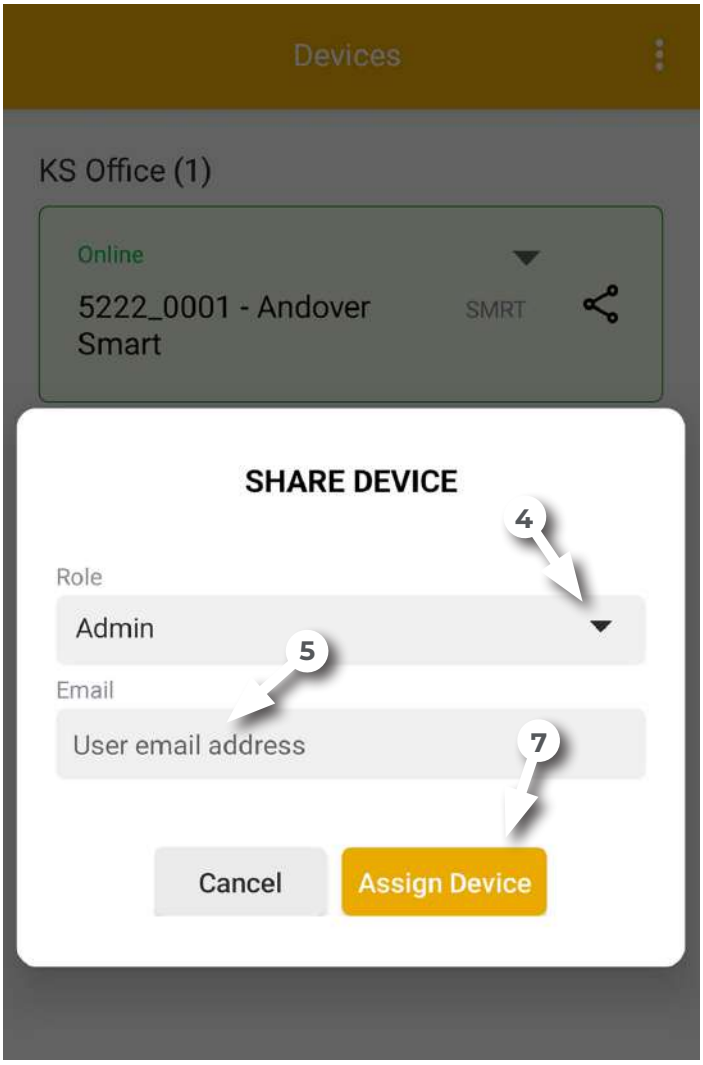


Figure 3-20: Share Device with User E00104

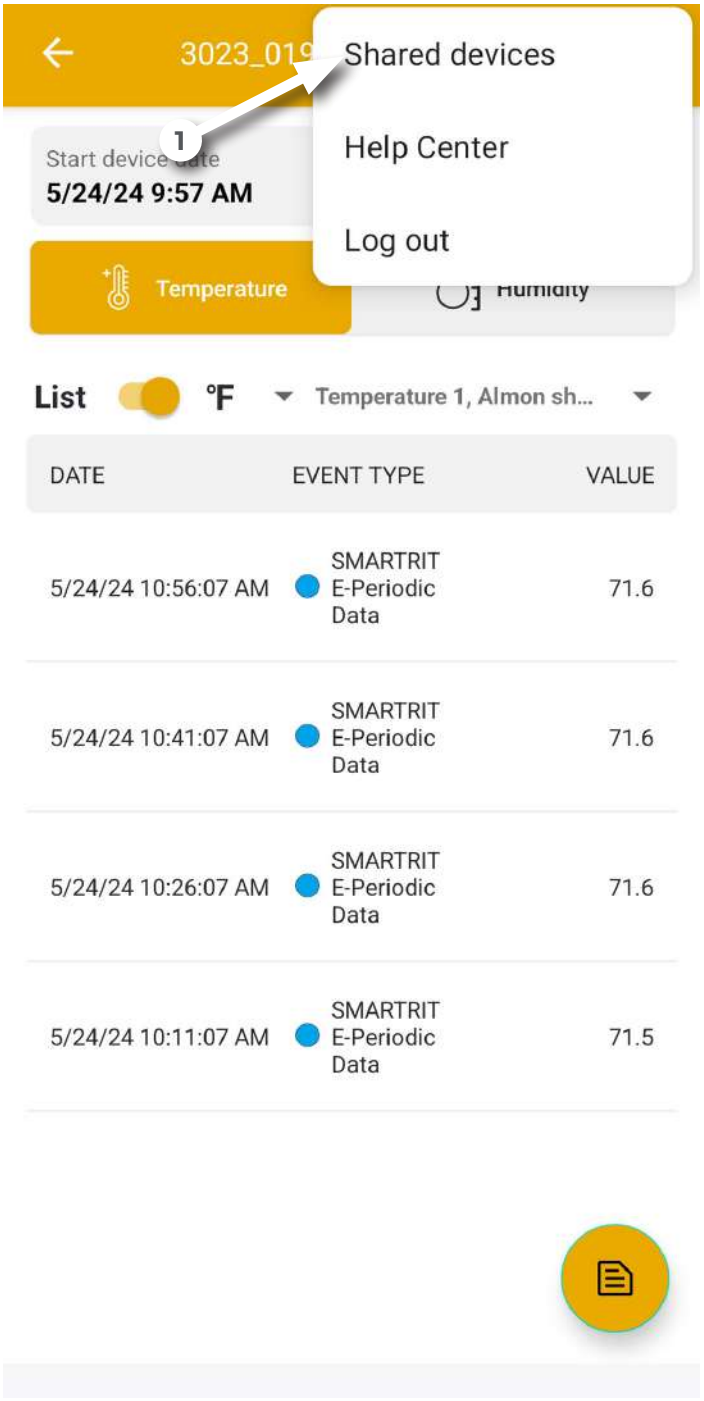


Figure 3-21: Shared Devices E00100

View Shared Devices

View shared devices allows the user to view what devices are shared and to what users they are associated with.

1. Select the three dot icon on the top right of the event list.
2. Select Shared devices (1).
3. Each device Id (2) will be displayed in a list.
4. Select Change Role (4) to assign a different privilege. For more information, see “Change Role” on page 39.
5. Select Unassign (5) to remove the user.
6. Select the share icon (3) to add an additional shared user. For more information, see “Add Shared User” on page 37.

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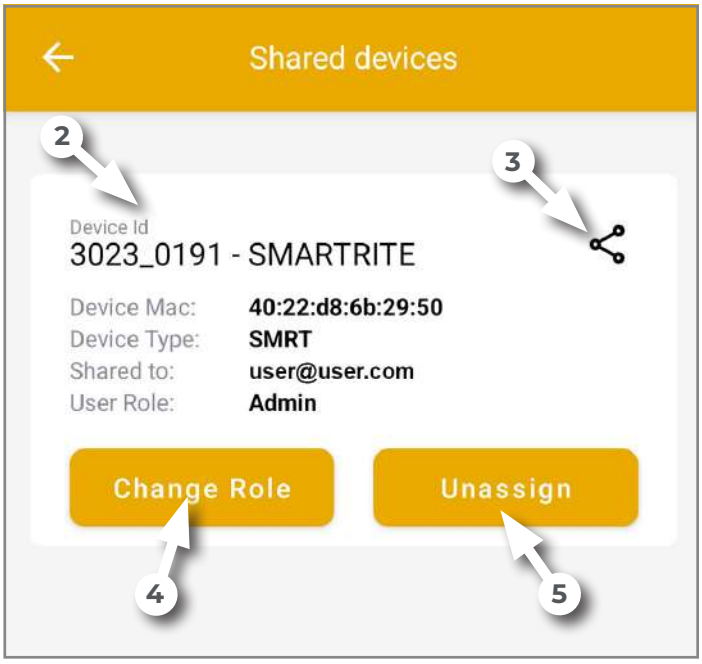


Figure 3-22: Device Information E00101

Change Role

1. From the shared user screen, select the Role drop-down (1) and select the desired role (3—5). For more information on roles, see “Add Shared User” on page 37.
2. Press OK (2) to save role.

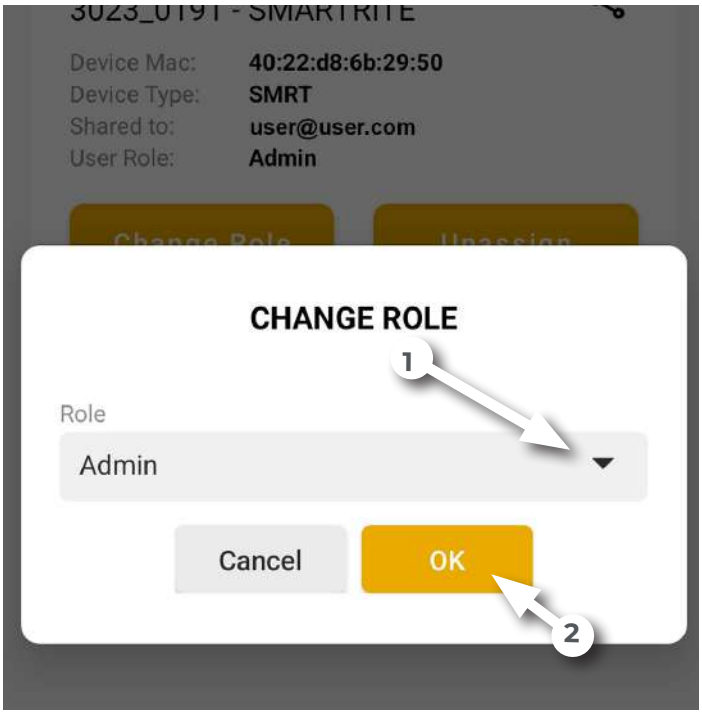


Figure 3-23: Change Role E00102

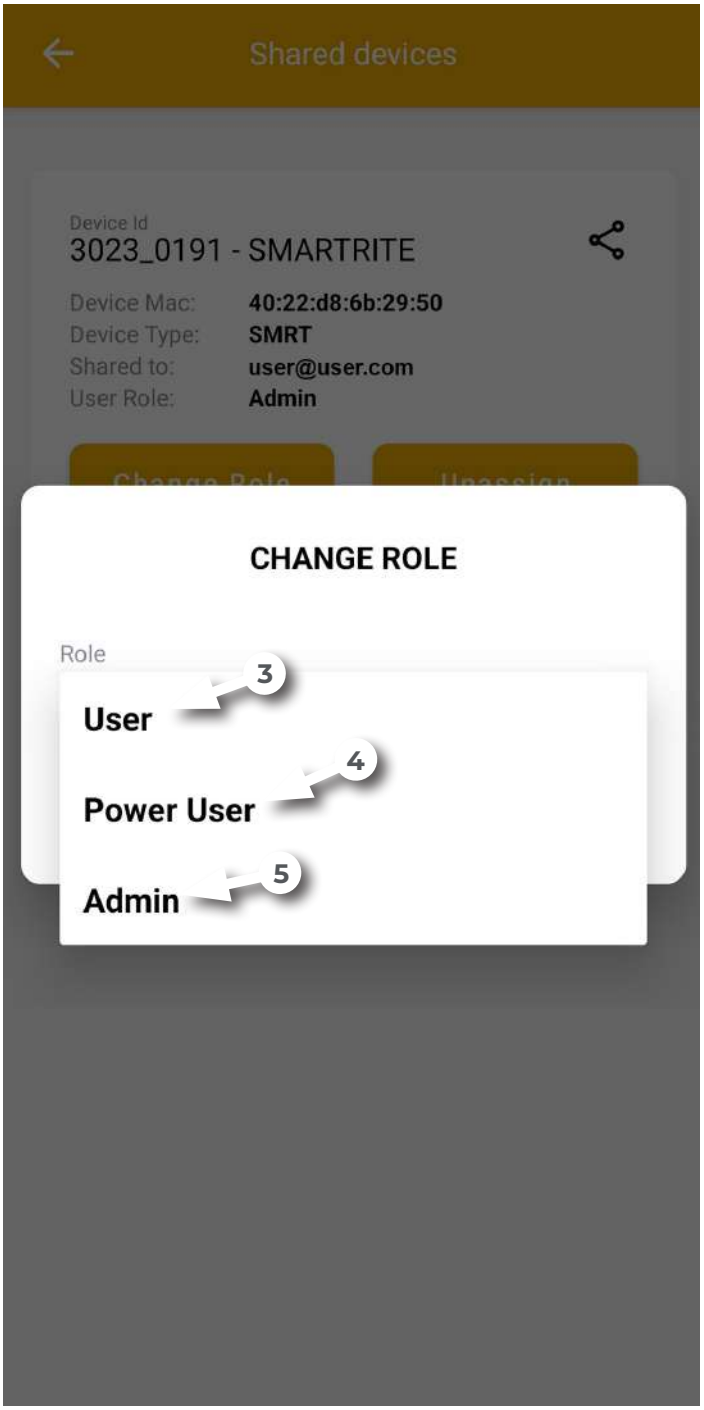


Figure 3-24: Change Role Type E00103

Delete Device

The delete device allows the user to remove a SMRT-100 system from the app.

1. From the device screen, press Delete (2) and Yes (1).

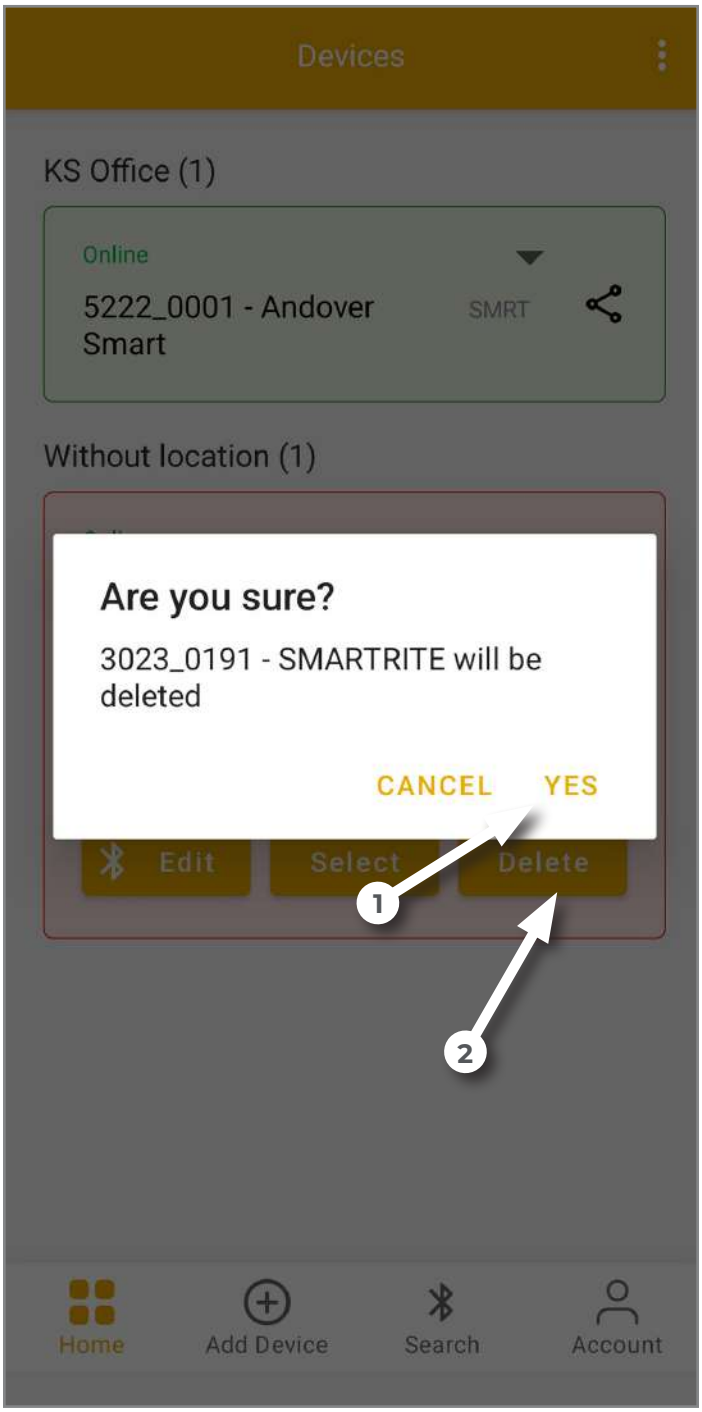


Figure 3-25: Delete Device E00105

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Chapter 4
Troubleshooting & Error Codes

Troubleshooting

System Does Not Power Up

⚠ CAUTION

Servicing and inspection of high voltage electrical systems must be conducted by a licensed electrician.

⚠ CAUTION

All power supplies must be disconnected prior to servicing any powered device, to prevent electrical shock and damage to equipment and devices.

1. Inspect electrical distribution panel for tripped circuit breaker or blown fuse.
2. Remove cover from power module enclosure and confirm presence of 120 volts AC to power module. If voltage is not present, inspect or replace AC wiring. If voltage is present, continue to step 3.

⚠ CAUTION

Only replace fuse with approved rating. Serious damage to electrical equipment can occur if a larger rated fuse is installed.

3. Disconnect power from electrical distribution panel. Remove and test fuse in power module. If fuse tests open, replace with 15 amp tube fuse and restore power.
4. Check for illuminated lights on the power module. If no lights are visible, remove and replace the power module. If lights are visible, proceed to step 5.

⚠ CAUTION

Wires connected to the power module must be stripped to the correct length. Bare wire must not be visible coming out of the connectors to reduce the risk of short circuits.

5. Check for disconnected, loose, and damaged wires connected to the power module and display. Remove and replace wires as necessary. If wires test good, remove and replace the display.

System Does Not Display

Temperature/Humidity

1. If a second sensor is being used, confirm that it is enabled. For more information, see “Number of Probes” on page 18.
2. Inspect placement of the temperature/humidity sensor. The sensor cannot be blocked or obstructed for correct operation.
3. Inspect wire from sensor to power module enclosure. Replace or repair wire as necessary.
4. Remove cover on power module enclosure and inspect for disconnected, loose, and damaged wires. If wires and connections test good, replace temperature/humidity sensor.

Motion Activation Does Not Function

Confirm motion switch is enabled. For more information, see “Motion Detector” on page 16.

1. Inspect placement of the motion switch. The switch cannot be blocked or obstructed for correct operation.
2. Inspect wire from switch to power module enclosure. Replace or repair wire as necessary.
3. Remove cover on power module enclosure and confirm jumper wire is removed on connections that have a motion switch connected.
4. Inspect for disconnected, loose, and damaged wires. If wires and connections test good, replace motion switch.

Remote Viewing Does Not Function

NOTICE

Reliable high-speed internet must be available for remote viewing, notifications, and cloud storage to function.

1. Confirm internet operation.
2. View Wi-Fi status on system display. For more information, see “Figure 3-1: Main Operation Screen” on page 27.
3. Perform a network reconnect on the system display. For more information, see “Wi-Fi Enable” on page 18.
4. If no available network is found, confirm presence of Wi-Fi with another device at the display location. If Wi-Fi is available and functioning at the location, remove and replace the display.

Evaporator Fan Control with No Function

1. Confirm evaporator fan function is enabled. For more information, see “Evaporator Fan Control Setup” on page 13.
2. Inspect wire from fan kill relay to power module enclosure. Replace or repair wire as necessary.
3. Remove cover on power module enclosure and inspect for disconnected, loose, and damaged wires.
4. With the help of an assistant, check for a “click” coming from the fan kill relay when it should engage. If the relay “clicks”, suspect the evaporator fan circuit board or wiring.

Lights with No Function

1. Confirm that the light control feature is enabled. For more information, see “Light and Door Setup” on page 14.
2. Turn the lights on from the display & confirm that the indicator shows the lights are on. If the display indicates the lights are on and the lights do not function, proceed to step 3.
3. Inspect wires from optional switch(s), display, and lights to power module enclosure. Replace or repair wires as necessary.
4. Remove cover on power module enclosure and inspect for disconnected, loose, and damaged wires. If wires and connections test good, replace power module.

Lost Password

1. Select menu from the main operation screen and the password screen will be displayed.
2. Press the back button (1) twice and the Load default password screen will be displayed.
3. Use the arrow buttons (2) to select YES and press save icon (3).
4. Select the home button (4) to return to the main operation screen or the back button (5) to go to the previous screen.

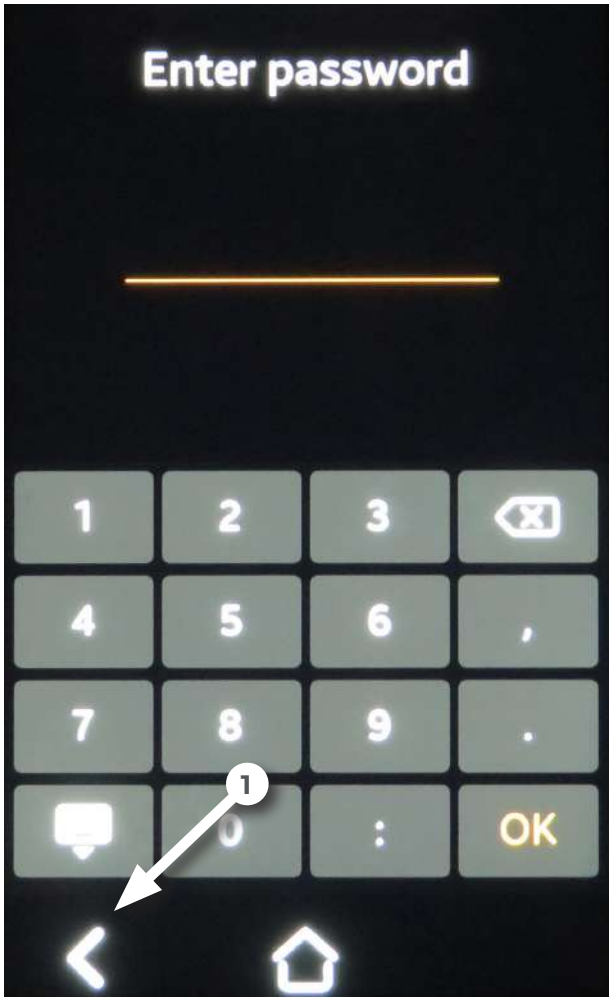


Figure 4-1: Enter Password E00081EN

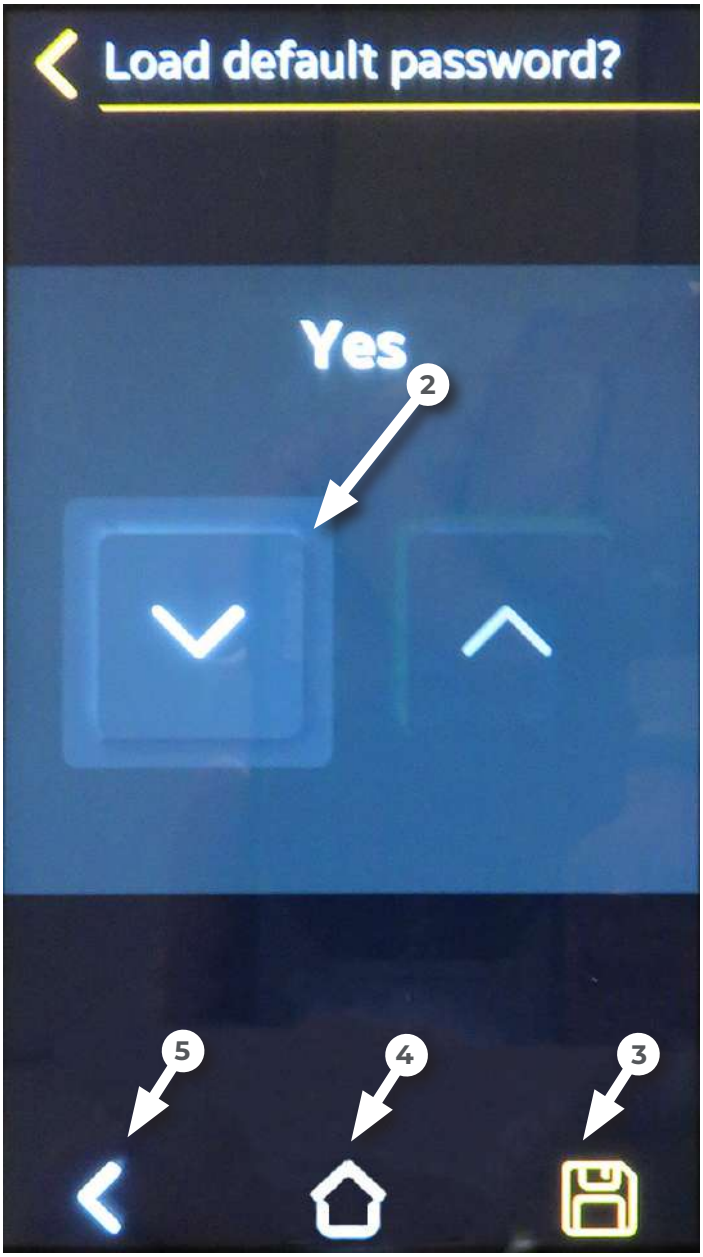


Figure 4-2: Load Default Password E00109EN

Table 4-1: Default Password
1 2 3 4

Error Code

When an error is detected on a sensor, the display will show “NG” in the temperature field (1) and the humidity indication (3) will go blank. Additionally, the heating icon (2) will be displayed when a sensor malfunction occurs.

During a sensor malfunction, the system will automatically engage the heater at a 50 percent pulse duration mode to prevent door icing if equipped. When the malfunction is resolved the system will return to normal operation.



Figure 4-3: Error Code E00122

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