



# WALK-IN MONITOR SYSTEM



## SMRT-100 Installation Manual

Intentionally Left Blank

# Table of Contents

<b>About This Manual</b> .....	<b>1</b>
<b>Safety Notices</b> .....	<b>1</b>
Safety Summary .....	1
Safety Labels .....	2
Prepare for the Job .....	2
Installation Tools and Equipment .....	2
Keep the Work Area Clean .....	2
Use Proper Head, Eye, and Foot Protection .....	2
Lifting Safely .....	2
Servicing Electrical Components .....	3
Arc Flash .....	3
<b>Conform to Applicable Electrical Codes and Regulations</b> .....	<b>3</b>
Dispose of Waste Materials Safely .....	4
<b>Specifications</b> .....	<b>4</b>
Model and Serial Number Identification .....	4
<b>Introduction</b> .....	<b>5</b>
Alarms and Notifications .....	5
Equipment .....	5
<b>Kit Contents</b> .....	<b>7</b>
Factory Installed, Field Assembled Panel Kit .....	7
Retrofit Kit .....	7
Additional Temperature/Humidity Probe Kit .....	7
Light Switch Kit .....	7
Panic Switch Kit .....	7
Motion Switch Kit .....	7
Additional Door Switch Kit .....	7
Fan Kill Switch Kit .....	7
Weatherproof TFT Display Cover .....	8
Multiway Kit .....	8
<b>Standard Components</b> .....	<b>8</b>
Thin Film Transistor Display (TFT) .....	8
TFT Enclosure 16GA .....	8
Battery .....	9
Temperature and Relative Humidity (RH) Sensor .....	9
Flush Mount Magnetic Door Switch .....	9
External Mount Magnetic Door Switch .....	9
Power Base/Enclosure .....	10
Adhesive Tape .....	10
<b>Optional Components</b> .....	<b>10</b>
SmartRite External Light Switch .....	10
SmartRite Panic Switch .....	10
Motion Detector Switch .....	11
Jamb Heater .....	11
View (VU) Port Heater .....	11
Everidge UV Pro by Aerapy® .....	11
Light Base .....	11
Audible Alarm .....	12
Fan Kill Relay .....	12
<b>Conduit and Fittings</b> .....	<b>12</b>
1/2 Inch NMLT Conduit .....	12
Single Gang Box .....	12
1/2" NMLT Straight Conduit Fitting .....	12
PVC Male Adapter .....	13

PVC Female Adapter	13
Large Grommet	13
Small Grommet	13
Metal Elbow	14
PVC Entrance Elbow	14
Roof Boot	14
Ground Fault Circuit Interrupter (GFCI) Receptacle (for UV Pro by Aerapy® device)	14
Base TFT Chase SmartRite	15
Extension TFT Chase SmartRite	15
Weatherproof Outlet Cover	15
Multiway Connector	15
Clear Weatherproof Cover	16
Fasteners	16
<b>Wire</b>	<b>16</b>
4 Conductor Cable	16
2 Conductor Cable	16
14 GA Black Stranded Wire	17
14 GA White Stranded Wire	17
14 GA Green Stranded Wire	17
14 GA Red Stranded Wire	17
14 GA Orange Stranded Wire	17
14 GA Purple Stranded Wire	17
22 GA Black Stranded Wire	17
22 GA Green Stranded Wire	17
22 GA Red Stranded Wire	17
<b>Installation</b>	<b>18</b>
One Piece Installation	18
Field Assembled Panel Installation	18
TFT and Flush Mount Wiring Box	18
Magnetic Door Switch	18
Power Base/Enclosure	18
Temperature and Relative Humidity (RH) Sensor	20
Optional Motion Switch	21
Optional Interior Flush Mount Light Switch	21
Optional Interior Flush Mount Panic Switch	21
<b>Installation</b>	<b>22</b>
TFT and Flush Mount Wiring Box	22
Power Base/Enclosure	22
Temperature and Relative Humidity (RH) Sensor	24
Magnetic Door Switch	25
Motion Switch	25
Interior Surface Mount External Light Switch	26
Interior Surface Mount Panic Switch Box	27
Ground Fault Circuit Interrupter (GFCI) Receptacle.	28
Everidge UV Pro by Aerapy	28
Jamb Heater	28
View (VU) Port Heater	29
Light Base	29
Fan Kill Relay	30
Multiway Installation	30
<b>Location Diagrams</b>	<b>31</b>
<b>Component Wiring Installation</b>	<b>33</b>
Thin Film Transistor (TFT) Display	33
Multiway Display	33

Temperature and Relative Humidity (RH) Sensor	33
Door Switch	34
External Light Switch	34
Panic Switch	34
Motion Switch	34
Light Wiring	35
Jamb Heater	35
View (VU) Port Heater	35
Everidge UV Pro by Aerapy®	36
Evaporator Fan Control	36
System Power	36
<b>Wire Schematic</b>	<b>38</b>
<b>Display Introduction</b>	<b>39</b>
Initial Power Up	39
<b>Main Menu</b>	<b>40</b>
<b>System Language</b>	<b>41</b>
<b>Settings Menu</b>	<b>42</b>
Date and Time Setup	42
Room Type Setup	43
Alarm Parameter Setup	44
Heater Setup	45
Evaporator Fan Control Setup	45
Light and Door Setup	46
<b>Technician Menu</b>	<b>47</b>
Temperature Unit	47
Panic Switch	48
Motion Detector	48
Sleep Mode	49
Number of Probes	50
Wi-Fi Enable	50
Brightness	53
Sanitation Cycle Setup	53
Clean Condenser Alerts	54
Probe Adjust	55
Logger Setup	55
<b>Change Password</b>	<b>56</b>
<b>Reset to Factory Setting</b>	<b>56</b>
<b>About</b>	<b>57</b>
<b>Introduction</b>	<b>58</b>
<b>Display Operation</b>	<b>58</b>
Alarms	59
Alarm Edit	59
<b>Everidge App</b>	<b>59</b>
Create an Account	60
Notification	62
Device List	63
Event List	63
View Graph	65
Event History	65
Event Export to CSV File	67
Add Shared User	68
View Shared Devices	69
Change Roll	70

---

Delete Device . . . . .	71
<b>Troubleshooting . . . . .</b>	<b>72</b>
System Does Not Power Up . . . . .	72
System Does Not Display Temperature/Humidity . . . . .	72
Motion Activation Does Not Function . . . . .	72
Remote Viewing Does Not Function . . . . .	73
Evaporator Fan Control with No Function . . . . .	73
Lights with No Function . . . . .	73
Lost Password . . . . .	73
<b>Error Code . . . . .</b>	<b>74</b>

### About This Manual

This manual contains individual component and installation information regarding the Everidge SmartRite<sup>®</sup> SMRT-100 environmental monitoring system. The manual is designed to serve as an installation aid for the install technician and may be used as an installation guide for installation training.

This manual is divided into individual chapters. Each chapter covers a specific topic regarding the installation, setup, and operation of the SMRT-100.

The installation technician should become familiar with the operation, connections, and mounting methods of each component before attempting an installation. This manual will assist the installation technician in becoming more knowledgeable and efficient with installation procedures for the SMRT-100. Such efficiency saves time and labor and improves customer satisfaction.

When using this manual as a guide, the installation technician should use discretion. Different installation environments may pose unforeseen circumstances that may not be described within this manual.

At the time of publication, all information, photographs, and illustrations were technically correct. Some photographs used in this manual are used for illustration purposes only and are not designed to depict actual conditions.

All materials and specifications within this manual are subject to change without notice. Keep this manual accessible for reference.

### Safety Notices

This manual contains specific Warning, Caution, and Notice tags to emphasize important information. The tag WARNING identifies personal safety-related information. Be sure to follow the directive because it identifies the possibility of severe personal injury or even death. A CAUTION identifies unsafe practices which may result in system-related damage. Follow the directive because it identifies the

possibility of potential damage to part or parts of the system. NOTICE identifies additional information worthy of particular attention.

#### **WARNING**

Indicates a potentially hazardous situation which, if not avoided, may result in serious or moderate bodily injury.

#### **CAUTION**

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate bodily injury and system-related damage.

#### **NOTICE**

Identifies additional information worthy of particular attention.

### Safety Summary

This safety summary does not contain all of the safety statements in this manual. Other safety statements may be included within the manual text.

Read and understand all safety precautions and instructions in this manual before installing, operating, maintaining, or troubleshooting. Failure to follow this warning could result in death or serious injury. In addition to the instructions contained in this manual, follow the rules and regulations for accident prevention and environmental protection applicable in the country and/or place of use. Generally recognized procedures for safe and proper working conditions must be observed, this includes the following:

- Do not wear jewelry, loose clothing, gloves, or long hair that can become entangled when working with moving or rotating equipment.
- When lifting more than 50 lb (23 kg), it is recommended to use a lifting device or two or more assistants.

- A fall protection safety harness is required when working at heights 6 ft (2 m) or greater.
- Safety-toe footwear must be worn at all times regardless of the presence of a hazard. Footwear must have non-skid, electrically insulated, and non-conductive soles.
- Line voltage electrical wiring installation or repair must be performed by a licensed electrician.

### Safety Labels

Do not, under any circumstances, remove any Caution, Warning, or other information labels from any component.

### Prepare for the Job

Before work starts, look at ways to make your work efficient and safe:

- Read the complete installation procedure before starting work. Contact Everidge for answers to any questions not answered by reading this manual.
- Perform a risk assessment by identifying potential hazards, assessing the risks, and taking preventative actions to reduce the risks.

### Installation Tools and Equipment

Make sure the proper tools for installation are available. These will vary between installations but will typically include:

- Tape measure
- Level
- Marking/layout pen
- Stepladder
- Cordless or corded drill
- 3/4, 7/8, and 1-1/4 inch drill bit
- Pliers
- Screwdriver set (Phillips and slotted)
- Conduit cutter

- Wire stripper
- Shop-type vacuum
- Non-solvent type spray cleaner
- Shop rags or towels

### Keep the Work Area Clean

#### NOTICE

Special considerations should be made to prevent contamination in food storage areas.

- Keep floors and work areas clean.
- Be aware of any fire hazards. Keep fire exits and escape routes unobstructed at all times.
- If any material cutting is done in the work area, reduce the amount of dust that is created. If necessary, use a HEPA rated vacuum to extract dust as it is created.
- Any work mats must be clean and should not present a tripping hazard.
- Watch out for any falling object hazards such as materials or components placed in a vertical orientation. If possible, store long items in a horizontal position.
- Have adequate rags, towels, cleaning chemicals, and waste containers on hand.

### Use Proper Head, Eye, and Foot Protection

The following personal protective equipment (PPE) is required during installation:

- Hard hat
- Safety glasses or face shield
- Safety shoes
- Hearing protection

### Lifting Safely

When lifting more than 50 lb (28 kg), it is recommended to use a lifting device appropriately rated for the amount of weight to be lifted or two or more assistants.

When using lifting equipment, be aware of the following:

- The lifting equipment must be rated for the load it is lifting. Any lifting cables or straps must also be rated for the load being lifted.
- The operator of the lifting equipment must be trained in its use.
- Make sure that the load is properly secured to the item being lifted. Only use appropriate lifting points and make sure weight is evenly distributed.
- Never stand or have any body part under a lifted load. Keep a safe distance from any lifted load. Always assume that a lifted load may potentially fall without warning.
- Use the proper PPE depending on the load being lifted and the lifting equipment used.

## Servicing Electrical Components



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

Be aware of the following electrical hazards:

- Wet conditions
- Exposed electrical components
- Improper grounding
- Damaged insulation
- Powered components

Use proper wiring and connection methods as stated in this manual. It is important that this equipment be properly grounded.

## Arc Flash

The electrical control enclosure is an arc flash and shock hazard. Wear appropriate personal protective equipment (PPE) and comply with NFPA 70E requirements when opening the control enclosure.

## Conform to Applicable Electrical Codes and Regulations

The National Electrical Code (NEC), or NFPA 70, is a regionally adoptable standard for the safe installation of electrical wiring and equipment in the United States. It is part of the National Fire Code series published by the National Fire Protection Association (NFPA), which is a private trade association.

Always check with the local codes; in some cases the National Electrical Code may be amended or replaced by local/regional codes.

Use proper wiring and connection methods as stated in this manual. It is important that this equipment be properly grounded.



**Failure to conform to federal, state, and local regulations may result in severe financial fines and penalties.**

## Dispose of Waste Materials Safely

Fluids poured onto the ground, into storm drains, or placed into trash cans (even a sealed container) can contaminate and pollute the soil, groundwater, streams, and rivers (it may also be illegal).

Never dump waste fluids into a sewer system.

Solid waste such as rags/towels containing hazardous materials must be disposed of according to local regulations. Typically, these materials are stored in special containers for special pickup by a waste management company. For potentially hazardous materials, consult the Safety Data Sheet (SDS) for disposal information.

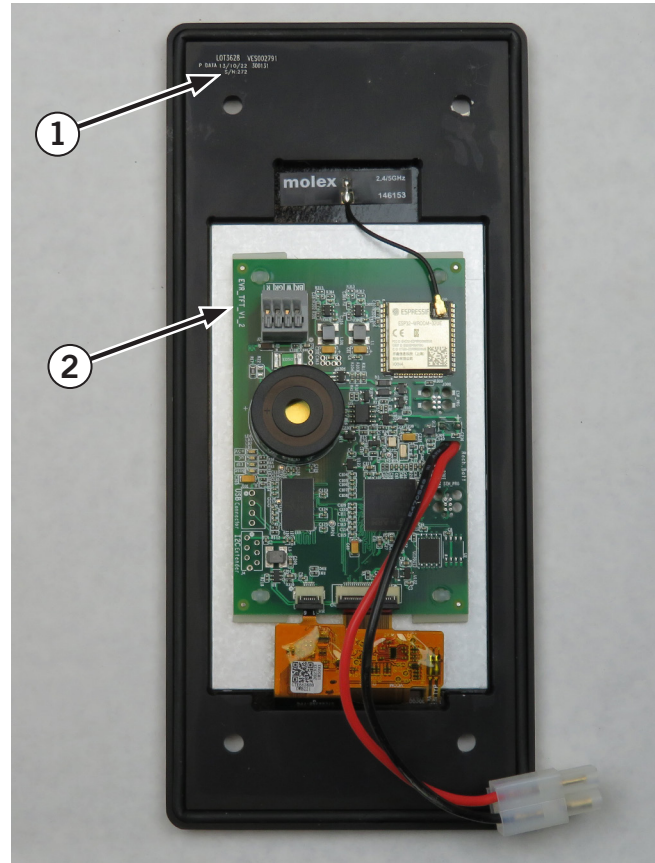
## Specifications

The following are the basic specifications for the Everidge SMRT-100 system.

Item	Specification
Power Base Module Input Voltage	120 AC Volts
Power Base Module Max Current	15 Amps
Power Base Module Dimension	8 x 8 x 4 in (203 x 203 x 102 mm)
Display Screen Size	5.0 in
Display Dimension	3.740 x 8.268 in (95 mm x 210 mm)
Display Resolution	720 x 1280 Pixels
Display Color Depth	16 Million Colors
Display Interface	True Multi-Touch Projective Capacitive Touch Panel on Glass
Temperature Units	Fahrenheit/Celsius
Probe Working Range	-40–257°F (-40–125°C)
Temperature Detection	-40–212°F. (-40–100°C)
Temperature Accuracy	±1°F (0.5°C)
Humidity Detection	0–100% RH
Humidity Accuracy	±3% @ 10–90% RH
Light Switching Rating	5 Amp (600 Watt) Maximum

## Model and Serial Number Identification

The model number (2) is located on the back of the display on the printed circuit board (PCB). The serial number (1) is located on the back of the display on the metal frame.



**Figure 2-1: Model and Serial Number Locations**

- (1) Serial Number
- (2) Model Number

## Introduction



E00073EN

**Figure 3-1: SMRT-100 Display**

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.

### NOTICE

**Only Everidge OEM and Everidge approved components are to be used with the SMRT-100 system.**

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 distracting 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 12.

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 59.

### NOTICE

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

## Equipment

The SMRT-100 system comes in three different configurations:

- One piece unit that is a fully assembled cold room and ready to use. The one piece unit is designed to be used outdoors.
- Factory mounted TFT display in the door section panel, to be used in the assembly of a cold room. The panel can be ordered for both indoor or outdoor applications.
- A retrofit kit that is designed to be installed on pre-existing cold rooms. The retrofit can be installed in both indoor or outdoor applications.

---

## One Piece

The one piece system is a fully constructed cold room with one flush mounted 5 inch display, one flush mounted magnetic door switch, one installed temperature/humidity probe, and a installed power module enclosure. Additional optional accessories can also be ordered for factory installation in one piece units. For more information, see "[Field Assembled Panel Installation](#)" on page 18.

## Panel

The field assembled panel system comes with one flush mounted 5 inch display, one flush mounted magnetic door switch, one field mounted temperature/humidity probe, one field mounted power module enclosure, and mounting hardware. For more information, see "[Field Assembled Panel Installation](#)" on page 18.

Optional factory installed components include a flush mounted illuminated light switch, illuminated panic switch, and a motion sensor. For more information, see "[Field Assembled Panel Installation](#)" on page 18.

## Retrofit

The retrofit kit comes with one 5 inch display mounted in a stainless steel field surface mount chase cover, one surface mount magnetic door switch, one temperature/humidity probe, one power module enclosure, and mounting hardware. For more information, see "[Installation](#)" on page 22.

## Accessories

All versions have the ability to connect to a wide variety of accessories for upgraded capabilities. For more information, see "[Optional Components](#)" on page 10.

## Kit Contents

### Factory Installed, Field Assembled Panel Kit

Quantity	Item
1	SMRT-100 Factory Installed Cold Room Panel
1	Power Base Enclosure with Installed Control Module
1	Temperature and Relative Humidity (RH) Sensor
3 in (76 mm)	Adhesive Tape
2	Small Grommet

### Retrofit Kit

Quantity	Item
1	Power Base Enclosure with Installed Control Module
1	Thin Film Transistor (TFT) Display with battery
30 Ft (9 m)	4 Conductor Cable
1	Temperature and Relative Humidity (RH) Sensor
3 in (76 mm)	Adhesive Tape
1	External Mount Magnetic Door Switch
30 Ft (9 m)	2 Conductor Cable
3	Small Grommet
1	Base TFT Chase SmartRite
1	Extension TFT Chase SmartRite
16	#10 X 3/4" STAINLESS STEEL PAN HEAD TEK SCREW

### Additional Temperature/Humidity Probe Kit

Quantity	Item
1	Temperature and Relative Humidity (RH) Sensor
2	Small Grommet
3 in (76 mm)	Adhesive Tape

### Light Switch Kit

Quantity	Item
1	SmartRite® External Light Switch in Single Gang Box
7 Ft (2 m)	1/2 Inch NMLT Conduit
2	1/2" NMLT Straight Conduit Fitting
2	Large Grommet
30 Ft (9 m)	4 Conductor Cable

### Panic Switch Kit

Quantity	Item
1	SmartRite Panic Switch in Single Gang Box
3 Ft (1 m)	1/2 Inch NMLT Conduit
2	1/2" NMLT Straight Conduit Fitting
2	Large Grommet
30 Ft (9 m)	4 Conductor Cable

### Motion Switch Kit

Quantity	Item
1	Motion Detector Switch in Single Gang Box
3 Ft (1 m)	1/2 Inch NMLT Conduit
2	1/2" NMLT Straight Conduit Fitting
2	Large Grommet
30 Ft (9 m)	2 Conductor Cable

### Additional Door Switch Kit

Quantity	Item
1	External Mount Magnetic Door Switch
30 Ft (9 m)	2 Conductor Cable

### Fan Kill Switch Kit

Quantity	Item
1	Fan Kill Relay
30 Ft (9 m)	2 Conductor Cable

## Weatherproof TFT Display Cover

Quantity	Item
1	Clear Weatherproof Cover
8	#10x1" SS PH PHIL TEK SCREW

## Multiway Kit

Quantity	Item
30 Ft (9 m)	4 Conductor Cable

## 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<sup>®</sup> or go to <https://www.everidge.com/smartrite-parts-appa>.



E00136

*Figure 3-1: Parts QR Code<sup>®</sup>*

## 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 59.



E00083

*Figure 3-2: TFT Display*

## TFT Enclosure 16GA

In the factory installed panel, the TFT display is factory mounted into the wiring box and flush mounted into the wall. In the retrofit kit the display comes pre-mounted in the wiring box with the wires exiting the box.



E00017

*Figure 3-3: Display Wiring Box*

## Battery

The battery is used to power the display and sensors for up to 5 hours during power failures. The battery is a 9.6 Volt nickel-metal hydride type rated at 2 Ah. The battery is located in the display wiring box and is pre-installed in both the panel and retrofit configurations.



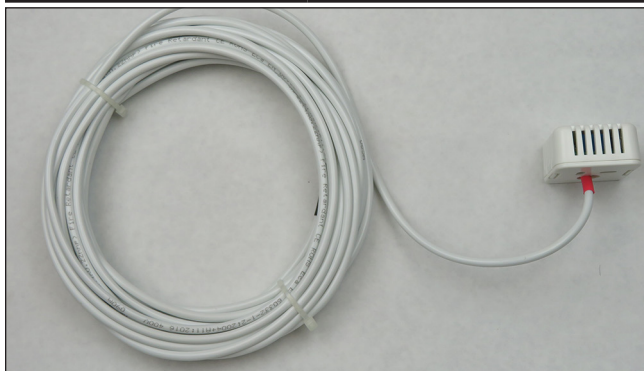
E00011

**Figure 3-4: Battery**

## Temperature and Relative Humidity (RH) Sensor

The temperature and RH sensor is provided with 33 feet (10 meters) of lead wire. The sensor requires field installation and can be mounted with two sided tape or hung in an isolated area, behind and to the left of the evaporator coil.

Sensor Working Range	-40–257°F (-40–125°C)
Temperature Detection	-40–212°F. (-40–100°C)
Temperature Accuracy	±1°F (0.5°C)
Humidity Detection	0–100% RH
Humidity Accuracy	±3% @ 10–90% RH

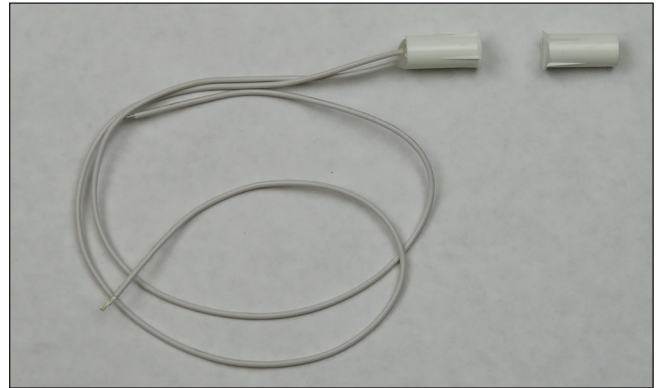


E00038

**Figure 3-5: Temperature/Humidity Sensor**

## Flush Mount Magnetic Door Switch

The flush mount magnetic door switch is used with the factory installed panel and is flush mounted into the door jamb. The door switch activates the door open alarm, switches the lights on and turns the evaporator fans off for the selected period of time on door openings.

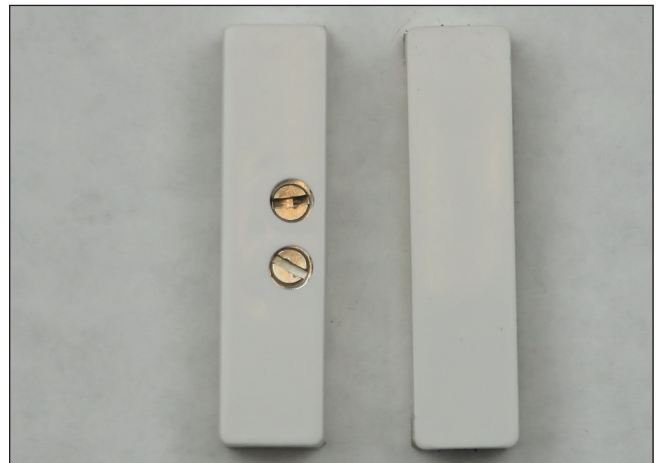


E00024

**Figure 3-6: Flush Door Switch**

## External Mount Magnetic Door Switch

The external mount magnet door switch is shipped with the retrofit kit and is comprised of a magnetic switch and magnet, both to be installed with two sided tape. The magnet installs to the door and the switch attaches to the cold room wall with two conductor wire. The door switch activates the door open alarm, switches the lights on and turns the evaporator fans off for the selected period of time on door openings.



E00023

**Figure 3-7: External Door Switch**

## Power Base/Enclosure

The power base/enclosure comes with a waterproof cover, metal back plate, and the power base module installed. The enclosure is weatherproof and should be used with waterproof conduit and fittings. To release the cover, use a #2 Phillips screwdriver to turn the latches in the four corners. Do not attempt to pry the latches out, damage to the cover and enclosure can occur.



E00020

*Figure 3-8: Power Base/Enclosure*

## Adhesive Tape

The adhesive tape is a 3/4 in (19 mm) wide, 20 mil thickness high-strength two sided tape that provides high tack and peel for mounting the temperature/RH sensor to.

## Optional Components

Optional components are components that can be added to the SMRT-100 system to enhance it's 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 Smartright power base module. Up to three switches can be connected to a single power base.



E00082

*Figure 3-9: Light Switch*

### 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 Smartright power base module. Up to three switches can be connected to a single power base.



E00075

*Figure 3-10: Panic Switch*

## 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 Smartright power base module. Up to three switches can be connected to a single power base.



E00076

**Figure 3-11: Motion Switch**

### **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.



E00086

**Figure 3-12: Everidge UV Pro by Aerapy®**

## 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 3-2: Light Base Specifications**

Input	120 V / 0.11 Amps (13 Watts)
Output	1194 Lumens



E00087

**Figure 3-13: Light Base**

## Audible Alarm

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



E00126

*Figure 3-14: Audible Alarm*

## 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.



E00080

*Figure 3-15: Fan Kill Relay*

## Conduit and Fittings

### 1/2 Inch NMLT Conduit

The conduit is a liquid tight non-metallic type and is used to protect electrical wiring and to provide a watertight connection.

## Single Gang Box

The single gang box is an electrical enclosure suitable for wet locations. In factory installed panels, all electrical accessories are mounted in the box and flush mounted into the wall. In retrofit kits, all electrical accessories are mounted into the box with all plugs installed and the wires exiting the box.



E00037

*Figure 3-16: Single Gang Box*

## 1/2" NMLT Straight Conduit Fitting

The straight conduit fitting is a liquid tight 1/2 in (13 mm) nonmetallic waterproof connector designed to provide a watertight seal to liquid tight flexible conduit and to enclosures and electrical boxes.



E00010

*Figure 3-17: Liquid Tight Connector*

## PVC Male Adapter

The male adapter is used to provide a weatherproof mating connection between any rigid PVC conduit and the power base enclosure.

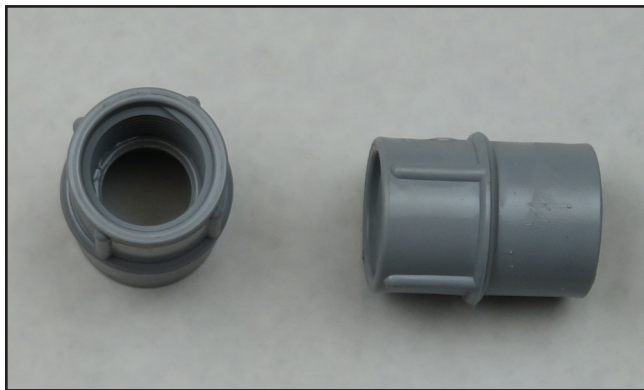


E00029

*Figure 3-18: Male Adapter*

## PVC Female Adapter

The female adapter is used to provide a weatherproof mating connection between any rigid PVC conduit and the straight conduit fitting.



E00033

*Figure 3-19: Female Adapter*

## Large Grommet

The large grommet is 7/8 in ID x 1-1/4 in hole ID 1/16 in (22 x 32 x 2 mm) push in rubber. It is used for routing of 1/2 in conduit and wiring through the walls and ceiling of the cold room.



E00025

*Figure 3-20: Large Grommet*

## Small Grommet

The small grommet is 1/4 in ID x 3/4 in hole 1/8 (6 x 19 x 3 mm) push in rubber. It is used to protect the temperature/humidity probe wire when routing into the power base inclosure.



E00026

*Figure 3-21: Small Grommet*

## Metal Elbow

The elbow is used to make 90° transitions in conduit.



E00030

*Figure 3-22: Metal Elbow*

## PVC Entrance Elbow

The elbow connects to the conduit stub out and allows horizontal conduit to run into the power base enclosure.



E00034

*Figure 3-23: PVC Elbow*

## Roof Boot

The roof boot provides a weather proof roof seal to protect the conduit stub outs on outdoor, one-piece applications. RTV sealant must be used in conjunction with the boot.

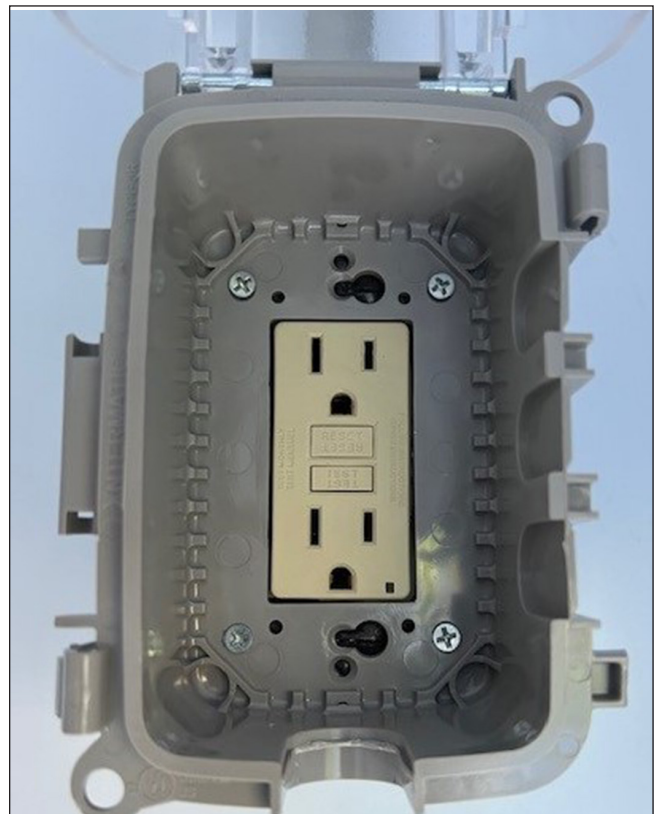


E00036

*Figure 3-24: Roof Boot*

## Ground Fault Circuit Interrupter (GFCI) Receptacle (for UV Pro by Aerapy<sup>®</sup> device)

The GFCI outlet prevents electrical shock by detecting stray voltage and automatically disconnecting power to connected devices.



E00127

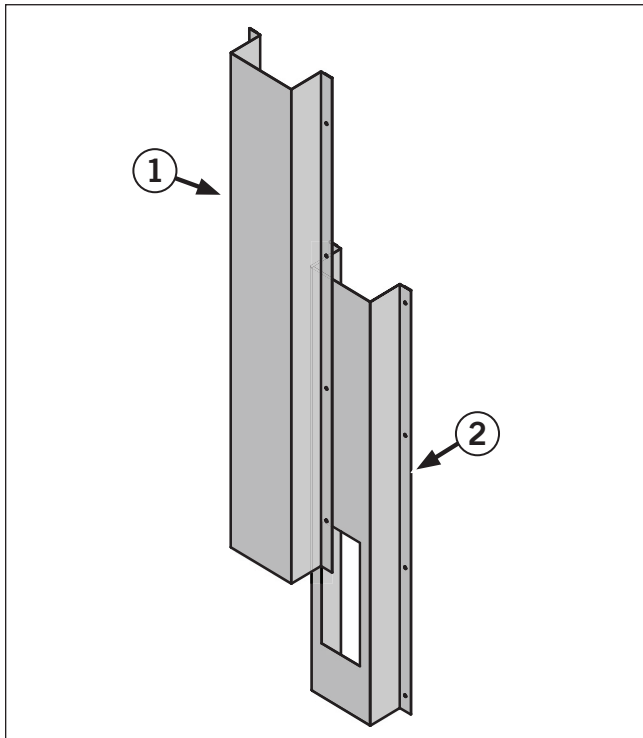
*Figure 3-25: GFCI Receptacle*

## Base TFT Chase SmartRite

The base TFT chase (2) is used for mounting the TFT display to the exterior of the cold room and concealing wires and conduit in retrofit installations.

## Extension TFT Chase SmartRite

The extension (1) is used to extend the length of the base chase in concealing wires in retrofit installations.



E00084

**Figure 3-26: TFT Chase**

- (1) Extension TFT Chase SmartRite
- (1) Base TFT Chase SmartRite

## Weatherproof Outlet Cover

The waterproof outlet cover is designed to go over the GFCI outlet and protect it from moisture during use.



E00128

**Figure 3-27: Weatherproof Cover**

## Multiway Connector

The multiway display kit comes with cabling that connects other SMRT-100's to the primary SMRT-100 system and allows the ability to connect and control additional light switches and lights at multiple locations.

## Clear Weatherproof Cover

The clear weatherproof cover is designed to go over the TFT display and provide extra protection for power washing and washdown operations.



E00085

Figure 3-28: Weatherproof Cover

## Fasteners

### #8-32 x 5/8 Phillips Flat Head Black Machine Screw

Used for mounting the TFT display to the display enclosure.

### #10 X 3/4" STAINLESS STEEL PAN HEAD TEK SCREW

Used for mounting the wire chase stainless steel base and extension.

### #6-32 x 1/2 Phillips Flat Head Black Machine Screw

Used for mounting to switches to their weatherproof enclosures.

### #10x1" SS PH PHIL TEK SCREW

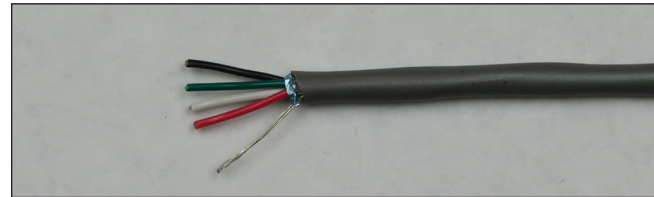
Used for mounting the clear weatherproof cover over the TFT display for washdown applications.

## Wire

### 4 Conductor Cable

The cable is a shielded wire with four conductors and a ground for connection of Everidge three and four connection low-voltage accessories to the power base. The cable is supplied in 4 different jacket colors for specific purposes.

Color	Purpose	Image
Solid	TFT Connection Multiway Connection	
Red Stripe	Panic Switch Connection	
Blue Stripe	Light Switch Connection	
White Stripe	Motion Switch Connection	



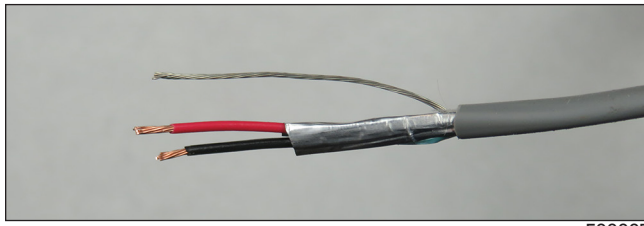
E00008

Figure 3-29: Cable Conductor Colors

### 2 Conductor Cable

The cable is a shielded 22 AWG wire with two conductors and a ground for connection of Everidge two connection low-voltage accessories to the power base. The cable is supplied in both solid gray and yellow jackets for ease of identification when installing cables.

Color	Purpose	Image
Solid Gray	Door Switch 1	
Solid Yellow	Door Switch 2	



E00007

**Figure 3-30: Cable Conductor Colors**

### 14 GA Black Stranded Wire

The wire is used for making the hot 120 VAC power wiring connections.

### 14 GA White Stranded Wire

The wire is used for making the neutral 120VAC power wiring connections.

### 14 GA Green Stranded Wire

The wire is used for making the ground 120 VAC power wiring connections.

### 14 GA Red Stranded Wire

The wire is used for making the hot 120 VAC power wiring connection to Door Heater 2.

### 14 GA Orange Stranded Wire

The wire is used for making the hot 120 VAC power wiring connection to Door Heater 1.

### 14 GA Purple Stranded Wire

The wire is used for making the hot 120 VAC power wiring connection to the UV sanitation device.

### 22 GA Black Stranded Wire


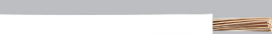




Used for making general low voltage connections.

### 22 GA Green Stranded Wire

Used for making general low voltage connections.

### 22 GA Red Stranded Wire

Used for making general low voltage connections.

Table 3-5: 14 GA Wire Color		
Color	Purpose	Image
Black	120 VAC Hot	
White	120 VAC Neutral	
Green	120 VAC Ground	
Red	Door Heater 2 120 VAC Hot	
Orange	Door Heater 1 120 VAC Hot	
Purple	UV Sanitation Device 120 VAC Hot	

## Installation

In order to simplify the electrical connections, specific wire colors should be used for the individual devices. For more information, see "Wire" on page 16.

## One Piece Installation

In one piece installation, all the components are factory installed and ready for operation, only the electrical connection needs to be made.

1. Route the AC line in wires through conduit and secure conduit to the power base enclosure with PVC pipe cement.

## Field Assembled Panel Installation

The factory installed panel option comes with the SMRT-100 thin film transistor (TFT) touch screen and magnetic door switch flush mounted into a door panel. The power base and temperature/relative humidity sensor is shipped separately to be field installed on site. For more information, see "Standard Components" on page 8.

Optionally, the light, panic, and motion switch can be ordered flush mounted into the door panel. For more information on additional accessories, see "Optional Components" on page 10.

### NOTICE

All factory installed component locations can be customized to fit individual requirements by special order.

### NOTICE

Cloud Monitoring is included for free for the first six months and \$10 per month thereafter.

## TFT and Flush Mount Wiring Box

The TFT is flush mounted to a galvanized wiring box 60 inches (1,524 mm) up from the floor on the outside of the panel. It is centered on the jamb between the wall and the door on the jamb leg, on the latch side of the door opening.

Wiring from the TFT is routed through conduit inside the panel wall and exits the conduit stub at the top of the door panel.

## Magnetic Door Switch

The magnetic door switch is flush mounted inside of the door jamb on the latch side, approximately 64 inches (1,626 mm) up from the floor.

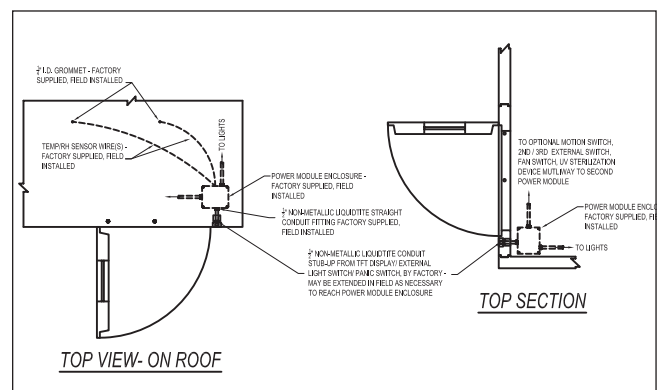
Wiring from the door switch is routed through conduit inside the panel wall and exits the conduit stub at the top of the door panel.

## Power Base/Enclosure

The power base/enclosure is packaged separately and requires field installation. Before installation, confirm that all included hardware is accounted for. See, packing/shipping list included with package. If any hardware is missing, contact Everidge.

## Indoor Installation

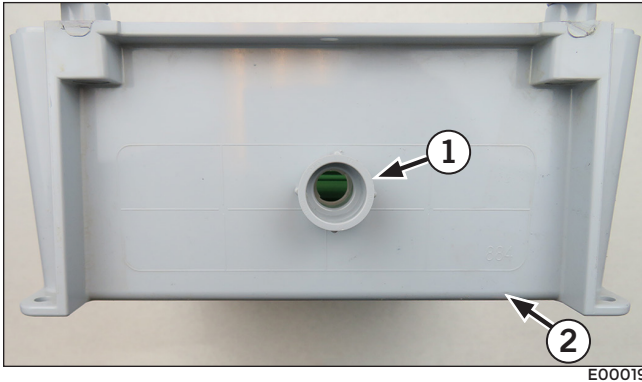
1. Locate a suitable mounting location on top of the cold room as close as possible to the conduit stub at the top of the door panel.



E00004

Figure 4-1: Enclosure Top View

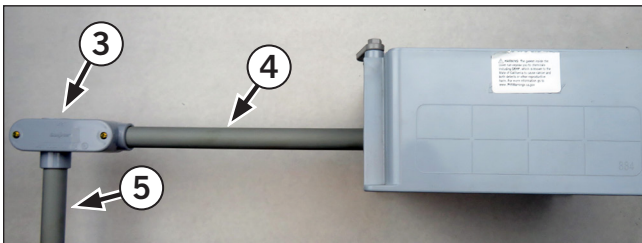
- Remove the cover from the enclosure (2) and drill three 7/8 in (22 mm) holes through three sides. The holes are used for the power in connection, panel conduit stub out connection, and the temperature/humidity probe.
- Install a 1/2 in (13 mm) polyvinyl chloride (PVC) male adaptor (1) into two of the holes. Tighten the nuts until snug, but do not overtighten.



E00019

**Figure 4-2: PVC Male Adapter Install**

- Insert grommet (Part no. 49603) into the last hole for the temperature/humidity probe wire. If installing a second probe, drill an additional 7/8 in (22 mm) hole and install a second grommet.
- Install a 1/2 in (13 mm) PVC elbow (3) onto the wall conduit stub (5) with the wires passing through.
- Cut an appropriate length of 1/2 in conduit (4) to fit between the PVC elbow and enclosure.
- Run the wires from the elbow through the precut conduit and into the enclosure.
- Connect the conduit to the elbow and enclosure using PVC pipe cement.



E00077

**Figure 4-3: Conduit Stub Connection**

- When installing additional accessories, each will require an additional PVC male adaptor fitting to be installed into the enclosure.

**CAUTION**

**AC line voltage electrical wiring installation or repair must be performed by a licensed electrician.**

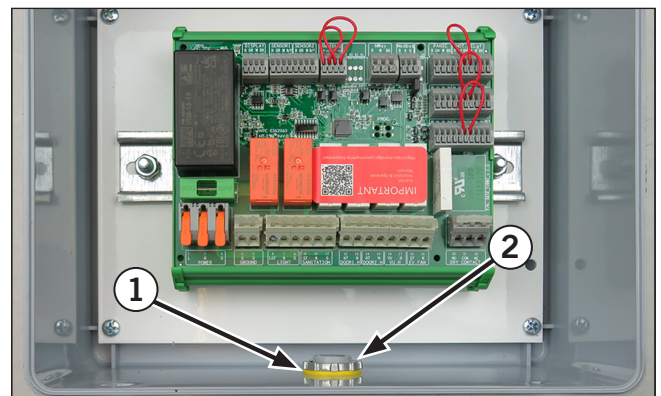
**NOTICE**

**120 Volt AC accessory wires must not be run in the same conduit as low voltage signal wires.**

- After all accessories are installed and wires are run, route the 120V AC line IN wires through conduit and secure conduit to enclosure with PVC pipe cement.
- Fasten the power base/enclosure to the top of the cold room using the appropriate fasteners.

**Outdoor Field Assembled Panel Installation**

- Locate a suitable mounting location at the top of the cold room wall as close as possible to the conduit stub at the top of the door panel.
- Remove the cover from the enclosure and drill three 7/8 in (22 mm) holes through the bottom side only. The holes are used for the AC line in connection, panel conduit stub out connection, and the temperature/humidity probe.
- Install three 1/2 in (13 mm) liquid tight connector adaptors into each of the three holes.
- Install the O-ring (1) and nut (2) onto the connectors and tighten snugly, but do not over tighten.



E00022

**Figure 4-4: Liquid Tight Adapter**

5. Install a 1/2 in (13 mm) PVC elbow onto the wall conduit stub using PVC pipe cement. Remove cover from elbow and secure wires.
6. Install a PVC female adapter using PVC cement and the liquid tight adapter onto the elbow.
7. Cut an appropriate length of 1/2 in (13 mm) liquid tight conduit and connect to liquid tight connectors.
8. Feed the secured wires into the enclosure and replace the elbow cover, ensuring that the gasket lines up correctly.
9. When installing additional accessories, each will require an additional liquid tight adaptor to be installed into the enclosure.
10. After all accessories are installed and wires are run through liquid tight conduit, route the AC line in wires through liquid tight conduit and secure conduit to enclosure.
11. Fasten the power base/enclosure to the top of the cold room using the appropriate fasteners.
2. Attach the temperature and RH sensor to the wall using the included double-sided adhesive tape.
3. The lead wires can be routed to the power base enclosure by two different methods:
  - Route the lead wire along the ceiling with appropriate fasteners to exit through the top corner of the doorway.
  - Drill a 1/4 in (6 mm) hole through the ceiling panel. Route the lead wire through the hole and seal the hole with room temperature vulcanizing (RTV) sealant.
4. Route the lead wire into the grommet in the enclosure.

### NOTICE

Optionally, the enclosure can be mounted on the side of the structure following the same method of installation.

## Temperature and Relative Humidity (RH) Sensor

The temperature and RH sensor is packaged separately and requires field installation. Before installation, confirm all included hardware is accounted for. See the packing/shipping list included with package. If any hardware is missing, contact Everidge.

### NOTICE

The Temperature and RH sensor is provided with 30 foot (9 meter) of lead wire for connection to the power base. Additional wire can be added if required.

### Indoor Installation

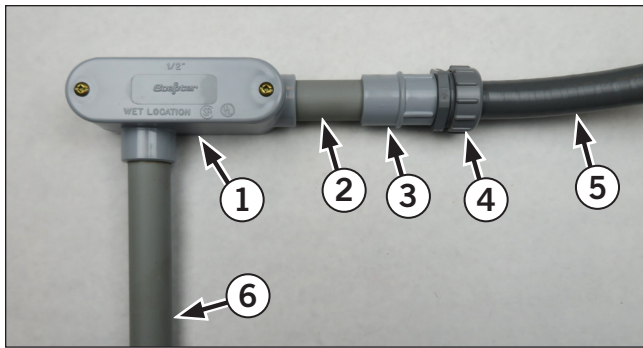
1. Locate a suitable mounting location on the interior wall behind and to the left of the evaporator coil.

### Outdoor Installation



If the power base enclosure is mounted outdoors, the temperature and RH sensor lead wires must be run through weatherproof conduit.

1. Locate a suitable mounting location on the interior wall behind and to the left of the evaporator coil.
2. Attach the temperature and RH sensor to the wall using the included double-sided adhesive tape.
3. Locate a suitable area and drill a 7/8 in (22 mm) hole through the wall to route the temperature/humidity probe wire.
4. Insert a piece of PVC conduit (6) through the hole and apply a sufficient amount of RTV sealant around the conduit.
5. Install a 1/2 in (13 mm) PVC elbow (1) onto the conduit (6) using PVC pipe cement. Remove cover from elbow and secure wires.
6. Using PVC cement, install a small piece of conduit (2) into the elbow and female adapter (3).
7. Install a liquid tight adapter (4) onto the female adapter.
8. Cut an appropriate length of 1/2 in (13 mm) liquid tight conduit (5) to reach the enclosure.



E00078

**Figure 4-5: Outdoor Elbow Install**

9. Feed the secured wires into the enclosure and replace the elbow cover, ensuring that the gasket lines up correctly.
10. After all accessories are installed and wires are run through liquid tight conduit, route the AC line in wires through liquid tight conduit and secure conduit to enclosure.

## Optional Motion Switch

The motion switch is flush mounted to a weatherproof wiring box 3 inches (76 mm) from the interior latch side of the opening and 85 inches (2,159 mm) up from the floor.

Wiring from the motion switch is routed through conduit inside the panel wall and exits the conduit stub at the top of the door panel.

## Optional Interior Flush Mount Light Switch

The light switch is flush mounted to a weatherproof wiring box 3 inches (76 mm) from the interior latch side of the opening and 48 inches (1,219 mm) up from the floor.

Wiring from the light switch is routed through conduit inside the panel wall and exits the conduit stub at the top of the door panel.

## Optional Interior Flush Mount Panic Switch

The panic switch is flush mounted to a weatherproof wiring box 3 inches (76 mm) from the interior latch side of the opening and 36 inches (914 mm) up from the floor.

Wiring from the panic switch is routed through conduit inside the panel wall and exits the conduit stub at the top of the door panel.

## Installation

The retrofit kit comes with a SMRT-100 Thin Film Transistor (TFT) touch screen, temperature and relative humidity sensor, magnetic door switch, power base enclosure, display wiring chase, wire, and mounting hardware.

The SMRT-100 has the capability of adding additional accessories to the system. For more information on additional accessories, see "Optional Components" on page 10.

In order to simplify the electrical connections, specific wire colors should be used for the individual devices. For more information, see "Wire" on page 16.

### NOTICE

**Cloud Monitoring is included for free for the first six months and \$10 per month thereafter.**

## TFT and Flush Mount Wiring Box

The TFT is mounted into a galvanized wiring box that is installed into a surface mounted stainless steel wiring chase designed to protect system wiring.

The TFT and stainless steel chase should be mounted on the exterior latch side of the main entry door jamb, 52-3/8 in (1330 mm) from the floor and a maximum of 1-1/2 in (38 mm) over from the edge of the door opening.

The stainless steel chase cover extension mounts over the top of the base chase cover, extending to the roof level using the stainless steel screws provided.

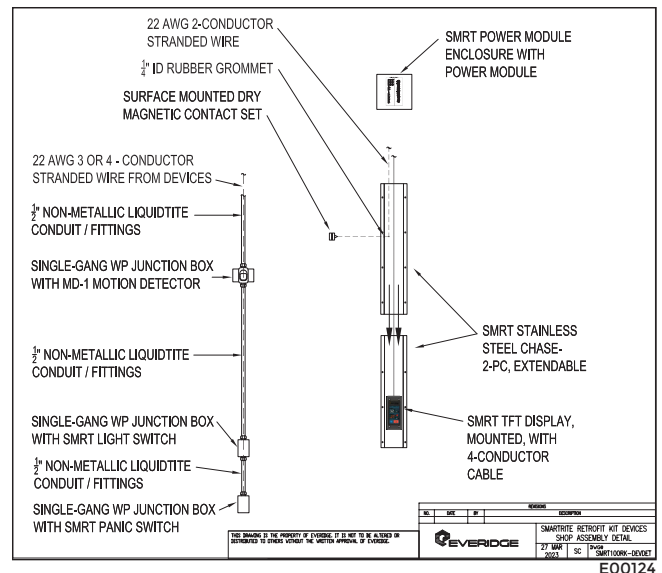


Figure 5-1: Wire Chase

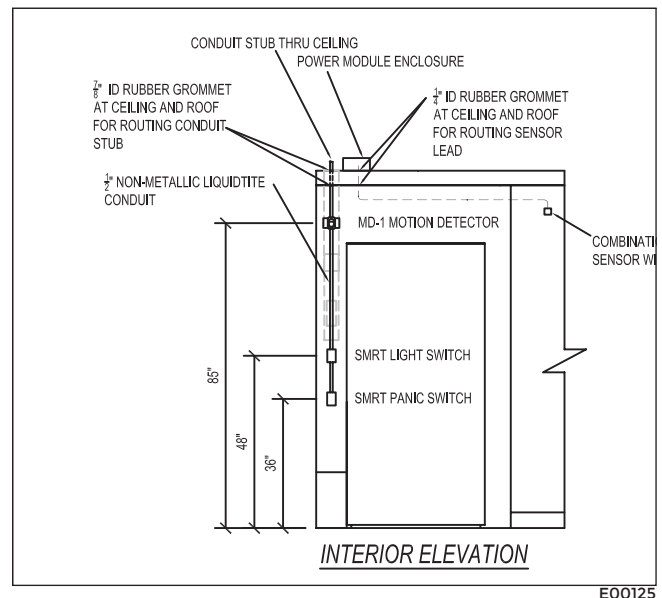


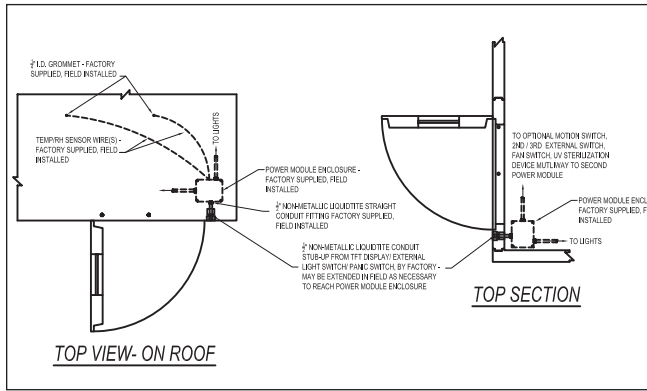
Figure 5-2: Mounting Dimensions

## Power Base/Enclosure

Before installation, confirm that all included hardware is accounted for. See the Packing/ Shipping List included with package. If any hardware is missing, contact Everidge.

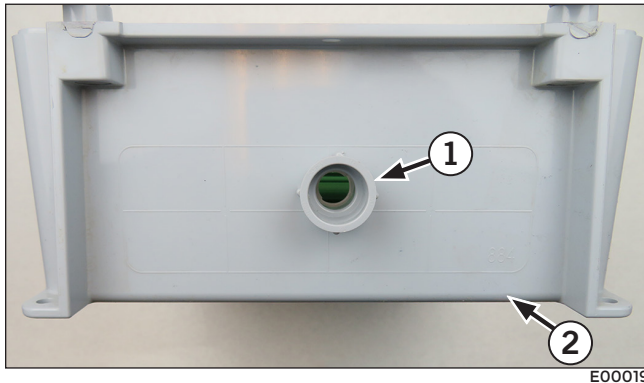
## Indoor Installation

1. Locate a suitable mounting location on top of the cold room as close as possible to the conduit stub at the top of the door panel.



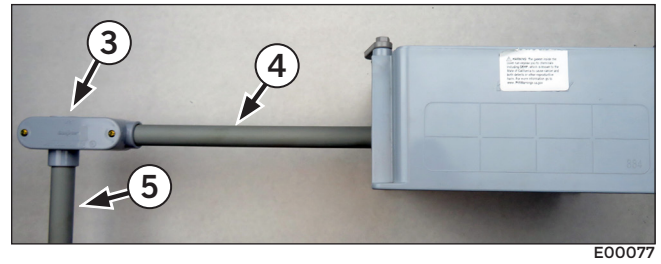
**Figure 5-3: Enclosure Top View**

2. Remove the cover from the enclosure (2) and drill three 7/8 in (22 mm) holes through three sides. The holes are used for the power in connection, panel conduit stub out connection, and the temperature and humidity probe.
3. Install a 1/2 in (13 mm) polyvinyl chloride (PVC) male adaptor (1) into two of the holes. Tighten the nuts until snug, but do not overtighten.



**Figure 5-4: PVC Male Adapter Install**

4. Insert grommet (Part no. 49603) into the last hole for the temperature/humidity probe wire. If installing a second probe, drill an additional 7/8 in (22 mm) hole and install a second grommet.
5. Install a 1/2 in (13 mm) PVC elbow (3) onto the wall conduit stub (5) with the wires passing through.
6. Cut an appropriate length of 1/2 in conduit (4) to fit between the PVC elbow and enclosure.
7. Run the wires from the elbow through the precut conduit and into the enclosure.
8. Connect the conduit to the elbow and enclosure using PVC pipe cement.



**Figure 5-5: Conduit Stub Connection**

9. When installing additional accessories, each will require an additional PVC male adaptor fitting to be installed into the enclosure.

**CAUTION**

**AC line voltage electrical wiring installation or repair must be performed by a licensed electrician.**

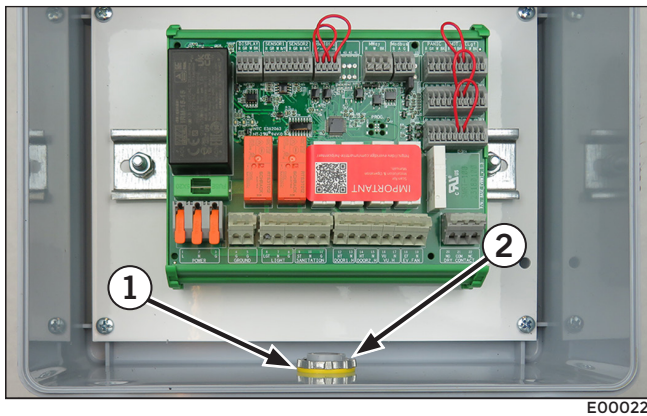
**NOTICE**

**The 120 Volt AC accessory wires must not be run in the same conduit as low voltage signal wires.**

10. After all accessories are installed and wires are run, route the 120V AC line IN wires through conduit and secure conduit to enclosure with PVC pipe cement.
11. Fasten the power base/enclosure to the top of the cold room using the appropriate fasteners.

**Outdoor Field Assembled Panel Installation**

1. Locate a suitable mounting location at the top of the cold room wall as close as possible to the conduit stub at the top of the door panel.
2. Remove the cover from the enclosure and drill three 7/8 in (22 mm) holes through the bottom side only. The holes are used for the AC line in connection, panel conduit stub out connection, and the temperature/humidity probe.
3. Install three 1/2 in (13 mm) liquid tight connector adaptors into each of the three holes.
4. Install the O-ring (1) and nut (2) onto the connectors and tighten snugly, but do not overtighten.



**Figure 5-6: Liquid Tight Adapter**

5. Install a 1/2 in (13 mm) PVC elbow onto the wall conduit stub using PVC pipe cement. Remove cover from elbow and secure wires.
6. Install a PVC female adapter using PVC cement and the liquid tight adapter onto the elbow.
7. Cut an appropriate length of 1/2 in (13 mm) liquid tight conduit and connect to the liquid tight connectors.
8. Feed the secured wires into the enclosure and replace the elbow cover, ensuring that the gasket lines up correctly.
9. When installing additional accessories, each will require an additional liquid tight adaptor to be installed into the enclosure.
10. After all accessories are installed and wires are run through the liquid tight conduit, route the AC line in wires through the liquid tight conduit and secure conduit to enclosure.
11. Fasten the power base/enclosure to the top of the cold room using the appropriate fasteners.

## NOTICE

Optionally, the enclosure can be mounted on the side of the structure following the same method of installation.

## Temperature and Relative Humidity (RH) Sensor

Before installation, confirm all included hardware is accounted for. See the Packing/Shipping List included with package. If any hardware is missing, contact Everidge. The lead wires can be routed to the power base enclosure by two different methods:

- Indoor through the ceiling
- Outdoor through the wall

## NOTICE

The temperature and RH sensor is provided with 30 ft (9 meter) of lead wire for connection to the power base. Additional 4 conductor 22 AWG shielded wire can be added if required.

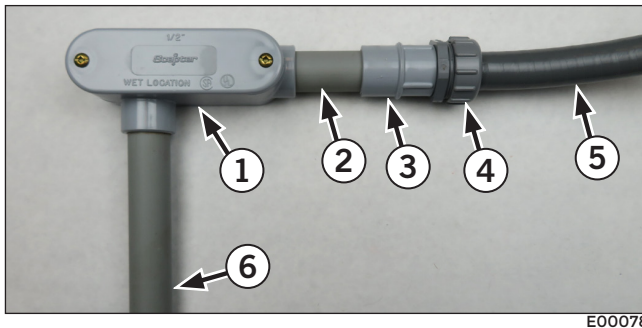
### Indoor Installation

1. Locate a suitable mounting location on the interior wall behind and to the left of the evaporator coil.
2. Attach the temperature and RH sensor to the wall using the included double-sided adhesive tape.
3. Route the lead wire along the ceiling with appropriate fasteners to exit through the top corner of the doorway or drill a 1/4 in (6 mm) hole through the ceiling panel and insert grommet into the hole. Route the lead wire through the grommet and seal with room temperature vulcanizing (RTV) sealant.
4. Drill a 1/4 in (6 mm) hole through the power base enclosure and insert grommet into the hole.
5. Route the lead wire into the grommet in the enclosure and seal with room temperature vulcanizing (RTV) sealant.

### Outdoor Installation

1. Locate a suitable mounting location on the interior wall behind and to the left of the evaporator coil.
2. Attach the temperature and RH sensor to the wall using the included double-sided adhesive tape.
3. Locate a suitable area and drill a 7/8 in (22 mm) hole through the wall to route conduit for the temperature/humidity probe wire.

4. Insert a piece of PVC conduit (6) through the hole and apply a sufficient amount of RTV sealant around the conduit.
5. Install a 1/2 in (13 mm) PVC elbow (1) onto the conduit (6) using PVC pipe cement. Remove cover from elbow and secure wires.
6. Using PVC cement, install a small piece of conduit (2) into the elbow and female adapter (3).
7. Install a liquid tight adapter (4) onto the female adapter.
8. Cut an appropriate length of 1/2 in (13 mm) liquid tight conduit (5) to reach the enclosure.



**Figure 5-7: Outdoor Elbow Install**

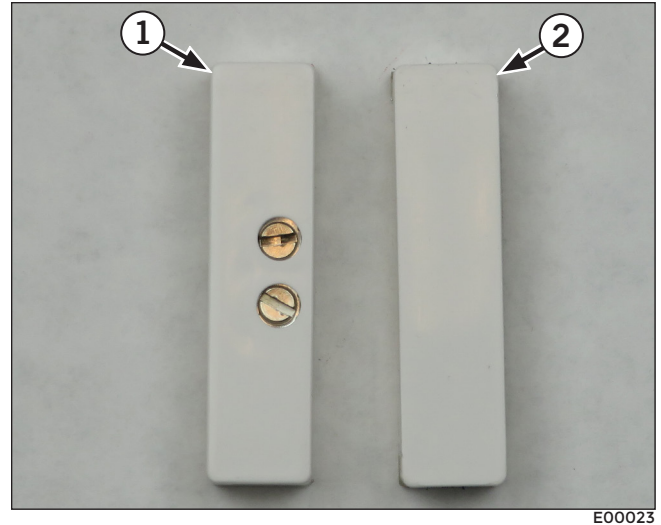
9. Remove the cover from the PVC elbow to assist in wire routing.
10. Route the wires from the temperature/humidity sensor through the conduit, elbow, and liquid tight conduit to the power base enclosure.
11. Install the PVC elbow cover, confirming the gasket lines up correctly.

## Magnetic Door Switch

The magnetic door switch consists of two separate pieces. A magnet inside of an enclosure that causes the contacts to close in the switch when it comes in close proximity to the switch.

1. Attach the magnetic door switch (1) to the stainless steel chase cover as near as possible to the top corner of the door with the supplied double-sided tape.
2. Attach the door switch magnet (2) to the cold room door in alignment with the door switch using the supplied double-sided tape.

3. Using the included 2 conductor wire, connect the wires to the switch and route through the provided 1/4 in grommet into the stainless steel chase cover and into the power base module.



**Figure 5-8: External Door Switch**

## Motion Switch

The optional motion switch comes flush mounted into a weatherproof wiring box with a suitable length of lead wire to reach the power base module. Additional wire can be spliced if required. The lead wires can be routed to the power base enclosure by two different methods:

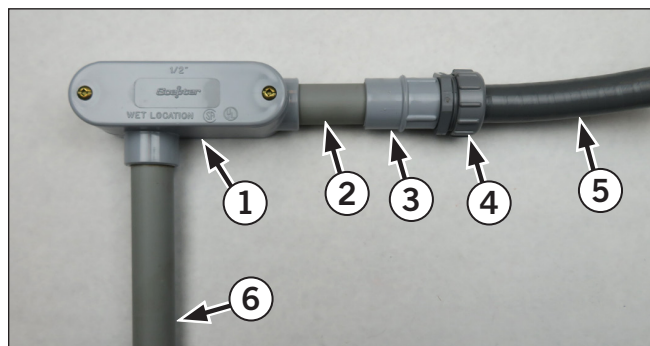
- Indoor through the ceiling
- Outdoor through the wall

### Indoor Installation

1. Mount the motion switch 3 in (76 mm) from the interior latch side of the opening and as close as practical to the ceiling for maximum sensor coverage.
2. Locate a suitable area and drill a 7/8 in (22 mm) hole through the ceiling to route the supplied 1/2 in (13 mm) non-metallic liquid tight conduit from the motion switch to the power base module.
3. Route the wiring through the supplied 1/2 in (13 mm) non-metallic liquid tight conduit.
4. Route the conduit through the hole and apply a sufficient amount of RTV sealant around the conduit.
5. Attach the conduit to the motion switch box and power base with the supplied adapters.

### Outdoor Installation

1. Mount the motion switch 3 in (76 mm) from the interior latch side of the opening and as close as practical to the ceiling for maximum sensor coverage.
2. Locate a suitable area and drill a 7/8 in (22 mm) hole through the wall to route the supplied 1/2 in (13 mm) non-metallic liquid tight conduit from the motion switch to the power base module.
3. Insert a piece of PVC conduit (6) through the hole and apply a sufficient amount of RTV sealant around the conduit.
4. Install a 1/2 in (13 mm) PVC elbow (1) onto the conduit (6) using PVC pipe cement.
5. Using PVC cement, install a small piece of conduit (2) into the elbow and female adapter (3).
6. Install a liquid tight adapter (4) onto the female adapter.
7. Cut an appropriate length of 1/2 in (13 mm) liquid tight conduit (5) to reach the power base.



**Figure 5-9: Outdoor Elbow Install**

8. Remove cover from elbow and route lead wire from the motion switch through the conduit, elbow, and liquid tight conduit to the power base.
9. Reinstall the elbow cover and connect conduit to the motion switch box and power base using the supplied adapters.

### Interior Surface Mount External Light Switch

The optional light switch comes mounted in a weatherproof wiring box with a suitable length of lead wire to reach the power base module. Additional wire can be spliced if required. The lead wires can be routed to the power base enclosure by two different methods:

- Indoor through the ceiling
- Outdoor through the wall

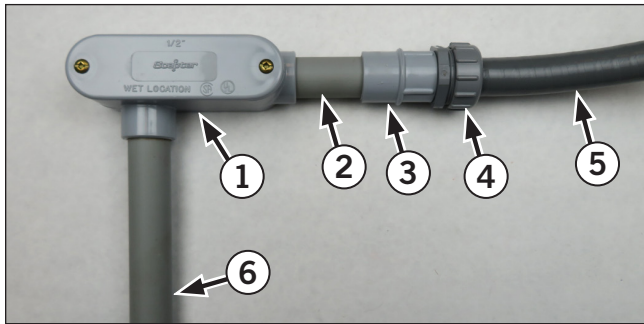
#### Indoor Installation

1. Mount the light switch on the interior latch side of the main entry, 48 in (1219mm) up from the floor and 3 in (76mm) over from the edge of the opening.
2. Locate a suitable area and drill a 7/8 in (22 mm) hole through the ceiling to route the supplied 1/2 in (13mm) non-metallic liquid tight conduit from the motion switch to the power base module.
3. Route the wiring through the supplied 1/2 in (13mm) non-metallic liquid tight conduit.
4. Route the conduit through the hole and apply a sufficient amount of RTV sealant around the conduit.
5. Attach the conduit to the light switch box and power base with the supplied adapters.

#### Outdoor Installation

1. Mount the light switch on the interior latch side of the main entry, 48 in (1219 mm) up from the floor and 3 in (76 mm) over from the edge of the opening.
2. Locate a suitable area and drill a 7/8 in (22 mm) hole through the wall to route the supplied 1/2 in (13 mm) non-metallic liquid tight conduit from the light switch to the power base module.
3. Insert a piece of PVC conduit (6) through the hole and apply a sufficient amount of RTV sealant around the conduit.
4. Install a 1/2 in (13 mm) PVC elbow (1) onto the conduit (6) using PVC pipe cement.
5. Using PVC cement, install a small piece of conduit (2) into the elbow and female adapter (3).
6. Install a liquid tight adapter (4) onto the female adapter.

- Cut an appropriate length of 1/2 in (13 mm) liquid tight conduit (5) to reach the power base.



E00078

**Figure 5-10: Outdoor Elbow Install**

- Remove cover from elbow and route lead wire from the light switch through the conduit, elbow, and liquid tight conduit to the power base.
- Reinstall the elbow cover and connect conduit to the motion switch box and power base using the supplied adapters.

## Interior Surface Mount Panic Switch Box

The optional panic switch comes mounted into a weatherproof wiring box with a suitable length of lead wire to reach the power base module. Additional wire can be spliced if required. The lead wires can be routed to the power base enclosure by two different methods:

- Indoor through the ceiling
- Outdoor through the wall

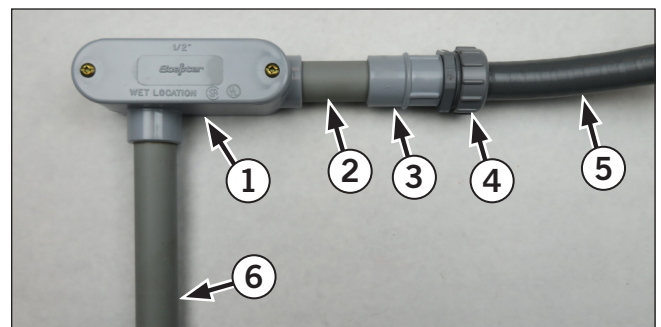
### Indoor Installation

- Mount the panic switch on the interior latch side of the main entry, 36 in (914 mm) up from the floor and 3 in (76 mm) over from the edge of the opening.
- Locate a suitable area and drill a 7/8 in (22 mm) hole through the ceiling to route the supplied 1/2 in (13 mm) non-metallic liquid tight conduit from the panic switch to the power base module.
- Route the wiring through the supplied 1/2 in (13 mm) non-metallic liquid tight conduit.
- Route the conduit through the hole and apply a sufficient amount of RTV sealant around the conduit.

- Attach the conduit to the panic switch box and power base with the supplied adapters.

### Outdoor Installation

- Mount the panic switch on the interior latch side of the main entry, 36 in (914 mm) up from the floor and 3 in (76 mm) over from the edge of the opening.
- Locate a suitable area and drill a 7/8 in (22 mm) hole through the wall to route the supplied 1/2 in (13 mm) non-metallic liquid tight conduit from the panic switch to the power base module.
- Insert a piece of PVC conduit (6) through the hole and apply a sufficient amount of RTV sealant around the conduit.
- Install a 1/2 in (13 mm) PVC elbow (1) onto the conduit (6) using PVC pipe cement.
- Using PVC cement, install a small piece of conduit (2) into the elbow and female adapter (3).
- Install a liquid tight adapter (4) onto the female adapter.
- Cut an appropriate length of 1/2 in (13 mm) liquid tight conduit (5) to reach the power base.



E00078

**Figure 5-11: Outdoor Elbow Install**

- Remove cover from elbow and route lead wire from the panic switch through the conduit, elbow, and liquid tight conduit to the power base.
- Reinstall the elbow cover and connect conduit to the panic switch box and power base using the supplied adapters.

## Ground Fault Circuit Interrupter (GFCI) Receptacle.

 **CAUTION**

AC line voltage electrical wiring installation or repair must be performed by a licensed electrician.

The optional GFCI receptacle is used to power a 120V ultraviolet (UV) sanitation device. The 120V lead wires can be routed to the power base enclosure by two different methods:

- Indoor through the ceiling
- Outdoor through the wall

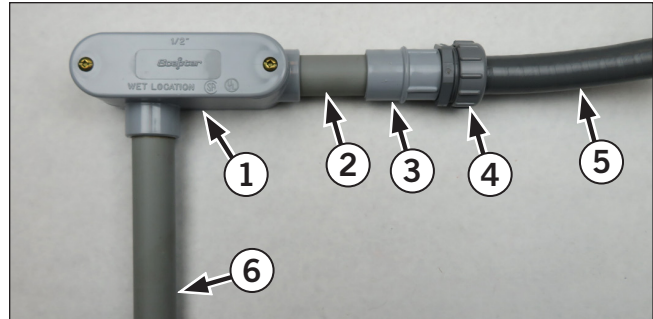
### Indoor Installation

1. Mount the GFCI receptacle close to the ceiling near the UV sanitation device.
2. Locate a suitable area and drill a 7/8 in (22 mm) hole through the ceiling to route the supplied 1/2 in (13 mm) non-metallic liquid tight conduit from the GFCI receptacle to the power base module.
3. Route the wiring through the supplied 1/2 in (13 mm) non-metallic liquid tight conduit.
4. Route the conduit through the hole and apply a sufficient amount of RTV sealant around the conduit.
5. Attach the conduit to the GFCI receptacle and power base with the supplied adapters.

### Outdoor Installation

1. Mount the GFCI receptacle close to the ceiling near the UV sanitation device.
2. Locate a suitable area and drill a 7/8 in (22 mm) hole through the wall to route the supplied 1/2 in (13 mm) non-metallic liquid tight conduit from the GFCI receptacle to the power base module.
3. Insert a piece of PVC conduit (6) through the hole and apply a sufficient amount of RTV sealant around the conduit.
4. Install a 1/2 in (13 mm) PVC elbow (1) onto the conduit (6) using PVC pipe cement.
5. Using PVC cement, install a small piece of conduit (2) into the elbow and female adapter (3).

6. Install a liquid tight adapter (4) onto the female adapter.
7. Cut an appropriate length of 1/2 in (13 mm) liquid tight conduit (5) to reach the power base.



E00078

**Figure 5-12: Outdoor Elbow Install**

8. Remove cover from elbow and route lead wire from the GFCI receptacle through the conduit, elbow, and liquid tight conduit to the power base.
9. Reinstall the elbow cover and connect conduit to the GFCI receptacle and power base using the supplied adapters.

## Everidge UV Pro by Aerapy

For information on installation of sanitation devices, consult documentation that comes with the unit.

## Jamb Heater

 **CAUTION**

AC line voltage electrical wiring installation or repair must be performed by a licensed electrician.

The optional jamb heater operates off of a 120V output from the power module. Jamb heaters are typically mounted into the door frame of freezers to prevent the buildup of ice from condensation.

Wires from the jamb heater must be run in weatherproof electrical conduit to the power module.

## View (VU) Port Heater

### ⚠ CAUTION

AC line voltage electrical wiring installation or repair must be performed by a licensed electrician.

The VU port heater operates off of a 120V output from the power module. VU port heaters are typically mounted around the observation window to prevent the buildup of condensation, frost, or ice.

Wires from the VU port heater must be run in weatherproof electrical conduit to the power module.

## Light Base

### NOTICE

The light output of the power module is rated for a maximum of 5 amps (600 watts).

### ⚠ CAUTION

AC line voltage electrical wiring installation or repair must be performed by a licensed electrician.

The optional light bases operate off of a 120V output from the power module. The 120V lead wires can be routed to the power base enclosure by two different methods:

- Indoor through the ceiling
- Outdoor through the wall

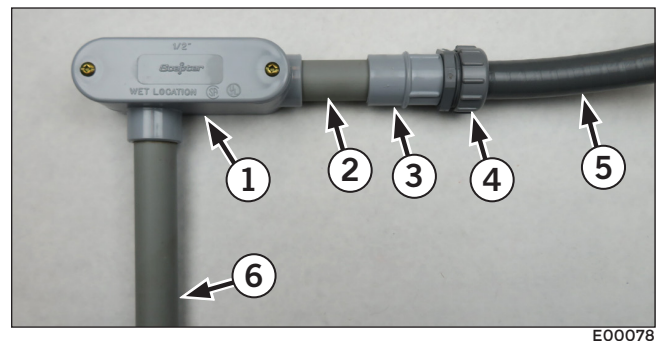
## Indoor Installation

1. Typically, the light bases are mounted to the ceiling.
2. Locate a suitable area and drill a 7/8 in (22 mm) hole through the ceiling to route the supplied 1/2 in (13 mm) non-metallic liquid tight conduit from the light base to the power base module.
3. Route the wiring through the supplied 1/2 in (13 mm) non-metallic liquid tight conduit.
4. Route the conduit through the hole and apply a sufficient amount of RTV sealant around the conduit.

5. Attach the conduit to the light base and power base with the supplied adapters.

## Outdoor Installation

1. Typically, the light bases are mounted to the ceiling.
2. Locate a suitable area and drill a 7/8 in (22 mm) hole through the wall to route the supplied 1/2 in (13 mm) non-metallic liquid tight conduit from the light base to the power base module.
3. Insert a piece of PVC conduit (6) through the hole and apply a sufficient amount of RTV sealant around the conduit.
4. Install a 1/2 in (13 mm) PVC elbow (1) onto the conduit (6) using PVC pipe cement.
5. Using PVC cement, install a small piece of conduit (2) into the elbow and female adapter (3).
6. Install a liquid tight adapter (4) onto the female adapter.
7. Cut an appropriate length of 1/2 in (13 mm) liquid tight conduit (5) to reach the power base.



**Figure 5-13: Outdoor Elbow Install**

8. Remove cover from elbow and route lead wire from the light base through the conduit, elbow, and liquid tight conduit to the power base.
9. Reinstall the elbow cover and connect conduit to the light base and power base using the supplied adapters.

## Fan Kill Relay



**The fan kill relay uses 120V power and must be installed or serviced by a licensed electrician.**

The optional fan kill relay operates off of a 120V output from the power module. The fan kill relay system is designed to function with different types of cold room cooling systems. For more information, see the cooling system manual.

Depending on the location of the evaporator control circuit board, wiring may not have to be run through the wall of the cold room. For more information, see "[Wire Schematic](#)" on page 38.

Regardless of location of the fan relay, all wires from the power module to the relay must be run in weatherproof electrical conduit.

## Multiway Installation

Multiway allows the connection of two or more modules to control additional light bases from the main system. The 4 conductor wire that connects the two modules can be routed by two different methods:

- Indoor
- Outdoor

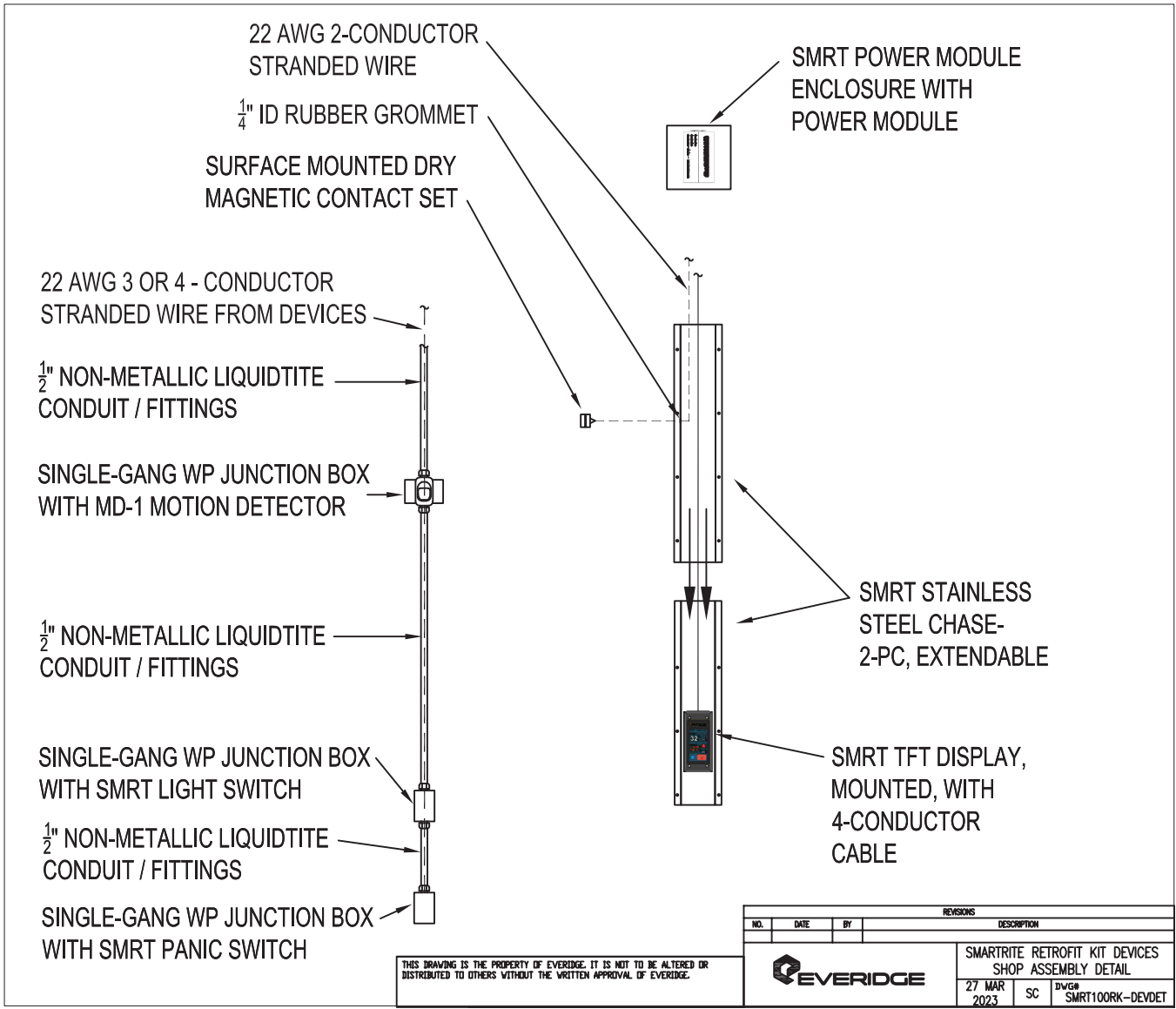
### Indoor Installation

1. Drill a 1/4 in (6 mm) hole through both power bases and install the included grommets.
2. Route a 4 conductor solid grey wire between the power bases, inserting through grommets. Apply RTV sealant around wires into openings.
3. Secure wire as necessary.

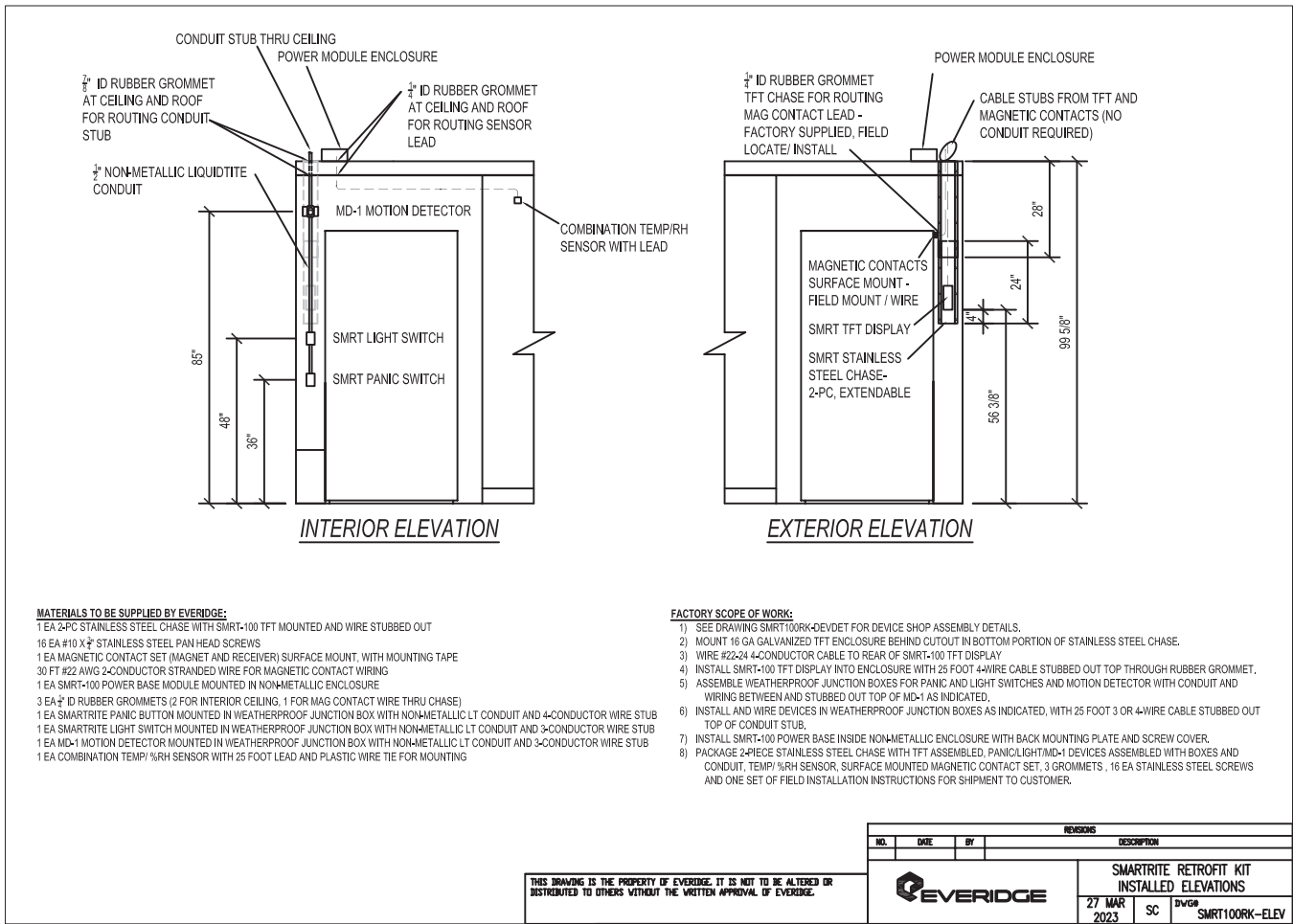
### Outdoor Installation

1. Drill a 7/8 in (22 mm) hole through both power bases.
2. Install liquid tight conduit adapters and conduit between both power bases.
3. Route a solid grey 4 conductor wire through the conduit.
4. Secure conduit as necessary.

# Location Diagrams



**Figure 5-14: Wire Chase**



**Figure 5-15: Mounting Dimensions**

## Component Wiring Installation

### CAUTION

AC line voltage electrical wiring installation or repair must be performed by a licensed electrician.

### CAUTION

All penetrations through the walk-in must be completely sealed with silicone or expanding foam through the entire depth of the walk-in panel, both within the annulus between the conduit or wire and the walk-in panel as well as the entire interior of the conduit. Failure to do so will cause condensation within the system and void the warranty.

When routing and installing wires, it is important to do so professionally. Wires that are tangled and connected in a chaotic manor make servicing more difficult and could pose an electrical hazard. Wire insulation must not be excessively stripped. Wires that are in connectors must not show unprotected bare wire. All wires are color-coded and connectors are labeled by connector name. Each connector is labeled for color or function of wire needed for each terminal.

## Thin Film Transistor (TFT) Display

### CAUTION

When installing or servicing the TFT, be sure that no wiring or the battery are installed directly behind the circuit board components as it will cause the TFT screen to push out and void the warranty.

1. Locate the solid gray 4 conductor cable from the TFT display and strip the color coded wires to a suitable length.

2. Locate the connector labeled DISPLAY on the power module. Press down on the terminal clip and insert the correct color wire. For more information, see "[Wire Schematic](#)" on page 38.

**Table 6-1: TFT Display Connector**

Use Wire Jacket Color: Solid Gray	
Terminal	Wire Color
57	Black
58	White
59	Green
60	Red

## Multiway Display

3. Run a solid gray 4 conductor cable between the primary and secondary power modules.
4. Locate the connector labeled MWay on each power module. Press down on the terminal clip and insert the correct color wire. For more information, see "[Wire Schematic](#)" on page 38.

**Table 6-2: Multiway Connector**

Use Wire Jacket Color: Solid Gray	
Terminal	Wire Color
38	Black
39	White
40	Red

## Temperature and Relative Humidity (RH) Sensor

1. Locate the factory attached 4 conductor cable from the temperature and humidity sensor and strip the color coded wires to a suitable length.
2. Locate the connector labeled SENSOR1 on the power module. Press down on the terminal clip and insert the correct color wire. For more information, see "[Wire Schematic](#)" on page 38.
3. Follow the above instructions for connecting a second temperature and humidity sensor using connector SENSOR2.

Table 6-3: Temperature/Humidity Connector	
Use Wire Jacket Color: Supplied with Sensor	
Terminal Sensor 1/2	Wire Color
53/49	Yellow
54/50	White
55/51	Green
56/52	Red

## Door Switch

### NOTICE

The power module is supplied with two small jumper wires on terminals 45–46 and 47–48. When no door switch is used, these wires must be left in place to avoid a false alarm.

1. Locate the solid gray 2 conductor cable from door switch 1 and strip the color coded wires to a suitable length.
2. Locate the connector labeled DSw1 on the power module. Press down on the terminal clip and insert the correct color wire. For more information, see "Wire Schematic" on page 38.
3. Follow the above instructions for connecting a second door switch using solid yellow wire and connector DSw2.

Table 6-4: Door Switch 1 Connector	
Use Wire Jacket Color: Solid Gray	
Terminal DSw1	Wire Color
47	Black
48	White

Table 6-5: Door Switch 2 Connector	
Use Wire Jacket Color: Solid Yellow	
Terminal DSw2	Wire Color
45	Black
46	White

## External Light Switch

1. Locate the blue stripe 4 conductor cable from the external light switch and strip the color coded wires to a suitable length.

2. Locate the connector labeled ELgt on the power module. Press down on the terminal clip and insert the correct color wire. For more information, see "Wire Schematic" on page 38.
3. Follow the above instructions for connecting a second or third door switch. The connector names are the same, listed in three rows labeled R1, R2, and R3.

Table 6-6: External Light Switch Connector	
Use Wire Jacket Color: Gray with Blue Stripe	
Terminal	Wire Color
23	Black
24	White
25	Red

## Panic Switch

1. Locate the red stripe 4 conductor cable from the panic switch and strip the color coded wires to a suitable length.
2. Locate the connector labeled PANIC on the power module. Press down on the terminal clip and insert the correct color wire. For more information, see "Wire Schematic" on page 38.
3. Follow the above instructions for connecting a second or third panic switch. The connector names are the same, listed in three rows labeled R1, R2, and R3.

Table 6-7: Panic Switch Connector	
Use Wire Jacket Color: Gray with Red Stripe	
Terminal	Wire Color
29	Black
30	White
31	Green
32	Red

## Motion Switch

### NOTICE

The power module is supplied with three small jumper wires on terminals 26–27 for the three rows, labeled R1, R2, and R3. When no motion switch is used, these wires must be left in place to avoid a false alarm.

1. Locate the white stripe 4 conductor cable from the motion switch and strip the color coded wires to a suitable length.

2. Locate the connector labeled MOT. on the power module. Press down on the terminal clip and insert the correct color wire. For more information, see "Wire Schematic" on page 38.
3. Follow the above instructions for connecting a second or third panic switch. The connector names are the same, listed in three rows labeled R1, R2, and R3.

Table 6-8: Motion Switch Connector	
Use Wire Jacket Color: Gray with White Stripe	
Terminal	Wire Color
26	Black
27	Green
28	Red

## Light Wiring



The connections used for this feature utilize 120VAC and must be performed by a licensed electrician.

### NOTICE

The light output of the power module is rated for a maximum of 5 amps at 120VAC (600 watts).

1. Locate the color-coded wires coming from the cold room lighting system.
2. Locate the connector labeled LIGHT on the power module and press down on the connector lever. Insert the correct color wire into the connector terminal and release the lever to lock in the wire. For more information, see "Wire Schematic" on page 38.

Table 6-9: Light Fixture Connector		
Use Black, White, and Green 14 AWG in Conduit		
Terminal	Function	Color
6	Line (LGT)	Black
7	Neutral (N)	White
8	Ground (G)	Green

## Jamb Heater



The connections used for this feature utilize 120VAC and must be performed by a licensed electrician.

1. Locate the color-coded wire coming from the door heater.
2. Locate the connector labeled DOOR1.H on the power module and press down on the connector lever. Insert the correct color wire into the connector terminal and release the lever to lock in the wire. For more information, see "Wire Schematic" on page 38.
3. Follow the above instructions for connecting a second door heater using connector DOOR2.H.

Table 6-10: Door 1 Heater Connector		
Use Wire Jacket Color: Supplied with Heater		
Terminal	Function	Color
12	Power (HT)	Orange
13	Neutral (N)	White

Table 6-11: Door 2 Heater Connector		
Use Wire Jacket Color: Supplied with Heater		
Terminal	Function	Color
14	Power (HT)	Red
15	Neutral (N)	White

## View (VU) Port Heater



The connections used for this feature utilize 120VAC and must be performed by a licensed electrician.

1. Locate the color-coded wire coming from the view port heater.
2. Locate the connector labeled VU.H on the power module and press down on the connector lever. Insert the correct color wire into the connector terminal and release the lever to lock in the wire. For more information, see "Wire Schematic" on page 38.

Table 6-12: View Port Heater Connector		
Use Wire Jacket Color: Supplied with Heater		
Terminal	Function	Color
16	Power (VU)	Black
17	Neutral (N)	White

## Everidge UV Pro by Aerapy®

### **⚠ WARNING**

The connections used for this feature utilize 120VAC and must be performed by a licensed electrician.

1. Locate the color-coded wire coming from the sanitation GFCI outlet.
2. Locate the connector labeled SANITATION on the power module and press down on the connector lever. Insert the correct color wire into the connector terminal and release the lever to lock in the wire. For more information, see "Wire Schematic" on page 38.

Table 6-13: Everidge UV Pro by Aerapy Connector		
Use Purple, White, and Green 14 AWG in Conduit		
Terminal	Function	Color
9	Power (ST)	Purple
10	Neutral (N)	White
11	Ground (G)	Green

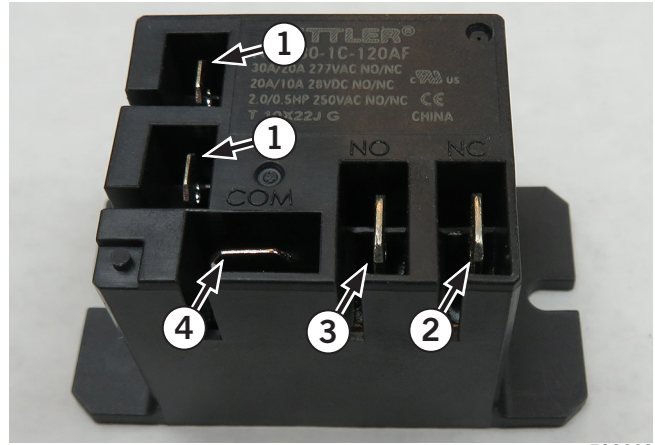
## Evaporator Fan Control

### **⚠ WARNING**

The connections used for this feature utilize 120VAC and must be performed by a licensed electrician.

1. Locate the wire coming from the evaporator fan control relay.
2. Locate the connector labeled EV.FAN on the power module and press down on the connector lever. Insert the correct color wire into the connector terminal and release the lever to lock in the wire. For more information, see "Wire Schematic" on page 38.
3. Locate the fan control relay. Connect the wires coming from the EV.FAN connection in the power module to connections (1).

4. Connect the common connection (4) and normally open connection (3) to the evaporator control circuit board. For more information, see "Wire Schematic" on page 38.



E00080

Figure 6-1: Fan Kill Relay

Table 6-14: Evaporator Fan Connector		
Use Black, White, and Green 14 AWG in Conduit		
Terminal	Function	Color
18	Power (EF) to Relay Coil	Black
19	Neutral (N) to Relay Coil	White

Table 6-15: Fan Kill Relay Connections	
Use Black, White, and Green 14 AWG in Conduit	
Callout	Function
1	Relay Coil to Power Module
2	Not Used
3	Normally Open Contact to Evaporator Control
4	Common Contact to Evaporator Control

## System Power

### **⚠ WARNING**

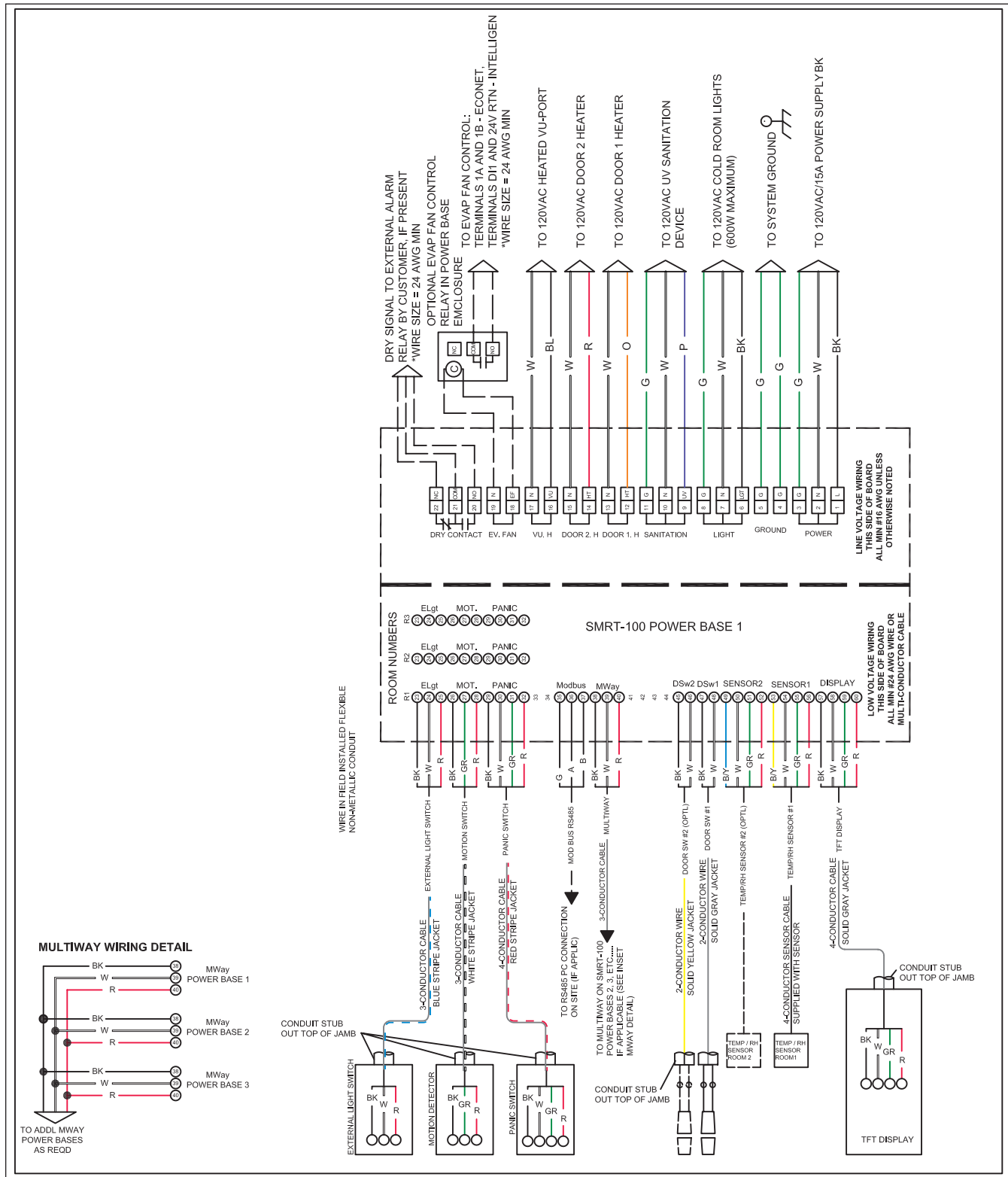
The AC supply should be disconnected at the power distribution panel before attempting to connect power to the power module. All 120VAC connections must be made by a licensed electrician.

1. Locate the AC supply wire coming from the power distribution panel.

2. Locate the connector labeled POWER on the power module and flip up the connector lever. Insert the correct color wire into the connector terminal and flip the lever down to lock in the wire. For more information, see "[Wire Schematic](#)" on page 38.

<b>Table 6-16: Power Connector</b>		
<b>Use Black, White, and Green 14 AWG in Conduit</b>		
<b>Terminal</b>	<b>Function</b>	<b>Color</b>
1	Line (L)	Black
2	Neutral (N)	White
3	Ground (G)	Green

# Wire Schematic



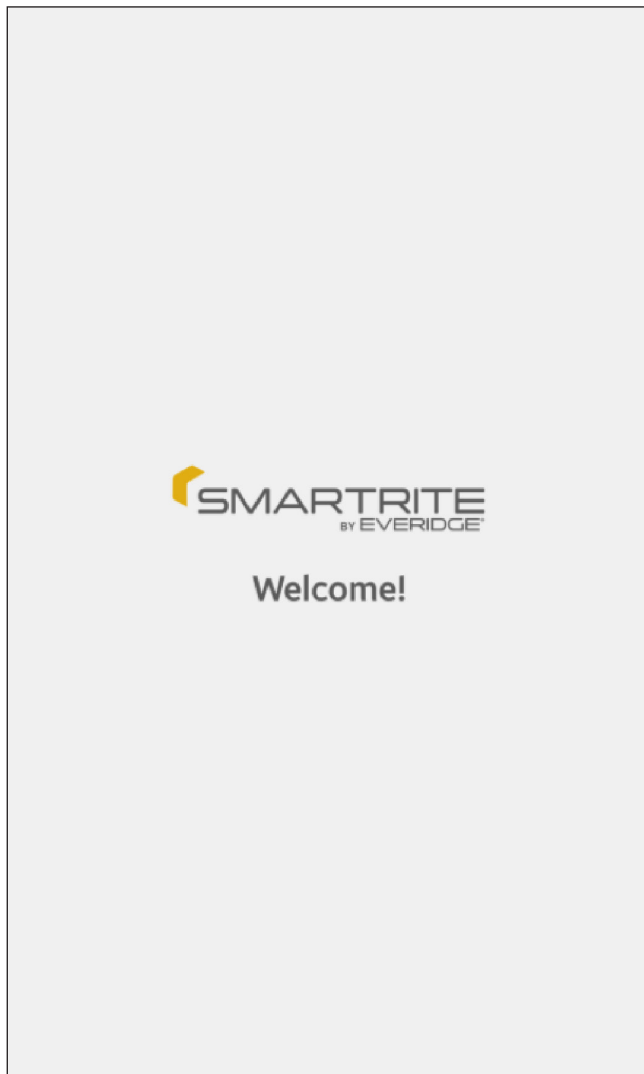
E00129

Figure 6-2: Electrical Diagram

## Display Introduction

### Initial Power Up

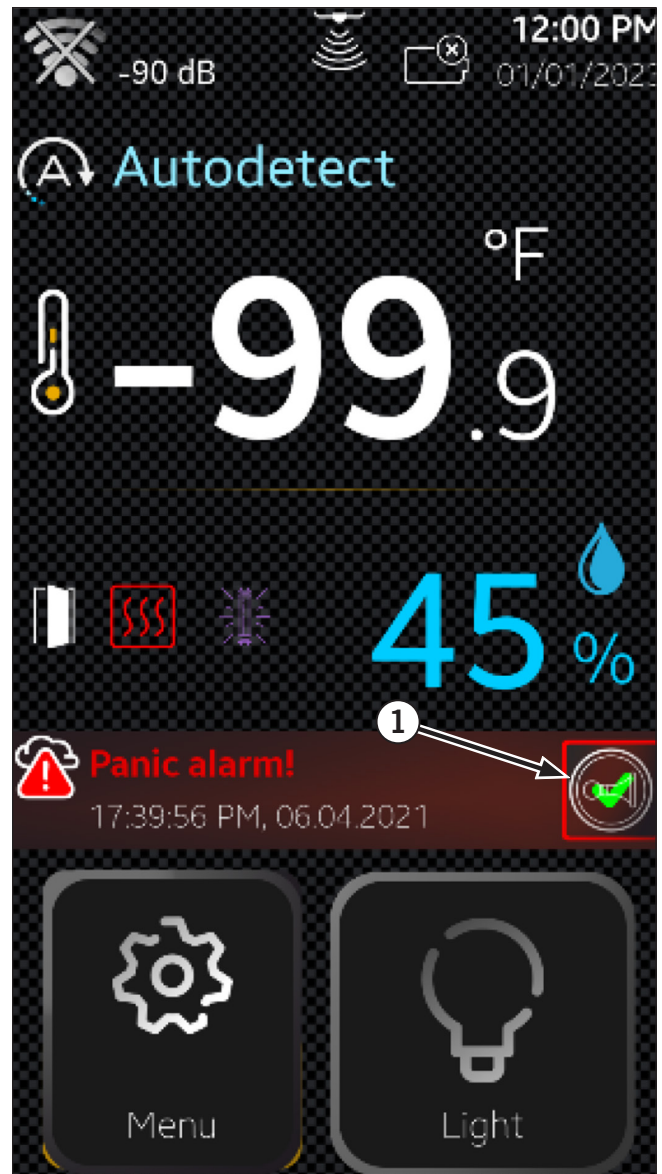
When the system is powered up for the first time, the welcome screen is displayed for a short time while the system boots to the main operation screen.



**Figure 7-1: Welcome 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 7-2: Main Operation Screen**

## Main Menu

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

1. Press the Menu button (1).



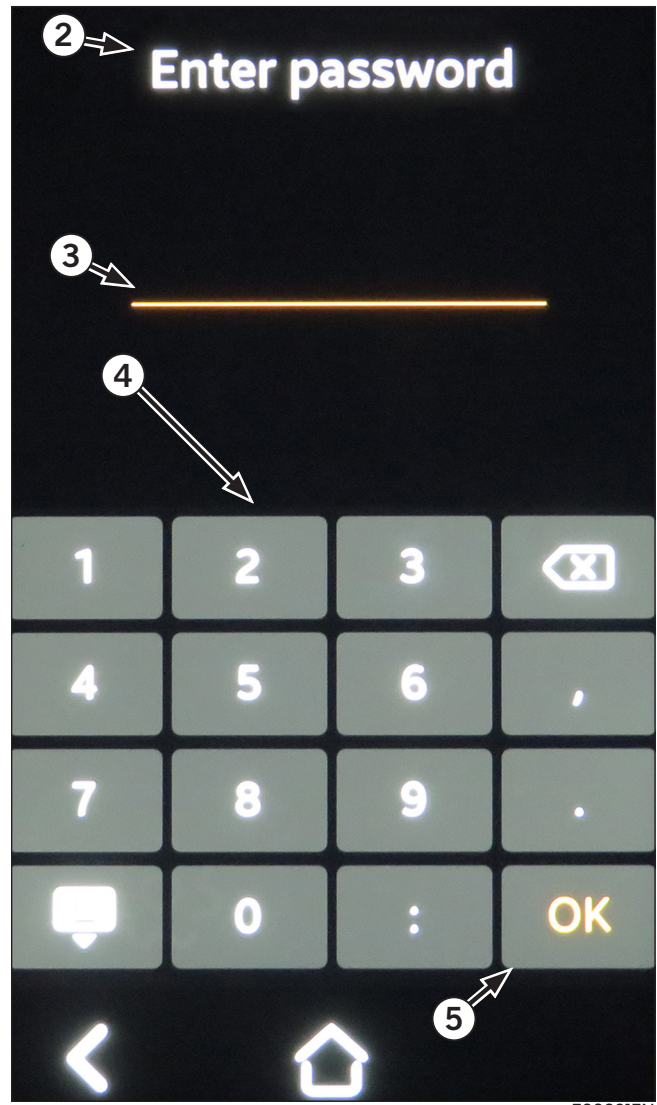
E00043EN

**Figure 7-3: Menu Button**

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).

1 2 3 4
---------

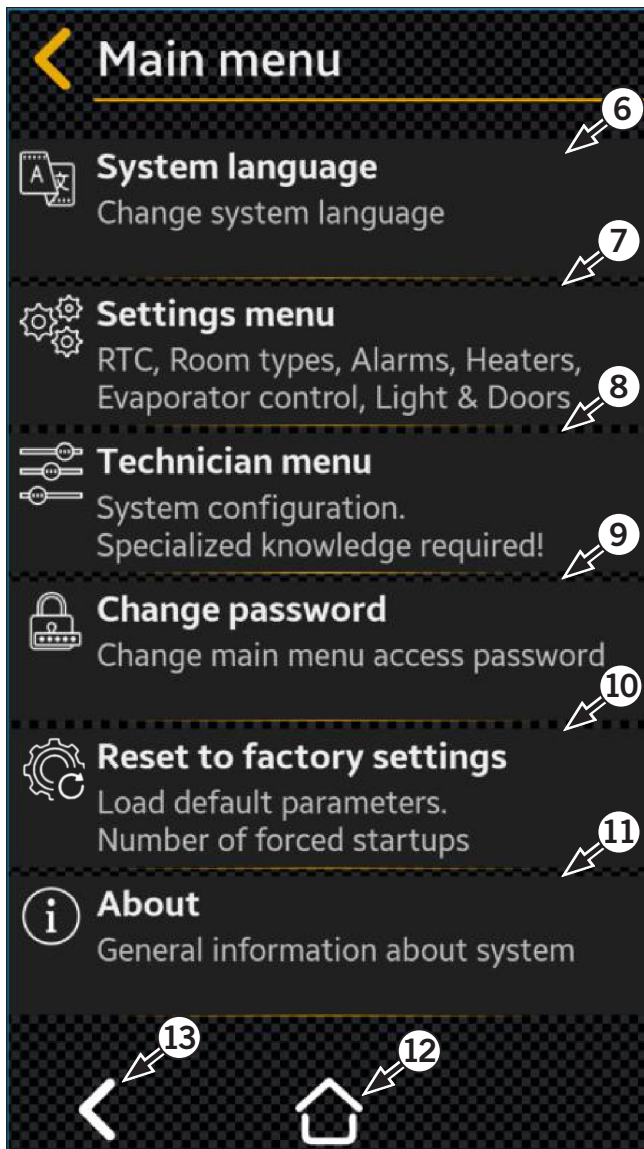
4. Press OK (5) to continue to the Main menu.



E00081EN

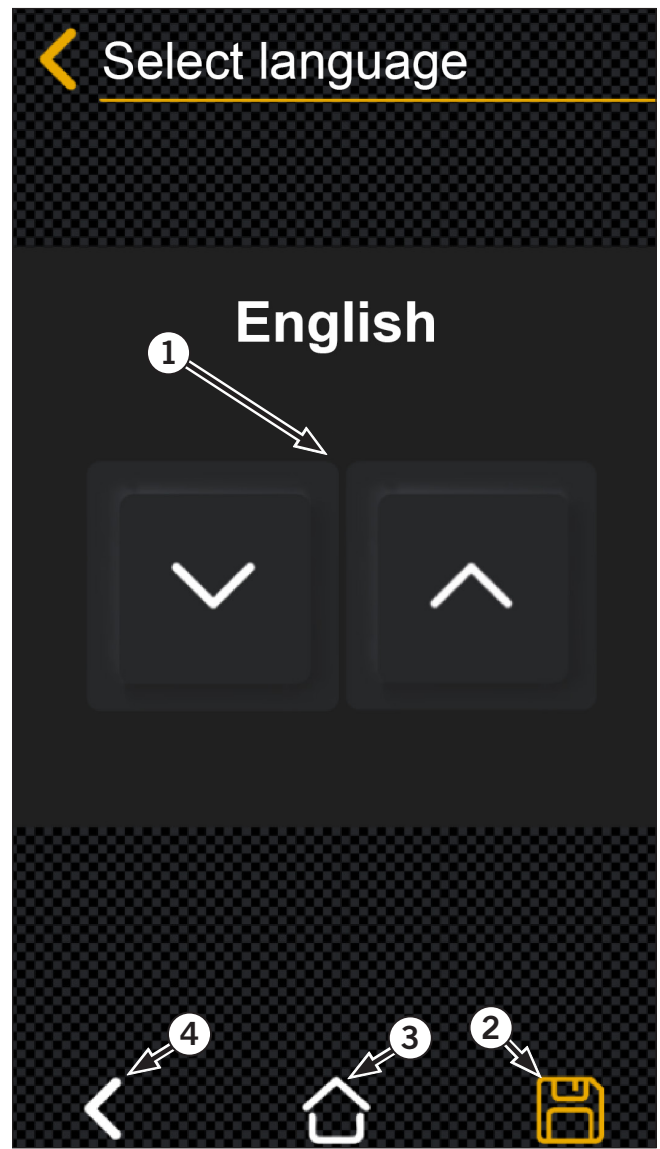
**Figure 7-4: Enter Password Screen**

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)



E00045EN

**Figure 7-5: Main Menu Categories Screen**



E00110

**Figure 7-6: Language Setting Screen**

## System Language

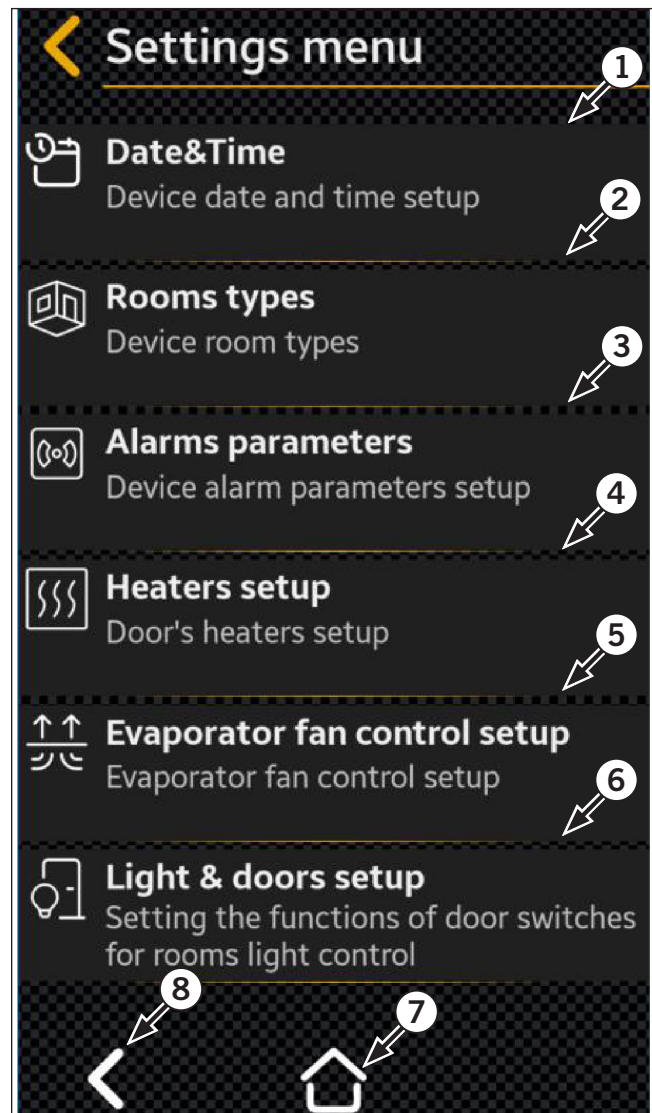
By default, the SMRT-100 is set to English and can be optionally set to Spanish.

1. Enter the Main menu. For more information, see "[Main Menu](#)" on page 40.
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 40.
2. Select 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)

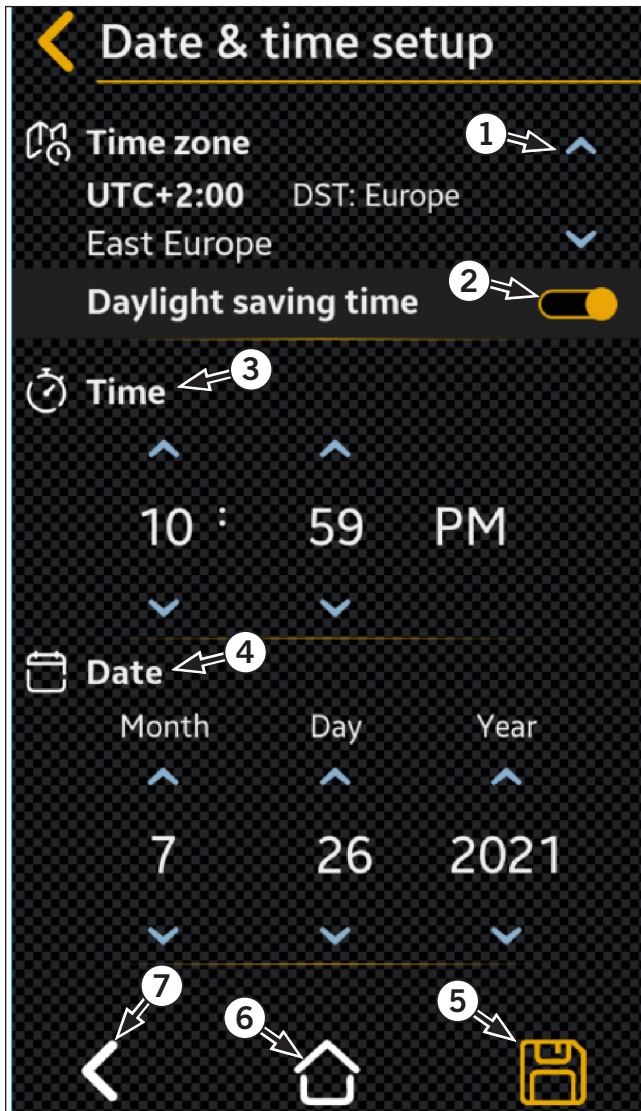


E00046EN

Figure 7-7: Settings Menu Screen

## Date and Time Setup

1. Enter the Settings menu. For more information, see "Settings Menu" on page 42.
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 home icon (6) to the return to main operation screen or the back arrow (7) to go to the previous screen.



E00047EN

**Figure 7-8: Date and Time Setup Screen**

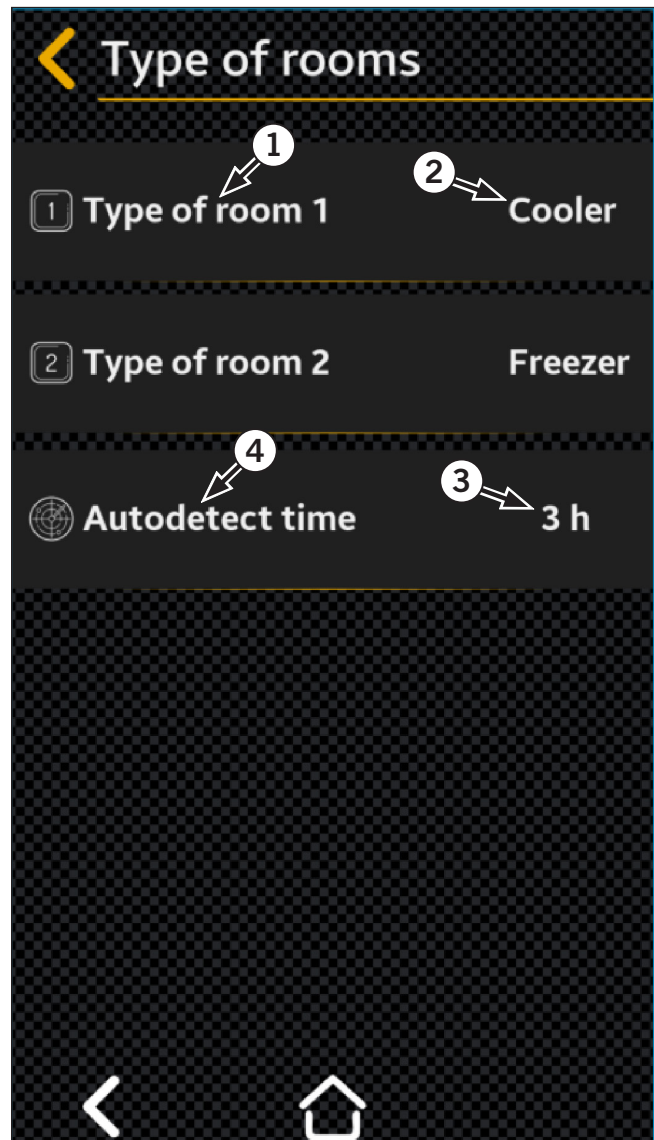
## Room Type Setup

1. Enter the Settings menu. For more information, see "[Settings Menu](#)" on page 42.
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 50.
4. Using arrows, select type based on room temperature or automatic detection.

Table 7-4: Room Type	
Cooler	Above freezing, typically 38°F (5°C)
Freezer	Below freezing, typically 0°F (-18°C)

Table 7-4: Room Type	
Automatic	Detected by room temperature

5. Select save icon and back arrow button.
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.

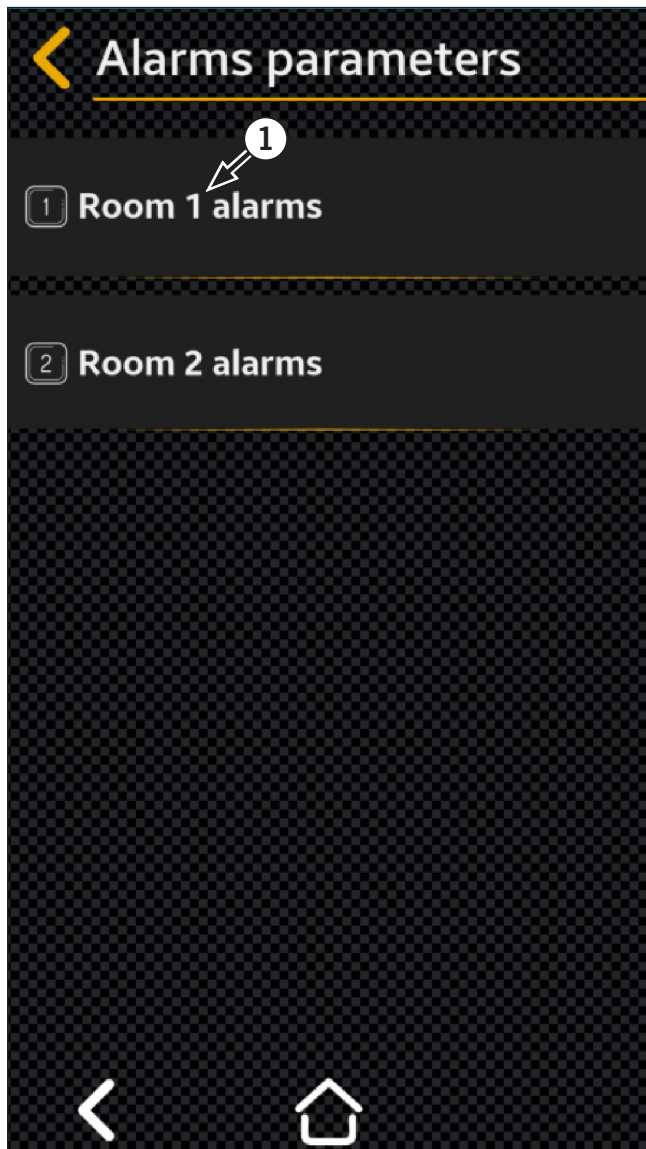


E00048EN

**Figure 7-9: Room Type Setup Screen**

## Alarm Parameter Setup

1. Enter the Settings menu. For more information, see "Settings Menu" on page 42.
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 50.



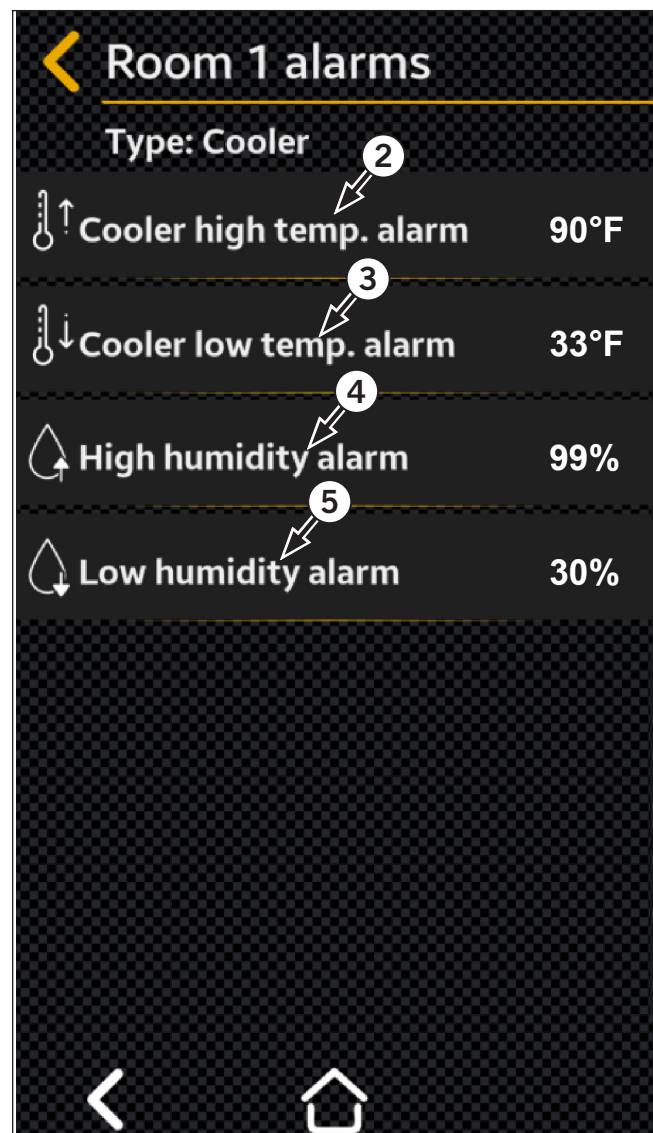
E00049EN

**Figure 7-10: Alarms Parameter Screen**

The room alarm parameter screen sets up the alarm parameter.

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.



E00018

**Figure 7-11: Alarm Setting Screen**

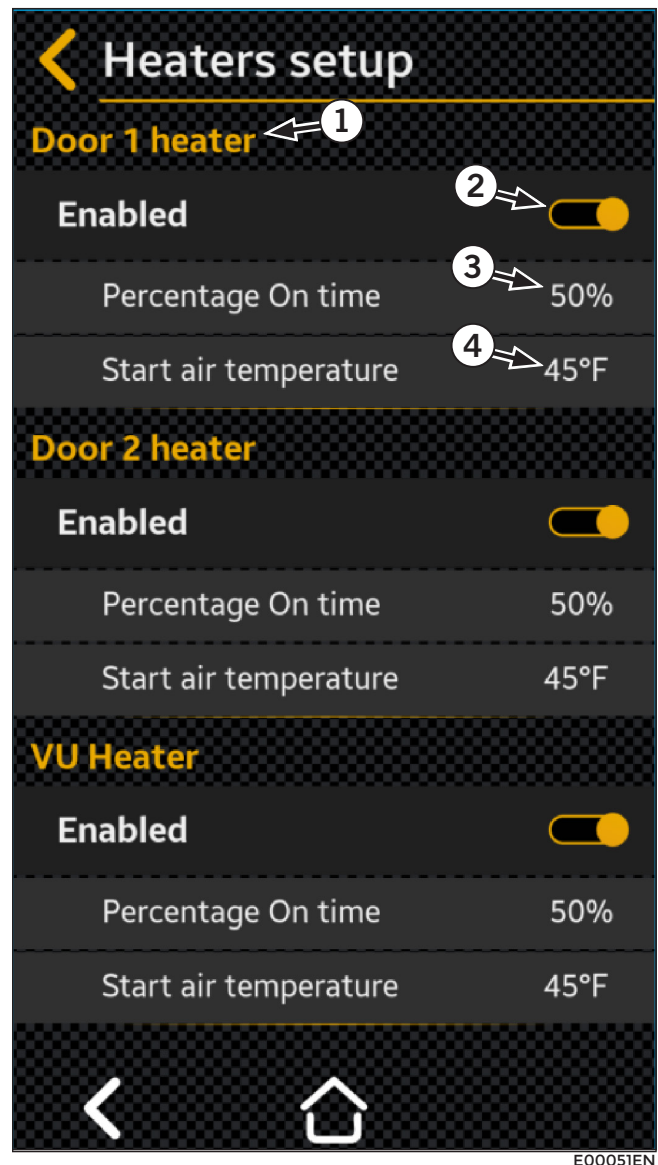
## Heater Setup

### 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 42.
2. Select Heaters setup.
3. Select the heater (1) to be setup
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.



E00051EN

**Figure 7-12: Heater Setup Screen**

## 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 42.
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.

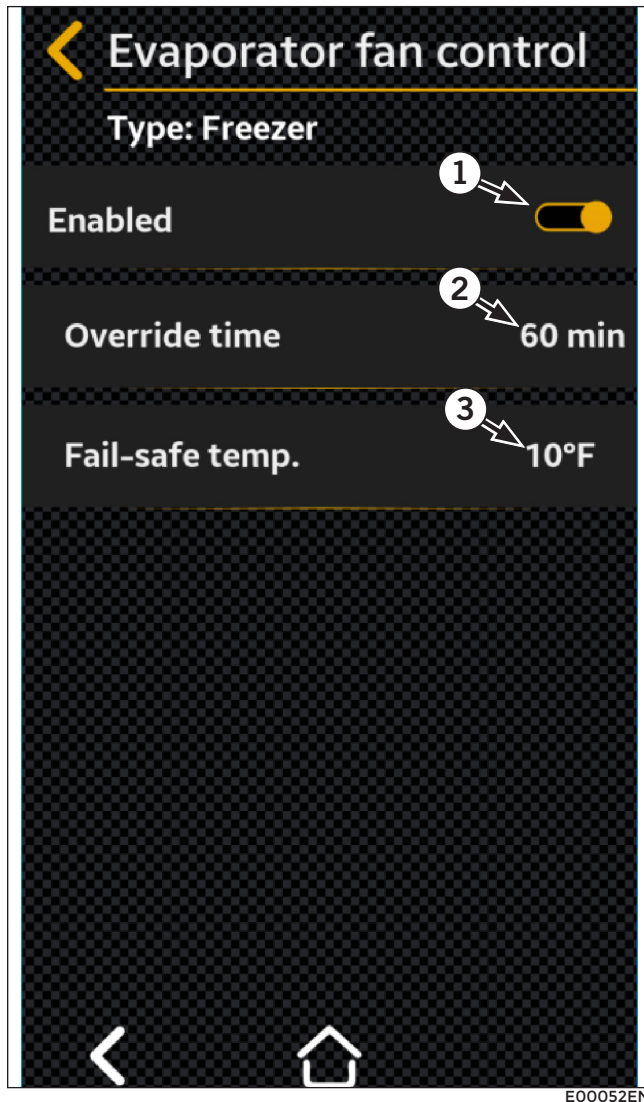


Figure 7-13: Evaporator Fan Control Setup Screen

## Light and Door Setup

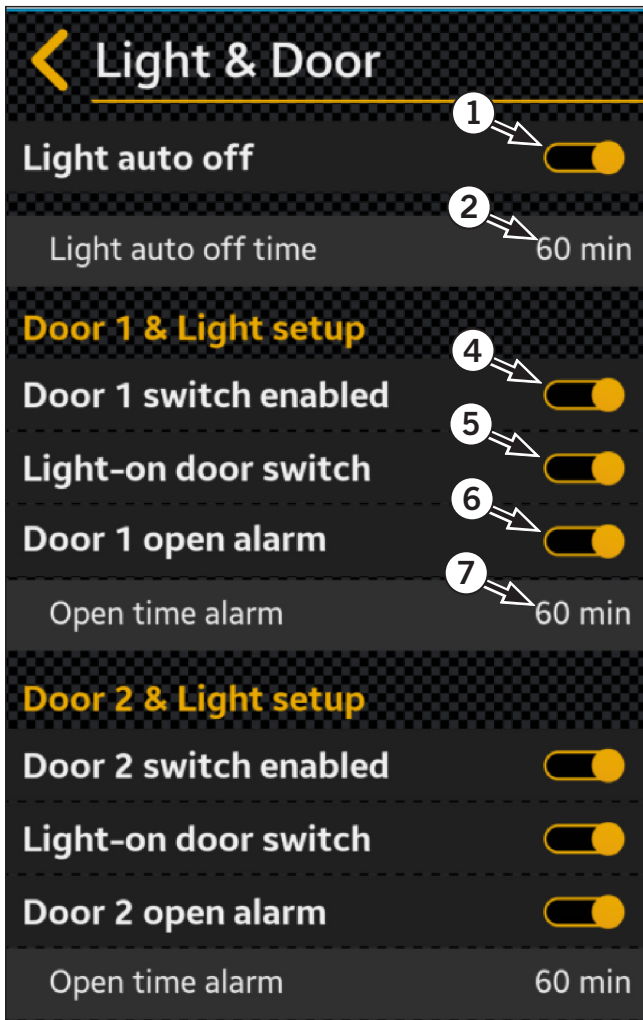
The light and door control is used to control optional lighting when used in conjunction with optional door, motion, and external switches.

1. Enter the Settings menu. For more information, see "Settings Menu" on page 42.
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. For more information, see "Door Switch" on page 34.

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.



E00053EN

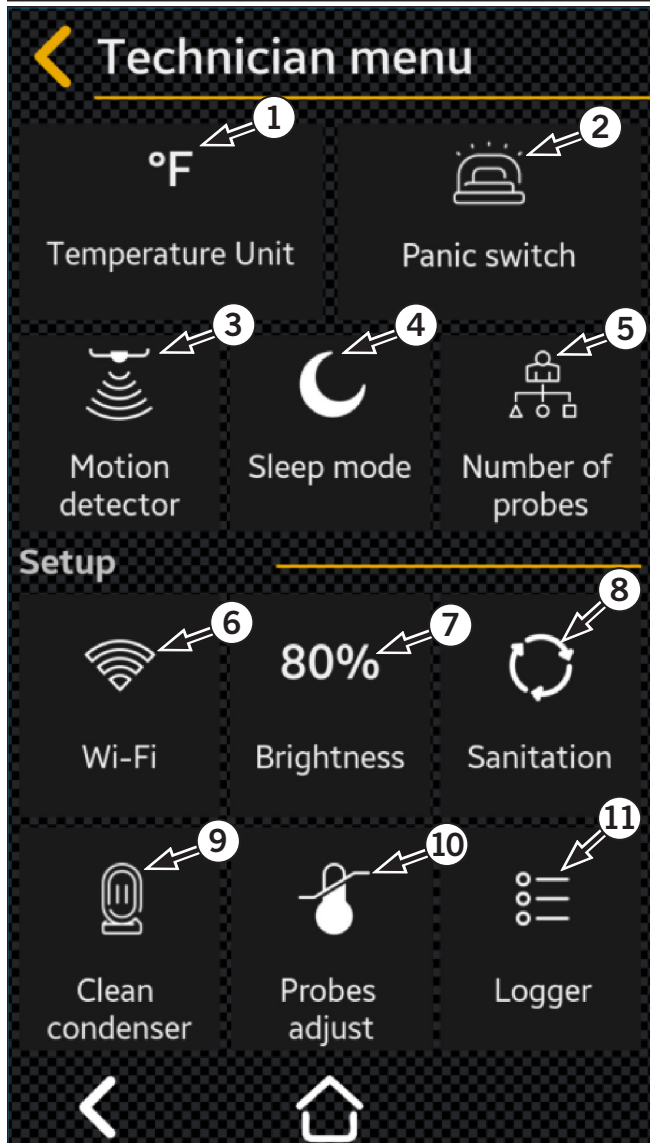
**Figure 7-14: Door Light Setup Screen**

## Technician Menu

1. Enter the Main menu. For more information, see "Main Menu" on page 40.
2. Select Technician menu from the Main menu.

Table 7-5: 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 7-5: Technician Menu	
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



E00055EN

**Figure 7-15: Technician Menu Screen**

## 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 40.
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.

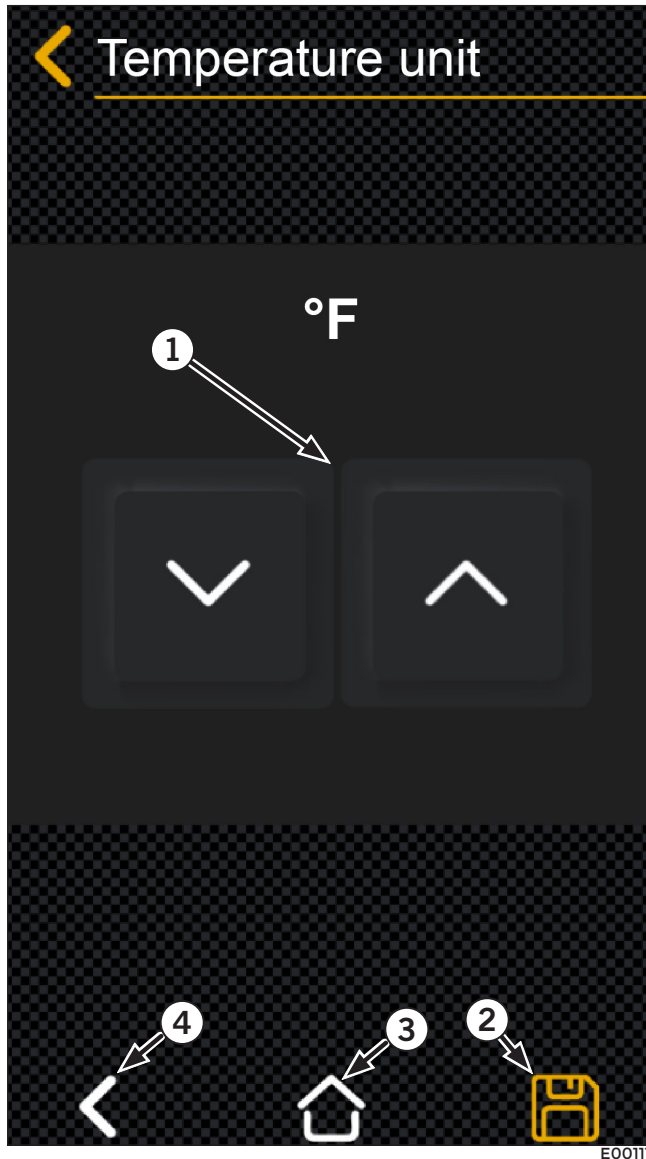


Figure 7-16: Temperature Unit Screen

## 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.

1. Enter the Main menu. For more

information, see "Main Menu" on page 40.

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.

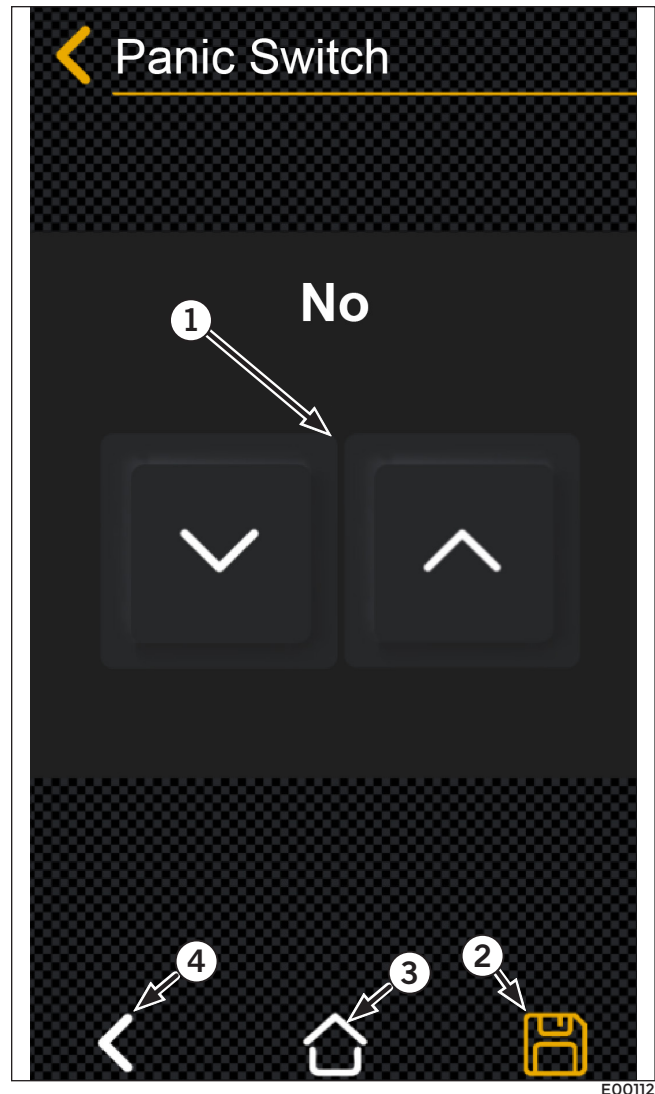


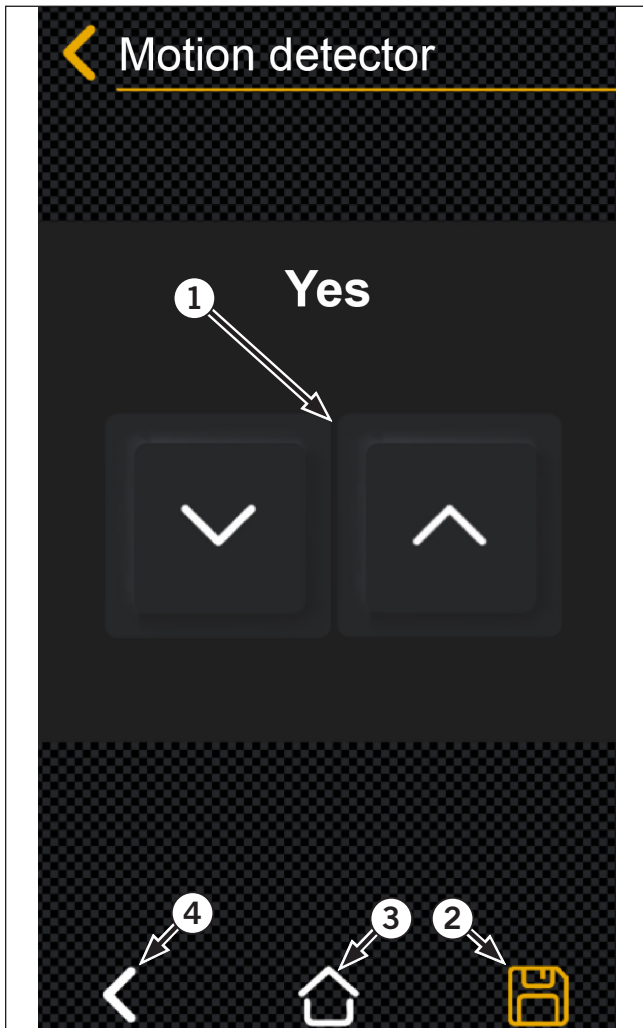
Figure 7-17: Panic Switch Screen

## 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 40.
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 7-18: Motion Switch Screen**

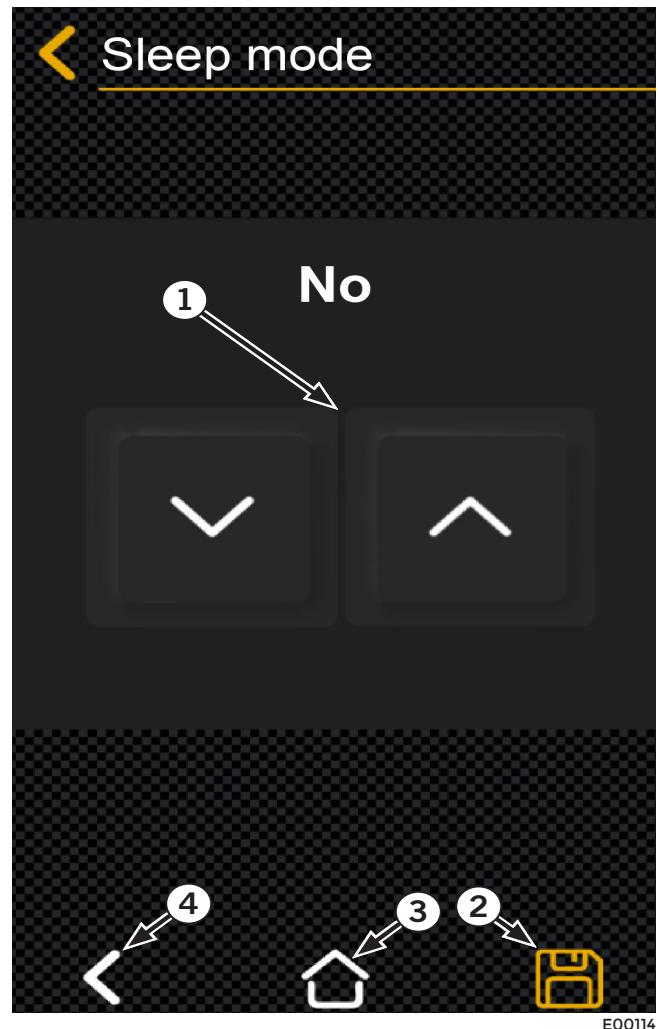
### Sleep Mode

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 40.
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 7-19: Sleep Mode Screen**

## 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 40.
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 7-20: Number of Probes Screen

## Wi-Fi Enable

Wi-Fi is used as a wireless method to provide high-speed internet access 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 40.
2. Select Wi-Fi.
3. Select the active slide button (1) to enable the Wi-Fi system.
4. If a previous network was setup, 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 62.
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.

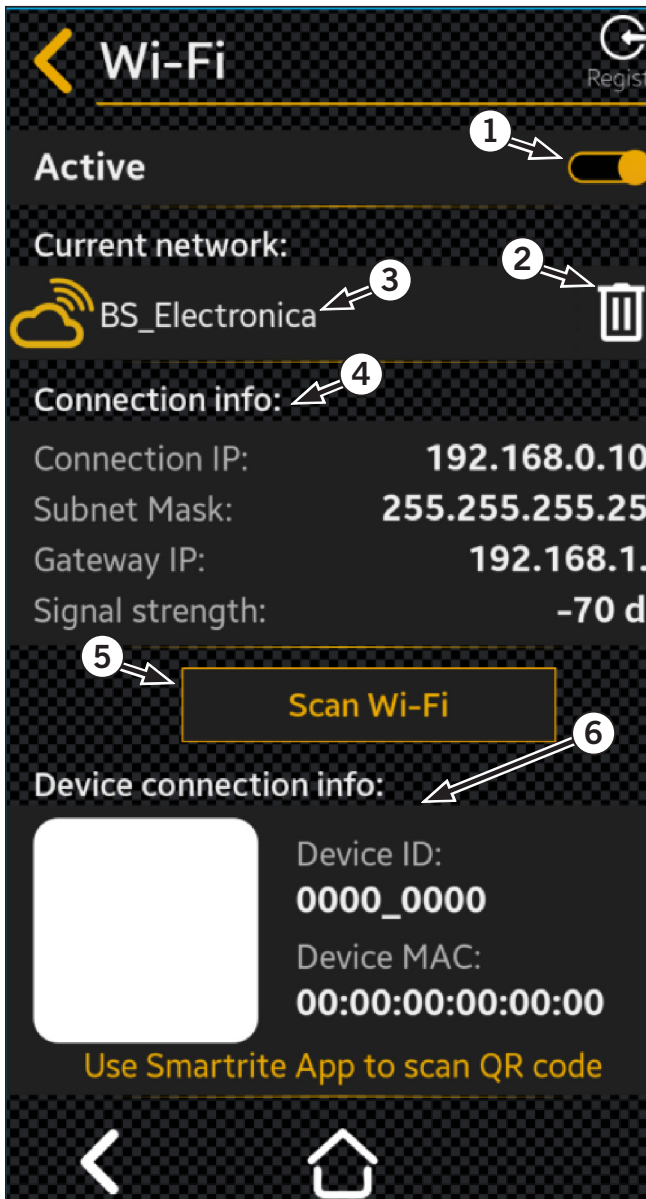


Figure 7-21: Wi-Fi Enable Screen

**Select Network**

**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.

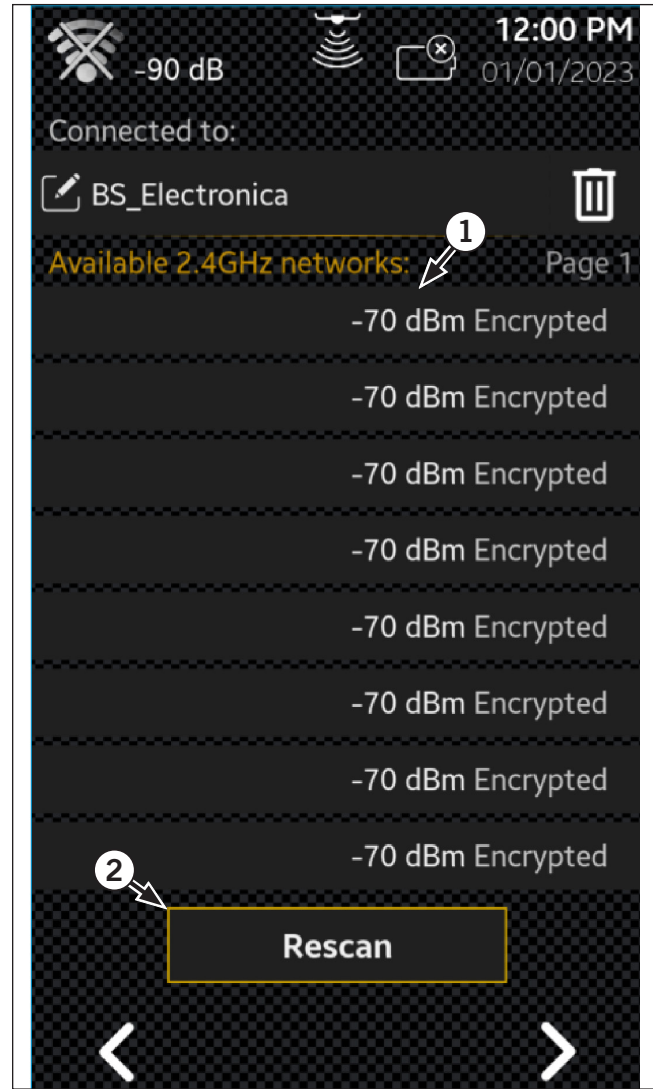


Figure 7-22: Selected Networks Screen

**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.

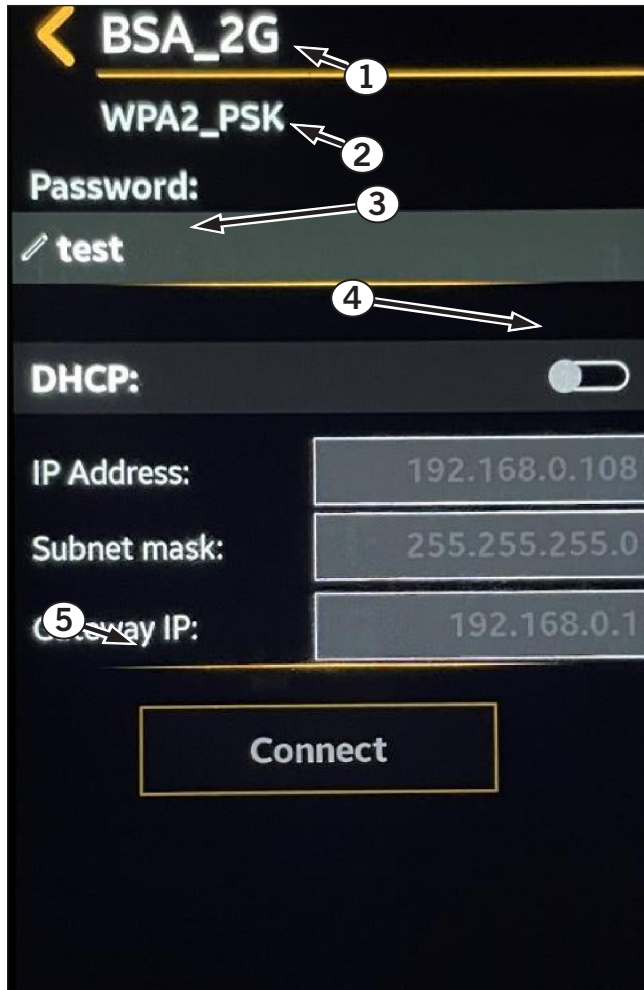


Figure 7-23: Password Screen

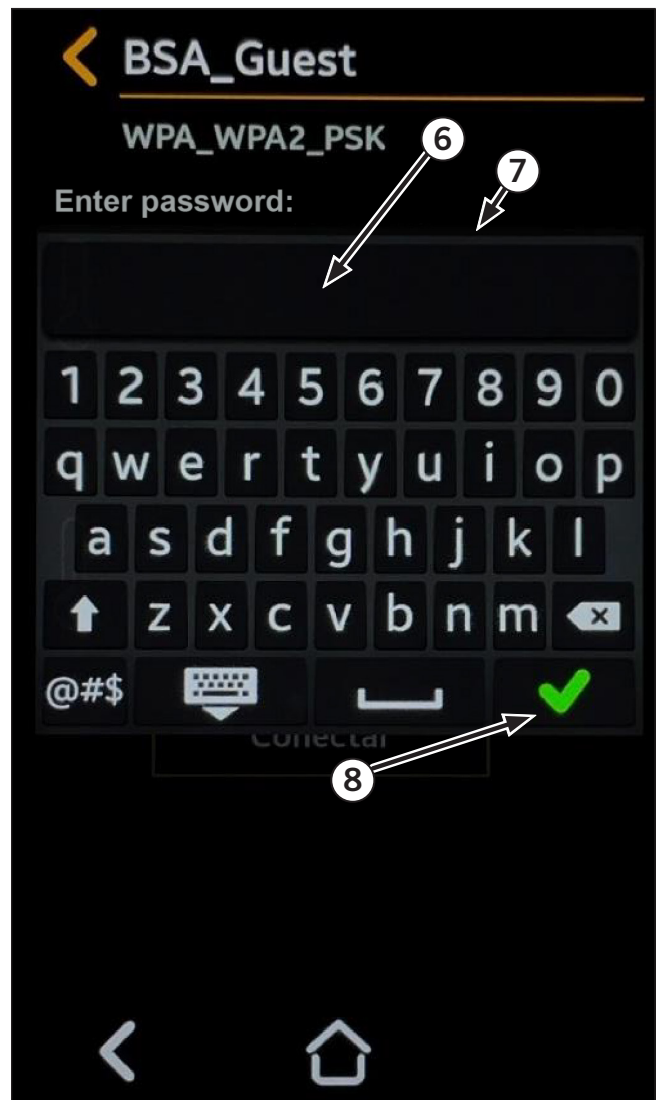


Figure 7-24: Keyboard Screen

## 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 40.
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.

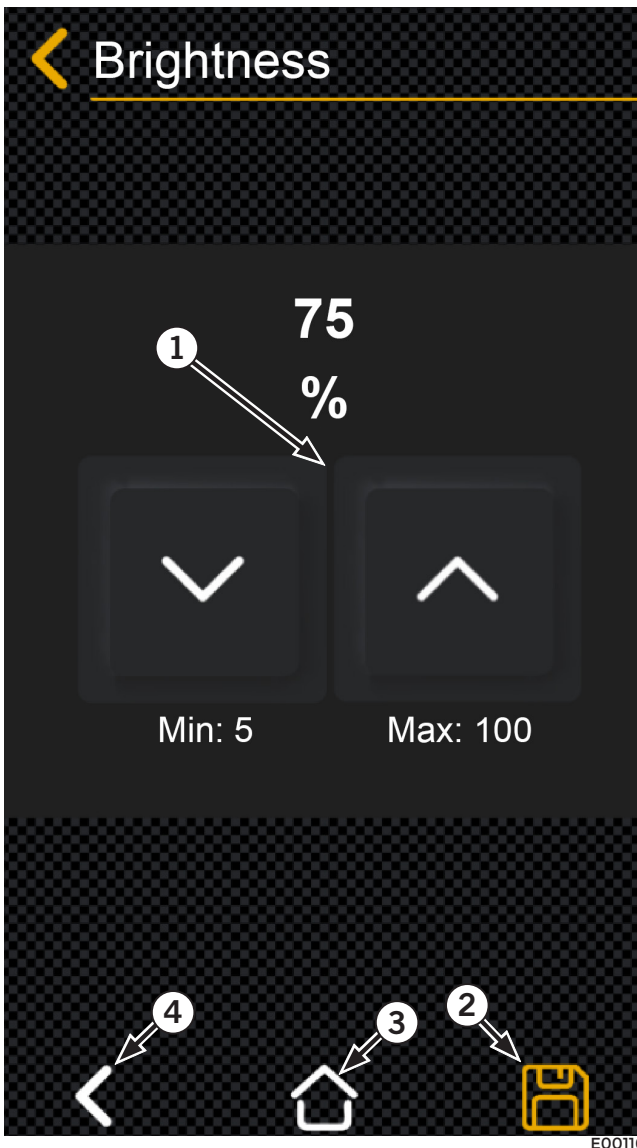


Figure 7-25: Brightness Screen

## 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 40.
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.

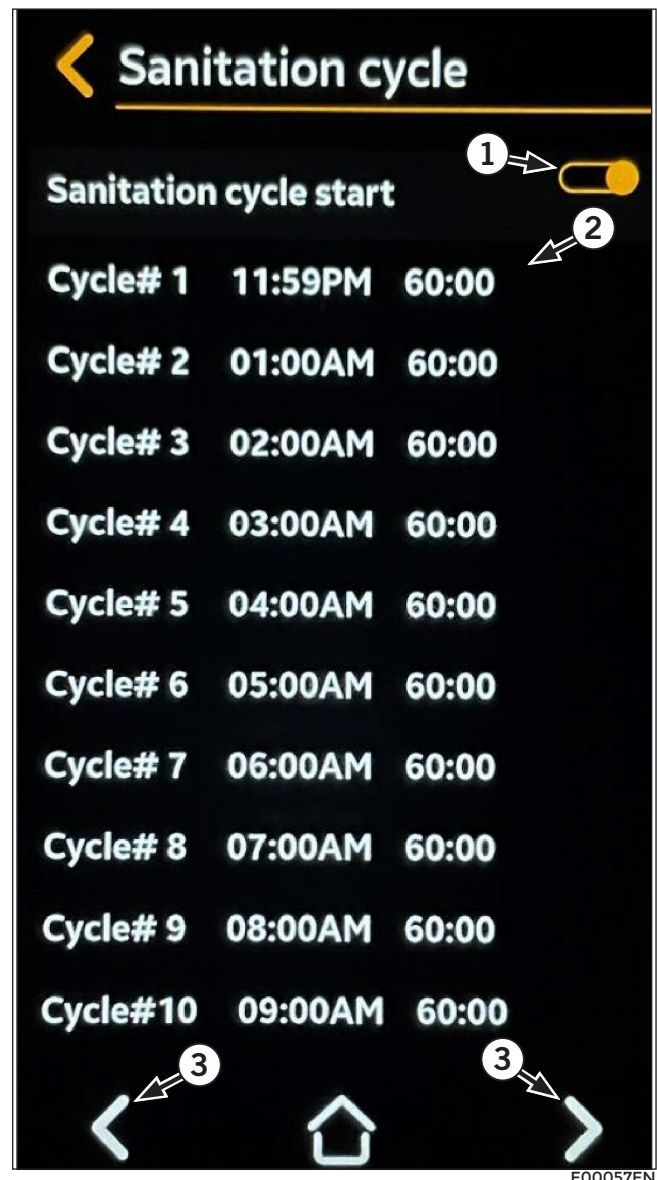


Figure 7-26: Sanitation Cycle Screen

### 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.

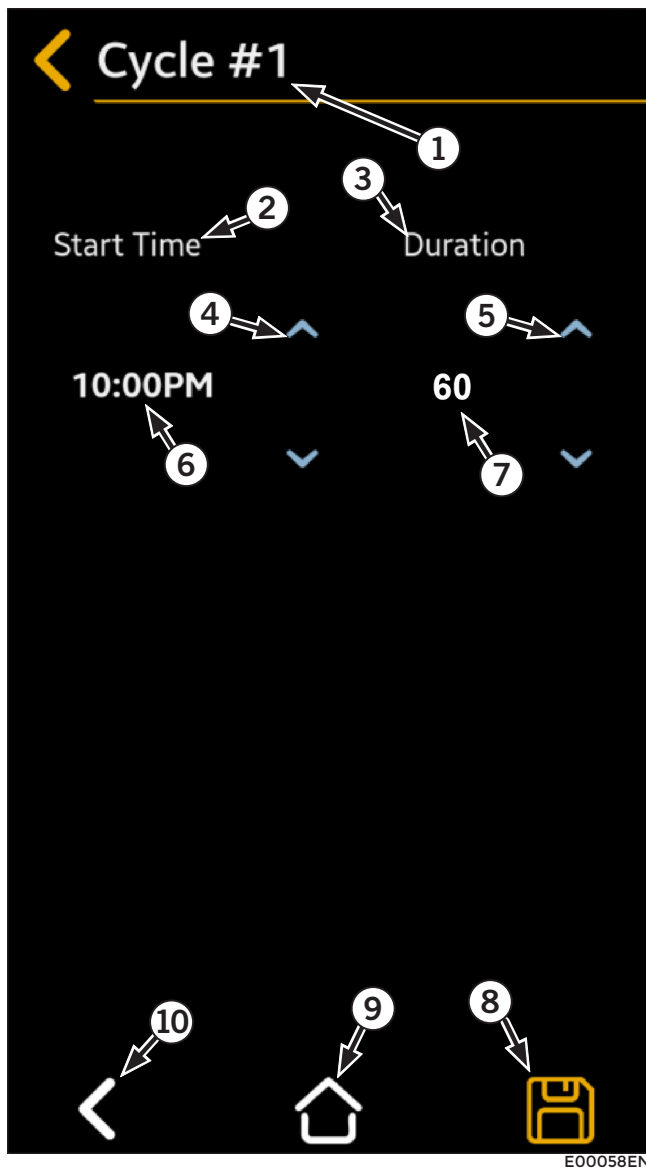


Figure 7-27: Cycle Time Adjust Screen

### 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 40.
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.

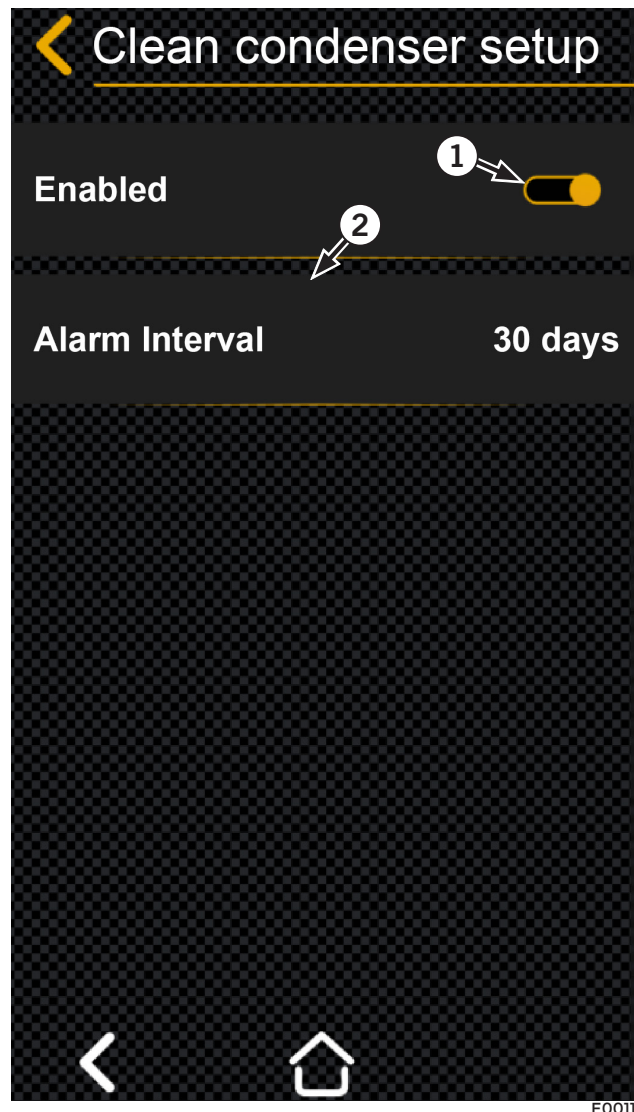
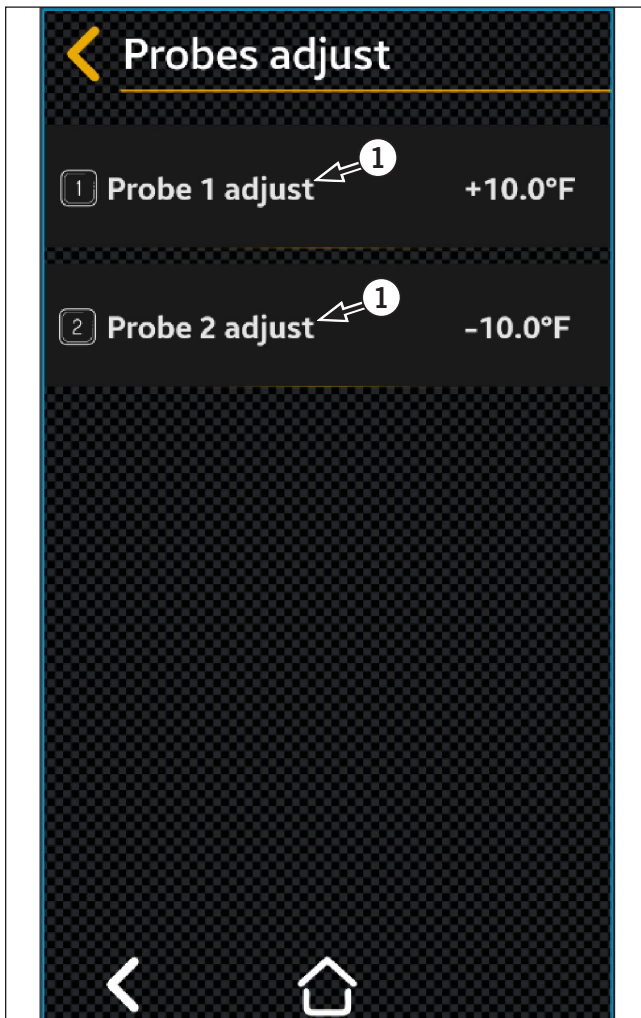


Figure 7-28: Clean Condenser Screen

## 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 40.
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.



E00056EN

**Figure 7-29: Probe Adjust Screen**

## 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 40.
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.

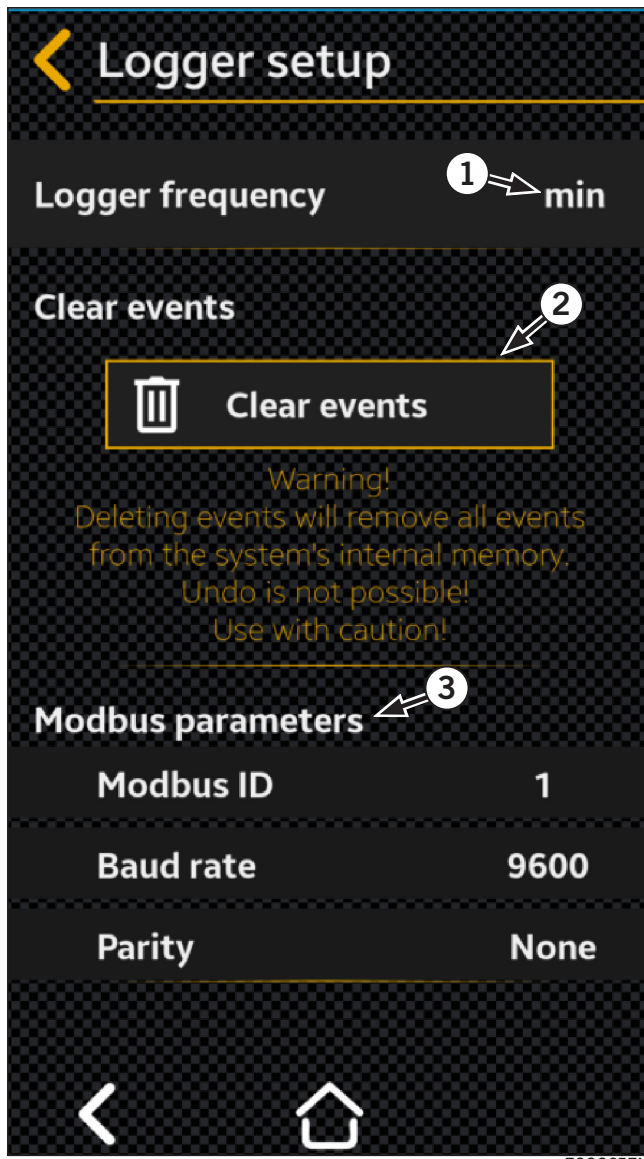


Figure 7-30: Logger Setup Screen

## Change Password

Password screen is used for customization of the password.

1. Enter the Main menu. For more information, see "[Main Menu](#)" on page 40.
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.

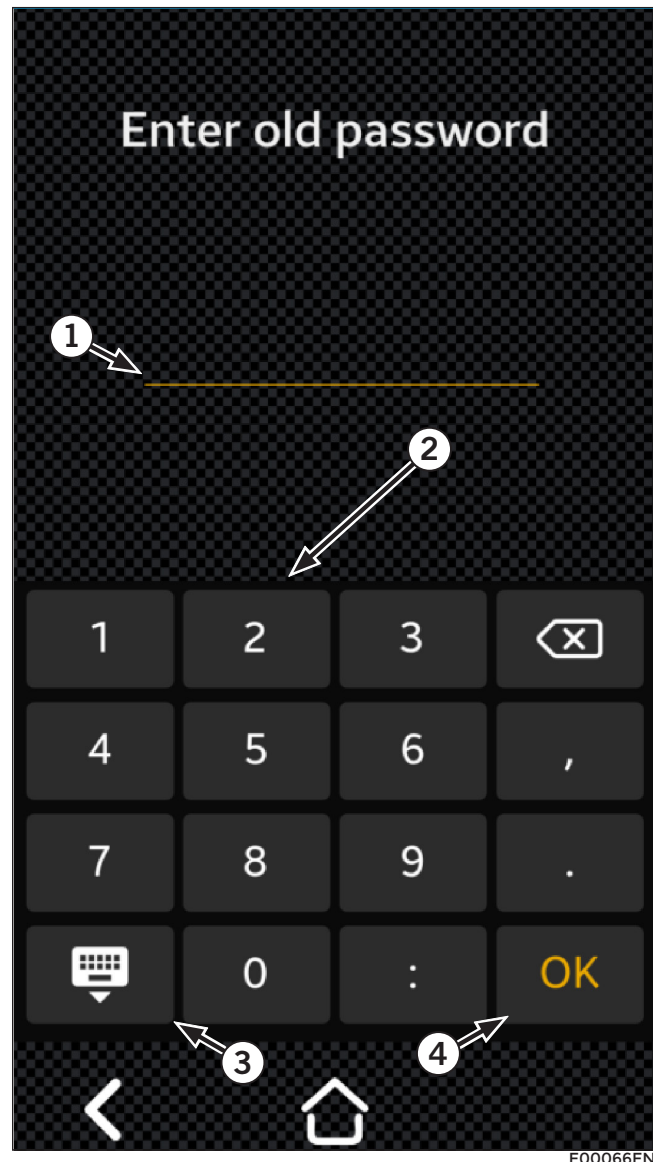


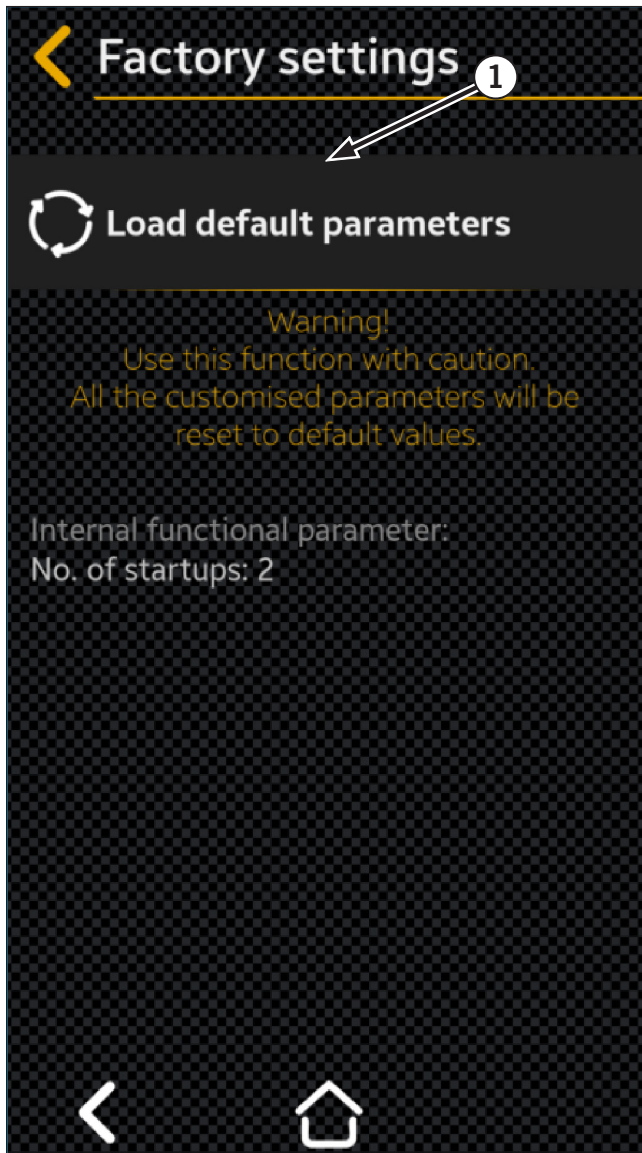
Figure 7-31: Change Password Screen

## Reset to Factory Setting

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

1. Enter the Main menu. For more information, see "[Main Menu](#)" on page 40.

2. Select Reset to factory settings from the Main menu.
3. Select Load default parameters (1).



E00064EN

**Figure 7-32: Factory Reset Screen**

## 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 40.
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.



E00065EN

**Figure 7-33: About Screen**

## 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 42.

### NOTICE

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

On-site monitoring and interaction is done through the 5 inch system display. All examples in this manual show the system configured for an optional two room operation.

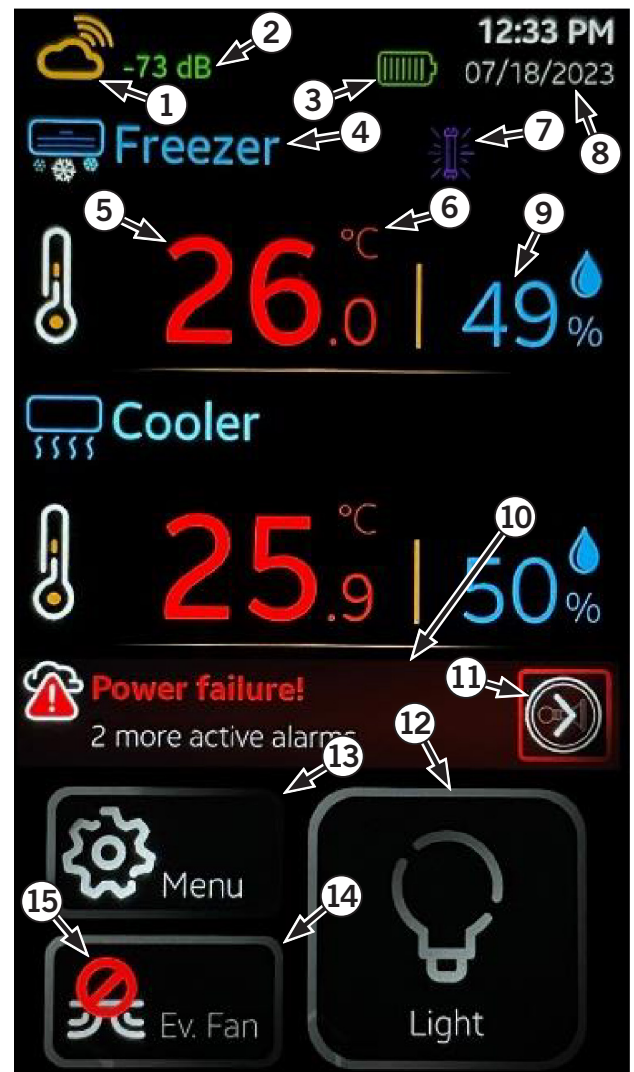
## Display Operation

Table 8-1: Main Operation Screen		
Callout	Name	Description
1	Wi-Fi Icon	Displays the connection status to an internet router and 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

**Table 8-1: Main Operation Screen**

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.



E00044EN

**Figure 8-1: Main Operation Screen**

## 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 42.



E00067EN

**Figure 8-2: Alarm List**

## Alarm Edit

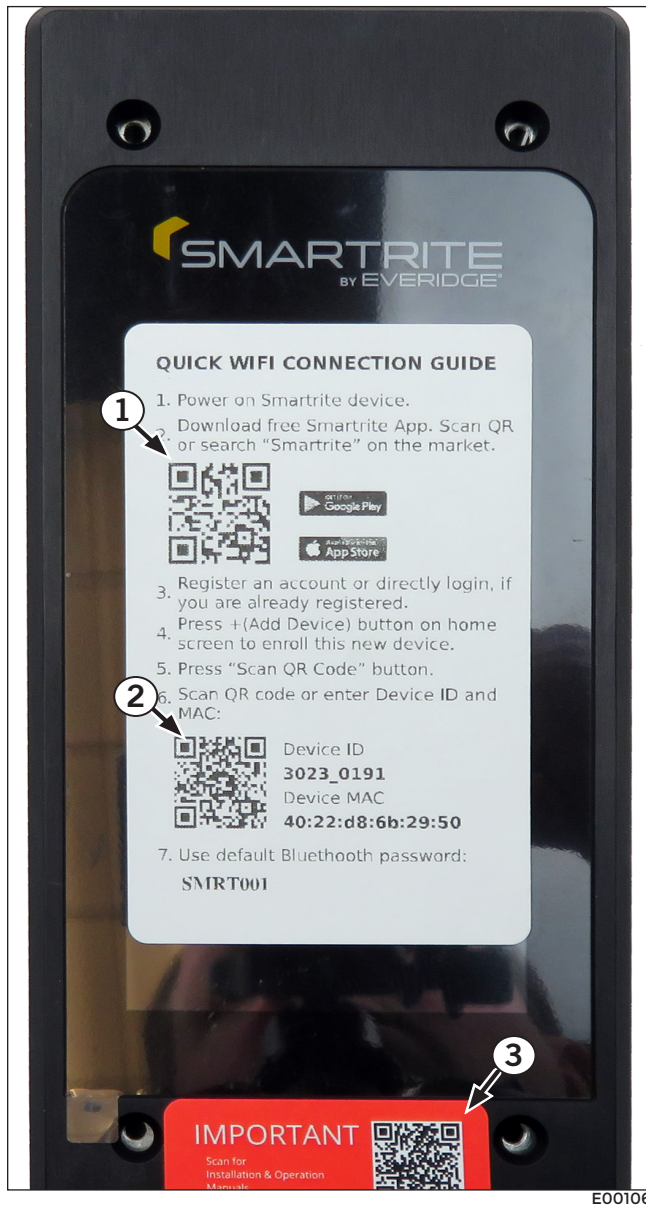
The user can enter minimum and maximum temperature and humidity, door open intervals, and panic situations to trigger alarms. For more information, see "Settings Menu" on page 42.

## 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.

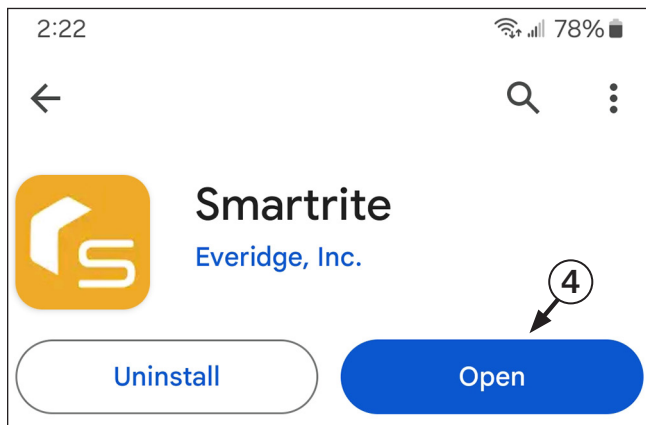
1. Download the Everidge App on the smart device. The download can be found by scanning the QR App link (1) from the shipping sticker on the display or by searching Everidge Smartrite from where applications are obtained from on the smart device.

Calout	Description
1	QR App link
2	QR system information/system information
3	QR online information link



**Figure 8-3: QR Code**

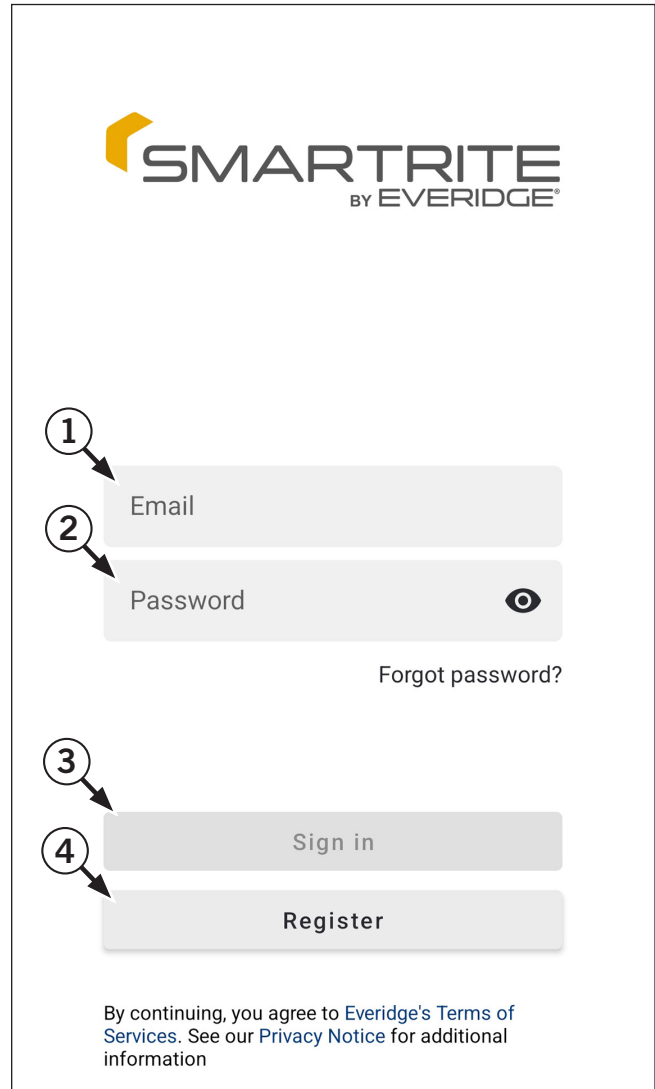
- Once the app is downloaded, install the app and select Open (4).



**Figure 8-4: App Install**

## Create an Account

- 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).



**Figure 8-5: Register Account**

- Enter user First name (5), Last name (6), Email address (7), Mobile phone number (8), and Password (9) in the corresponding fields.
- Create a unique password and enter it in the Password field (9). Re-enter the password in the Confirm password field (10).
- Scroll the screen down and enter Company details (11).
  - Fields without a red asterisk are optional.

- Once details have been entered, select Register my account.

The screenshot shows a mobile application interface for registering an account. At the top, there is a yellow header with a back arrow and the word "Register". Below this, the form is divided into two sections: "User details" and "Company details".

**User details section:**

- 5:** First name \*
- 6:** Last name \*
- 7:** Email \*
- 8:** Mobile phone
- 9:** Password \*
- 10:** Confirm password \*

**Company details section:**

- 11:** Company name \*

Each field is represented by a white input box with a red asterisk indicating it is required. The "Password" and "Confirm password" fields have an eye icon to toggle visibility. The "Company name" field is partially visible at the bottom.

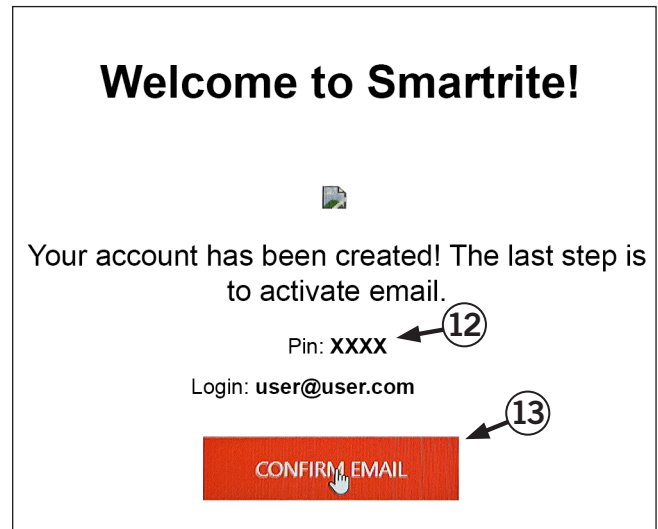
**Figure 8-6: Account Information**

- A confirmation email will be sent to the user's email address.

**NOTICE**

**Record the Personal Identification Number (PIN).**

- Record the four-digit Pin number (12).
- Press the CONFIRM EMAIL button (13).



**Figure 8-7: Welcome Pin**

- A second confirmation email will be sent. Enter the Pin number into the Pin field (14) and select Confirm account (15).

The screenshot shows a confirmation screen titled "Enter Pin". It features two input fields: "Email \*" containing "user@user.com" with a circled 14 pointing to it, and "Pin \*" which is empty with a circled 15 pointing to it. Below the fields is a blue button labeled "Confirm account".

**Figure 8-8: Enter Pin**

### Connect Device

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

- Manually add device
- Bluetooth<sup>®</sup> 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 50.

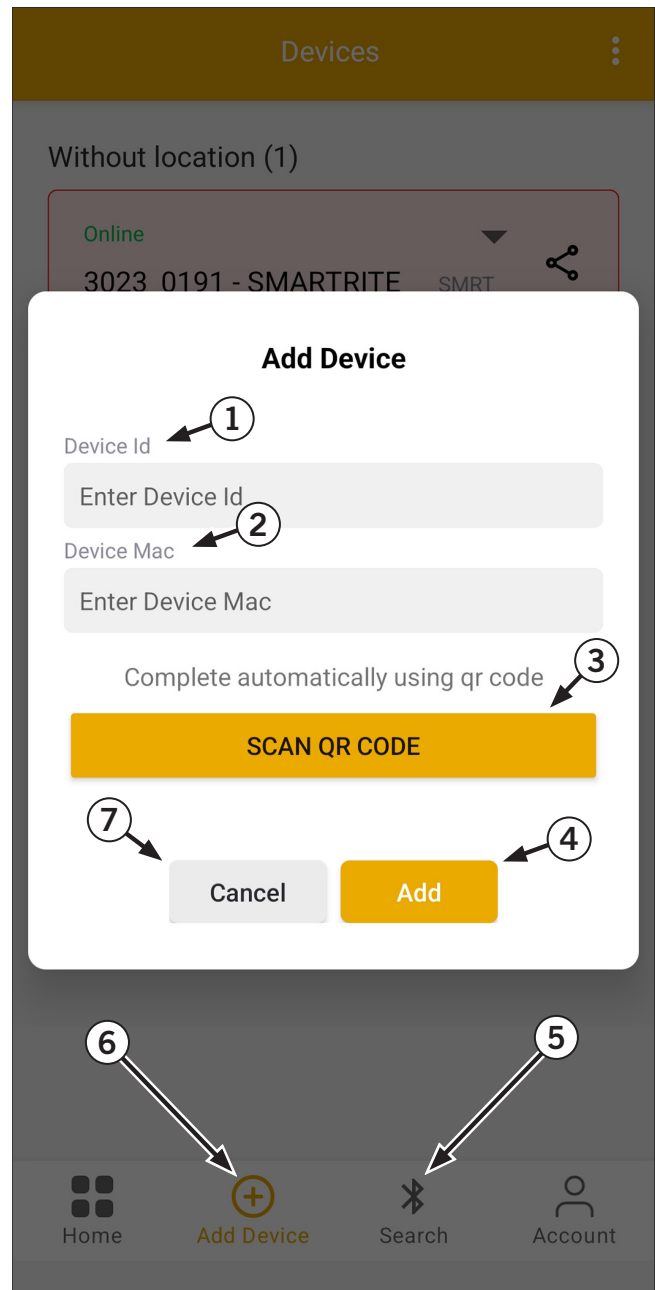
1. Select the add Device button (6) and Add Device window will open.
2. Locate the device information. This can be found on the shipping sticker from the front of the display or by entering the Wi-Fi menu. For more information, see "[Wi-Fi Enable](#)" on page 50.
3. Select the SCAN QR CODE (3). This 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 50.
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.

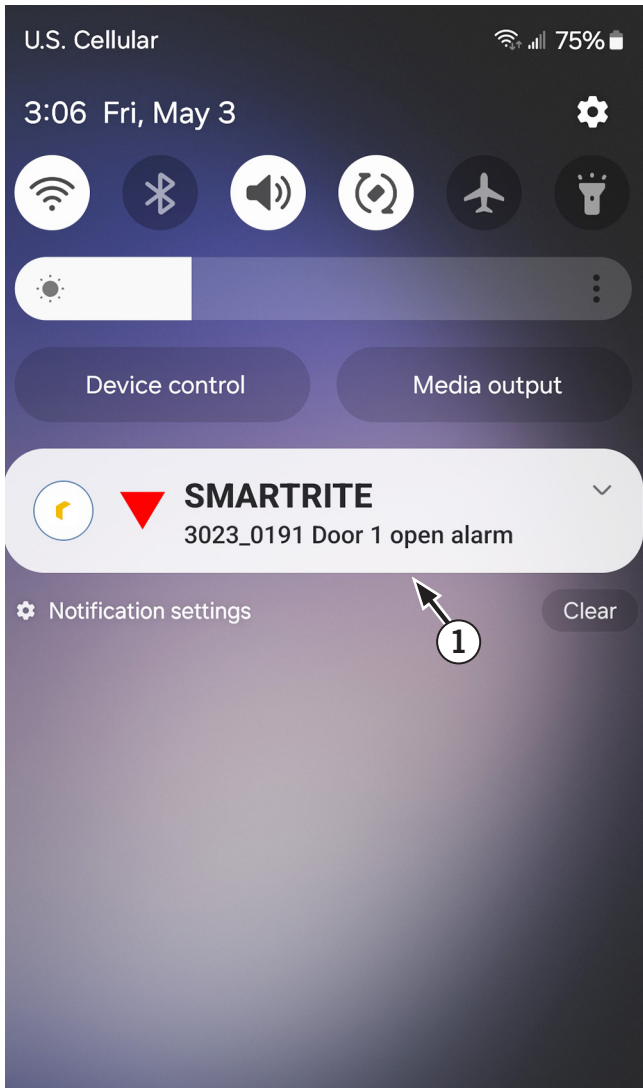


E00093

Figure 8-9: Add Device

### 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 63.



E00092

**Figure 8-10: Notification**

## 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

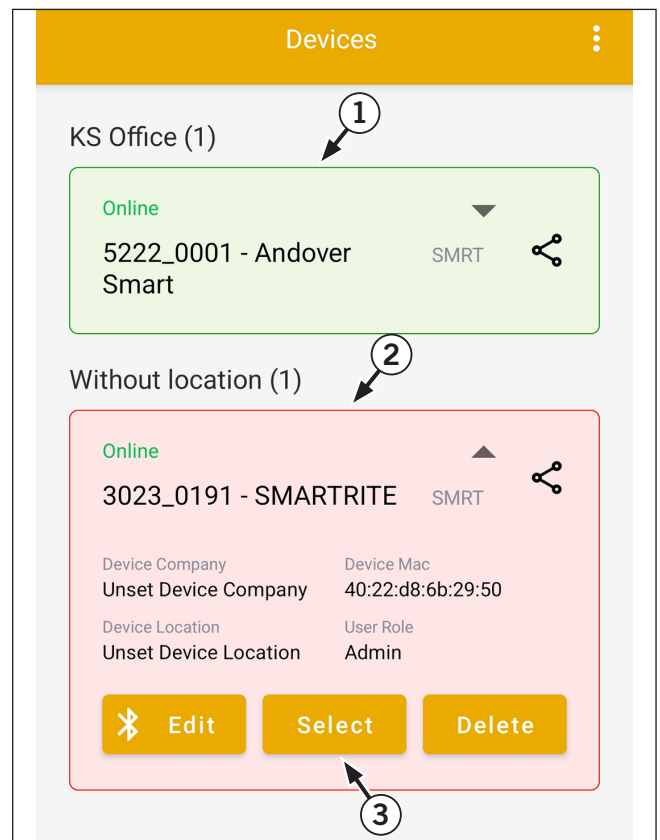
- Indicates the device is online and transmitting live events to the app.

### Grey

- Indicates the device is offline and in 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).



E00107

**Figure 8-11: Two Room Device**

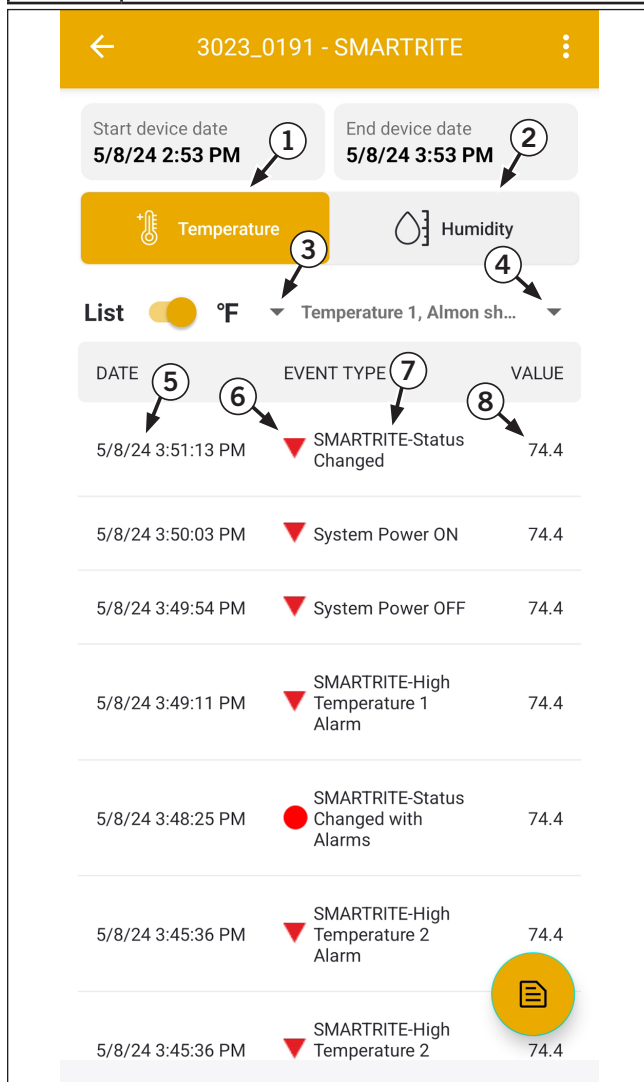
## Event List

By default, the monitoring period is set for 1 hour. To view longer durations, see ["Event History"](#) on page 65.

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 63.
2. To display temperature or humidity, select either Temperature (1) or Humidity (2).

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

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



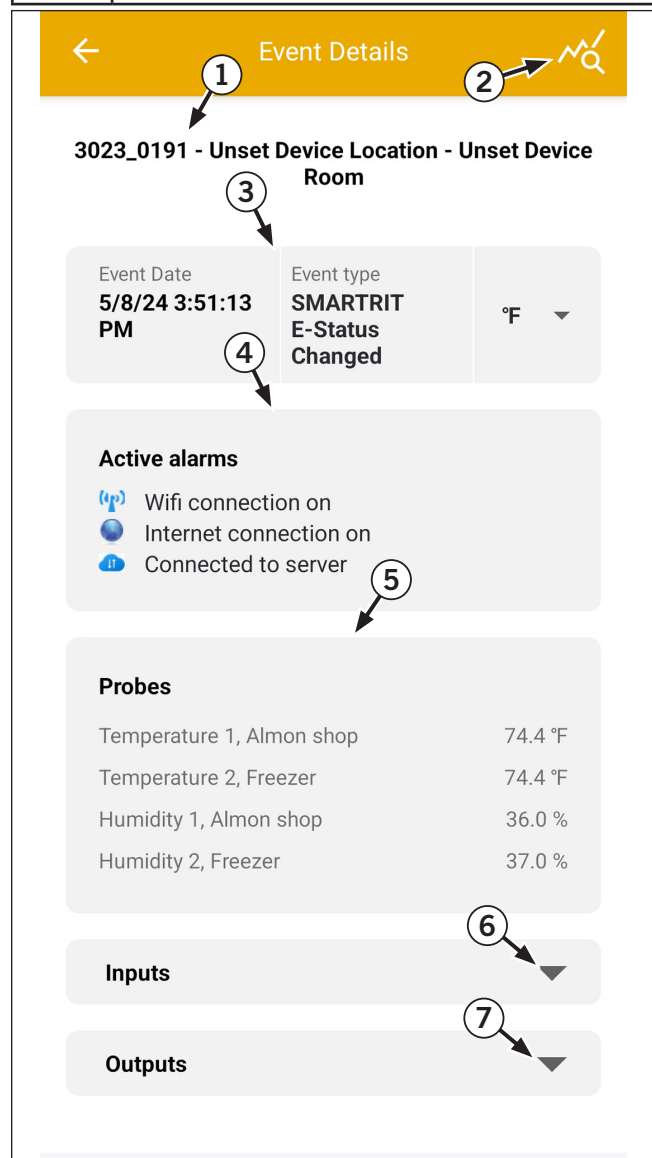
E00094

**Figure 8-12: Event List**

## Event Detail

Event detail shows specific information regarding an event.

Calout	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



E00097

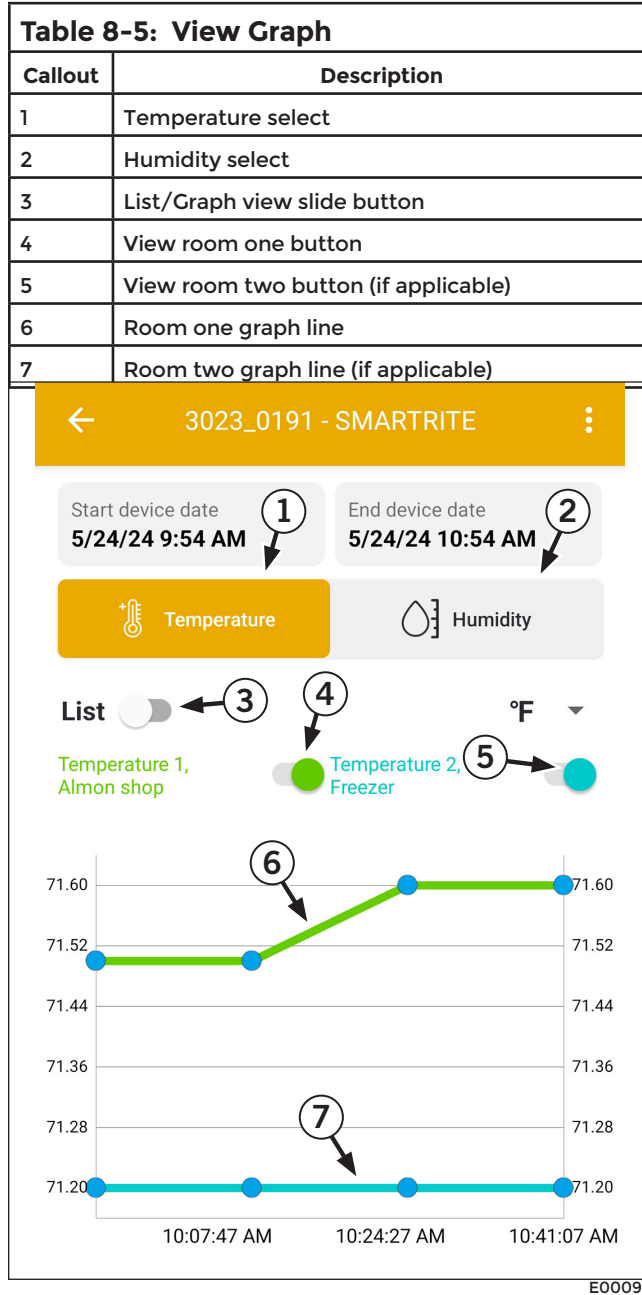
**Figure 8-13: Event Detail**

## 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" on page 65.

1. Select the list slide button (3) from the event list. For more information, see "Event List" on page 63.



**Figure 8-14: View Graph**

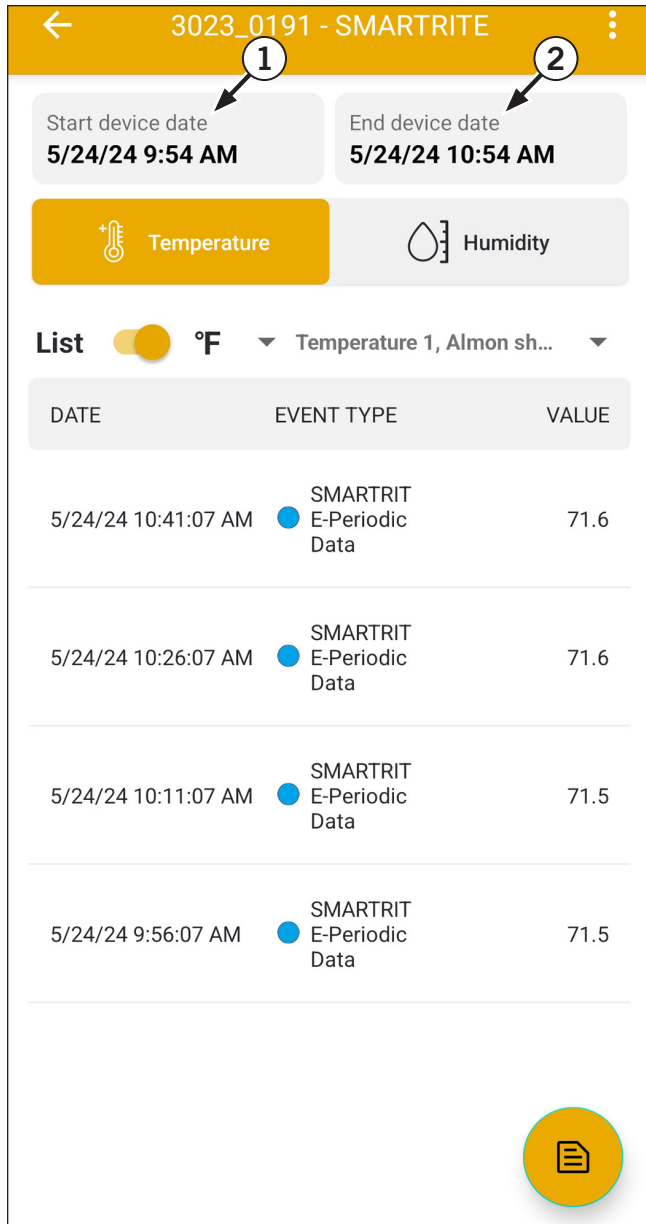
## Event History

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

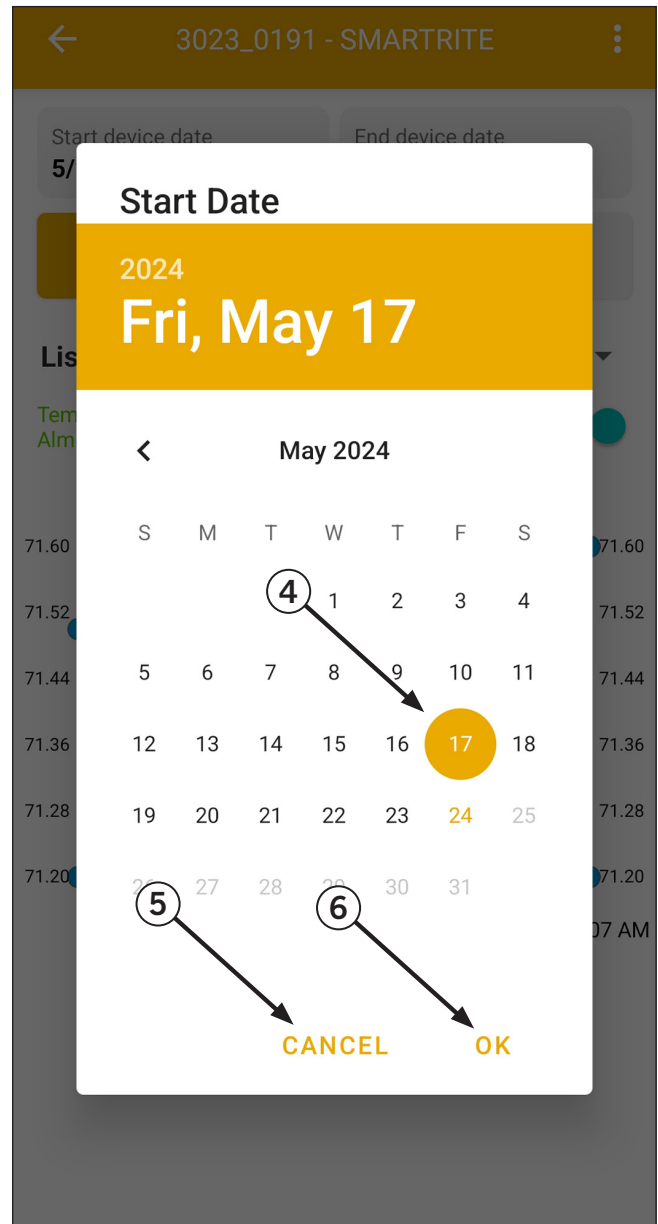
### NOTICE

The maximum period for accessing and displaying the history from the app can not 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>.

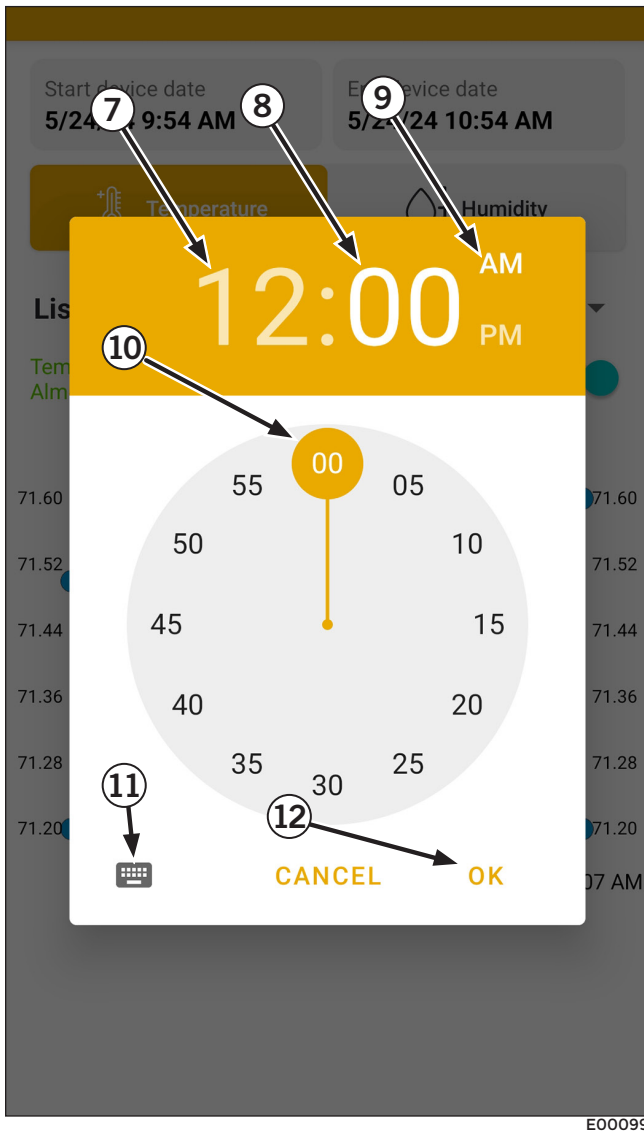
1. Select the Start device date (1).
2. Select the date (4) from the calendar and press OK (6). To change the date or cancel, press CANCEL (5).
3. Rotate the clock hand (10) to select the hour. The hour will be displayed in the hour field (7) and press OK (12). Optionally the time can be manually entered 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.



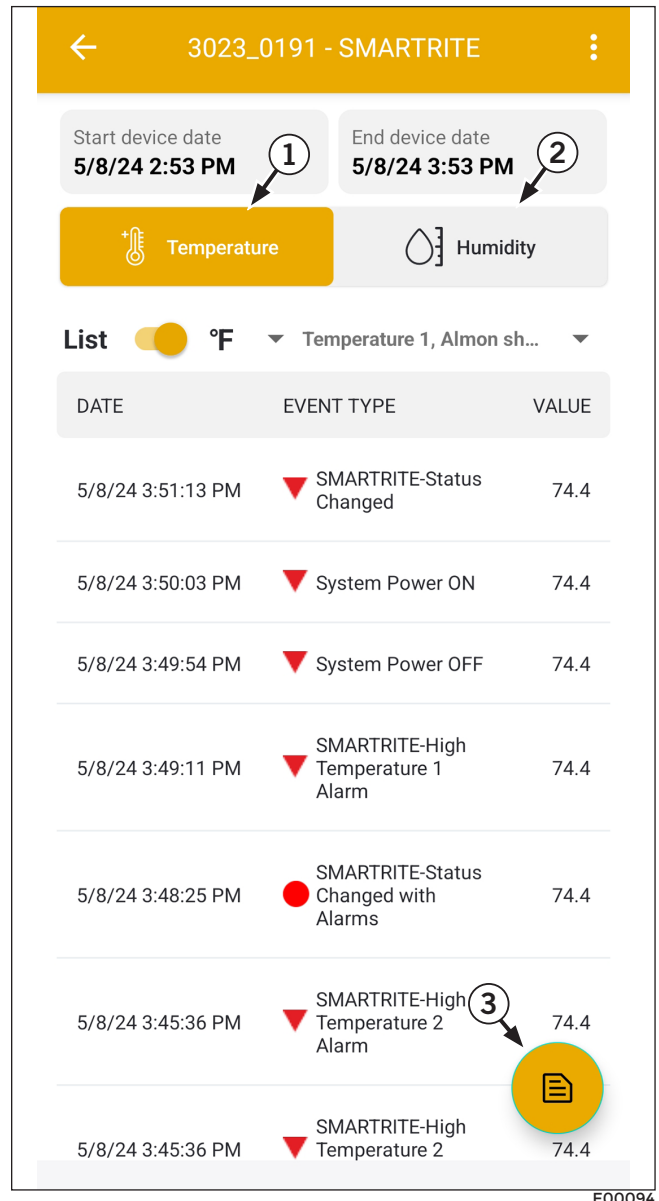
**Figure 8-15: Event History**



**Figure 8-16: Enter Date**



**Figure 8-17: Enter Time**



**Figure 8-18: Export to CSV File**

## 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 65.
2. Select Temperature (1) or Humidity (2) for the type of data to be downloaded.
3. Select the file button (3) to begin download.

## 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.

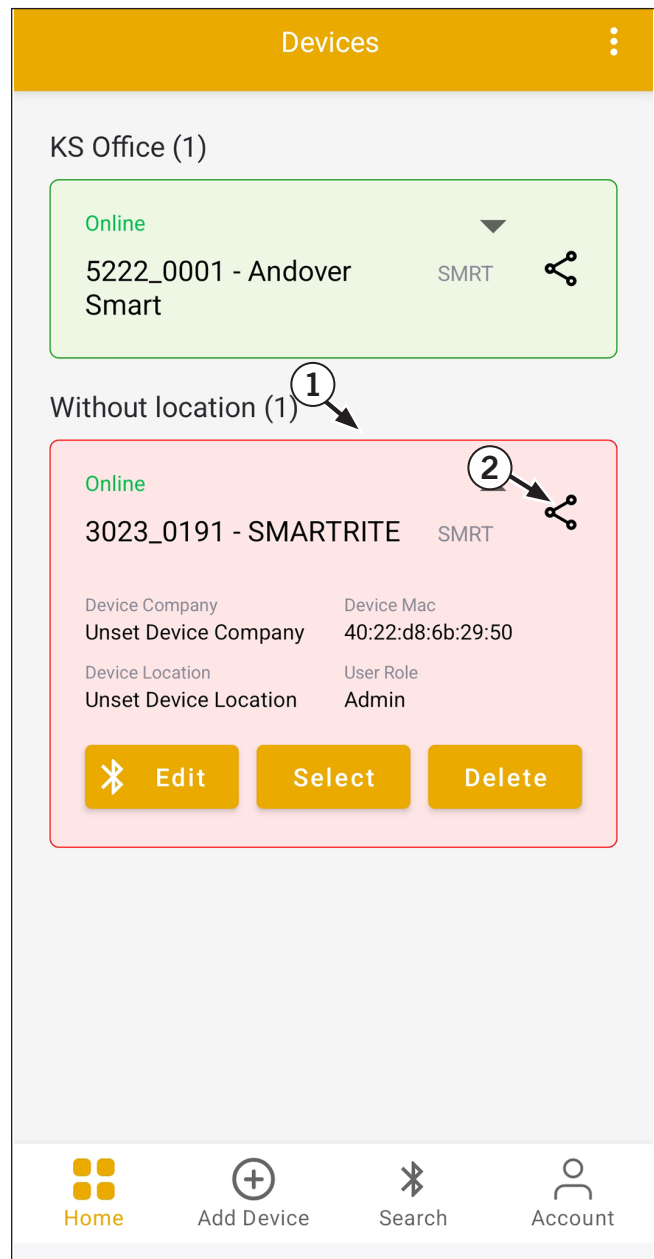
### Power User

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

### User

- Only has the ability to monitor the device.

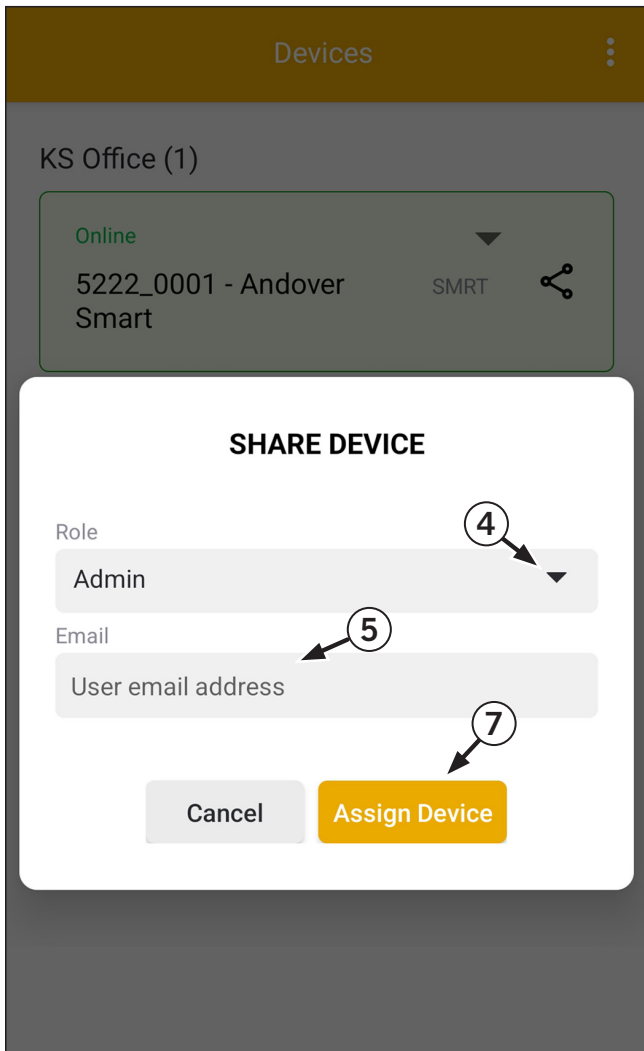
1. Select the device (1) to share.
2. Select the share icon (2).



E00107

**Figure 8-19: Select Share Device**

3. Select the Role drop-down (4) and choose a shared user privilege level. See "Figure 8-24: Change Roll Type" on page 70.
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.



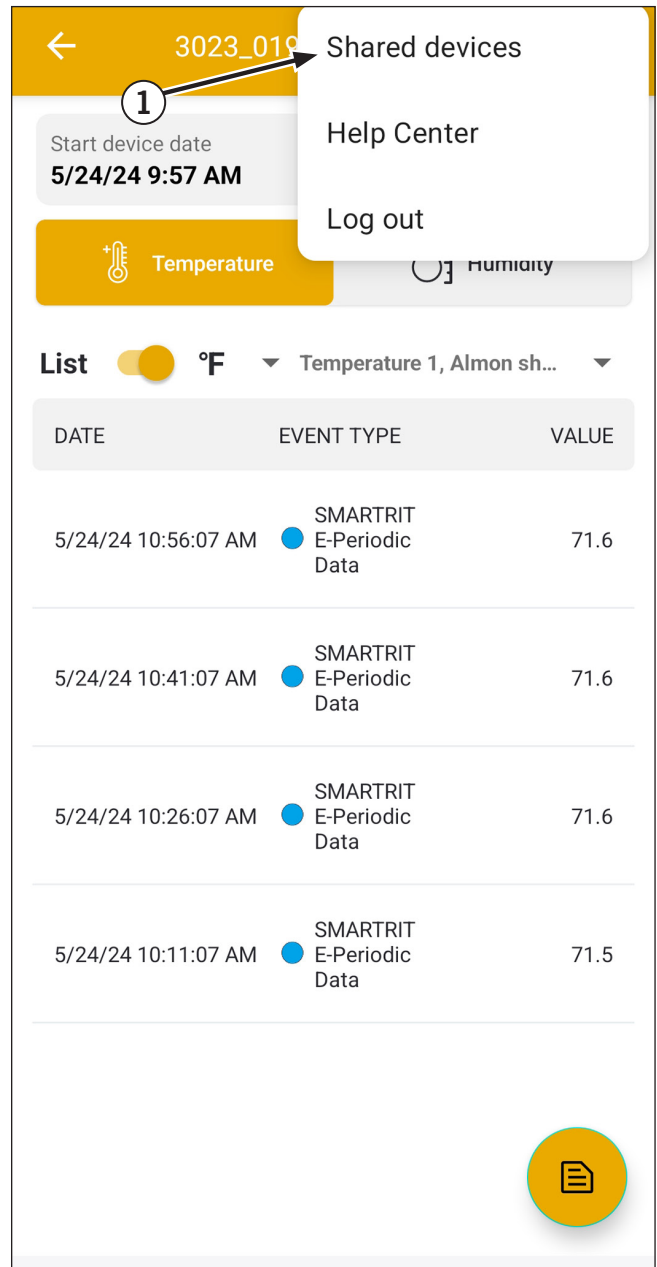
E00104

**Figure 8-20: Share Device with User**

## View Shared Devices

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

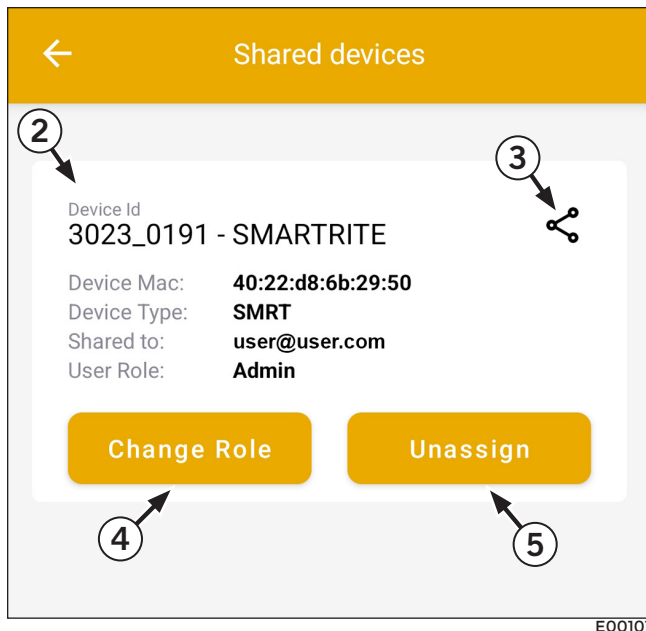
1. Select the three dot icon on the top right of the event list.
2. Select Shared devices (1).



E00100

**Figure 8-21: Shared Devices**

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 Roll"](#) on page 70.
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 68.

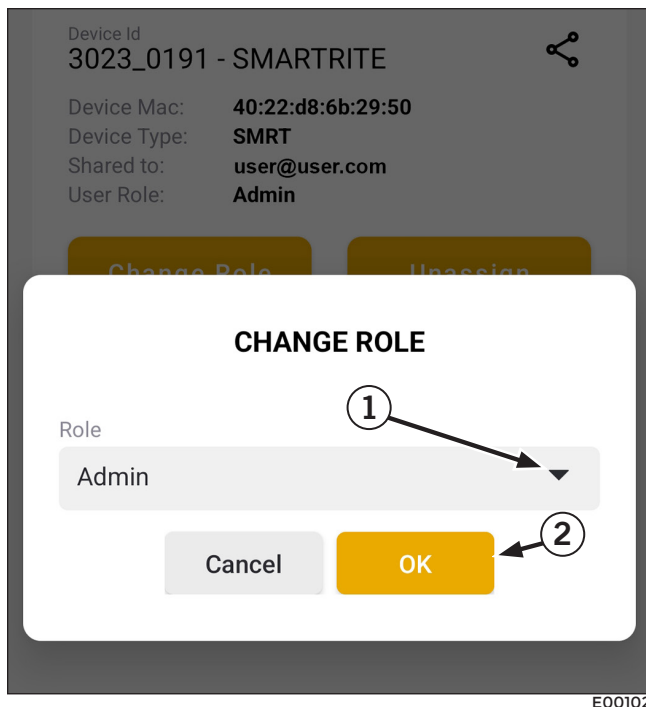


E00101

**Figure 8-22: Device Information**

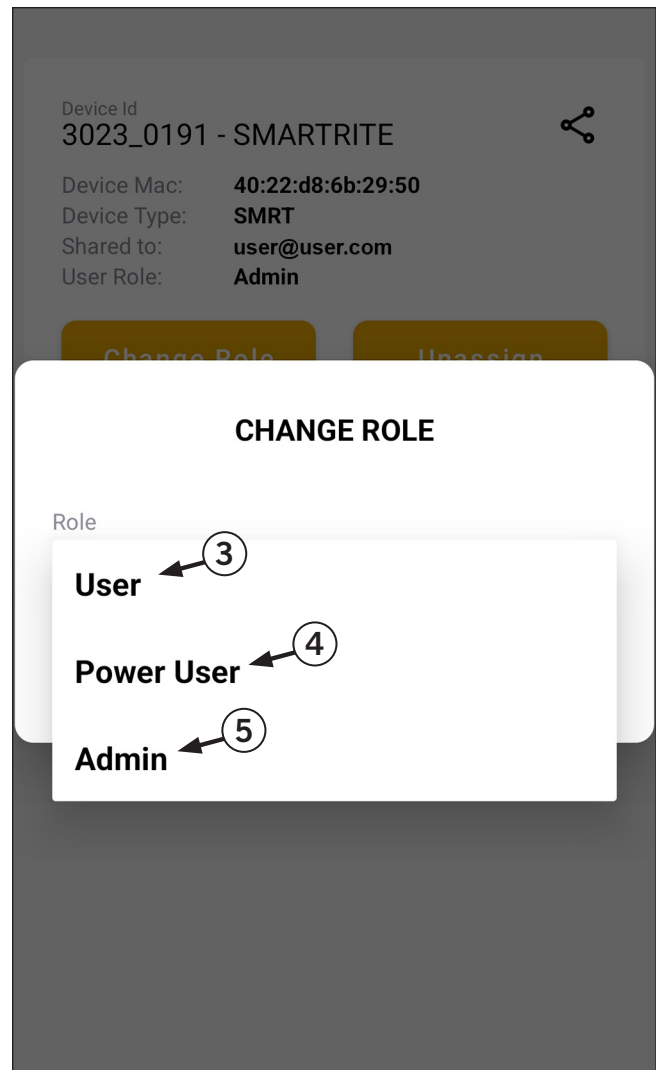
## Change Roll

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 68.
2. Press OK (2) to save roll.



E00102

**Figure 8-23: Change Roll**



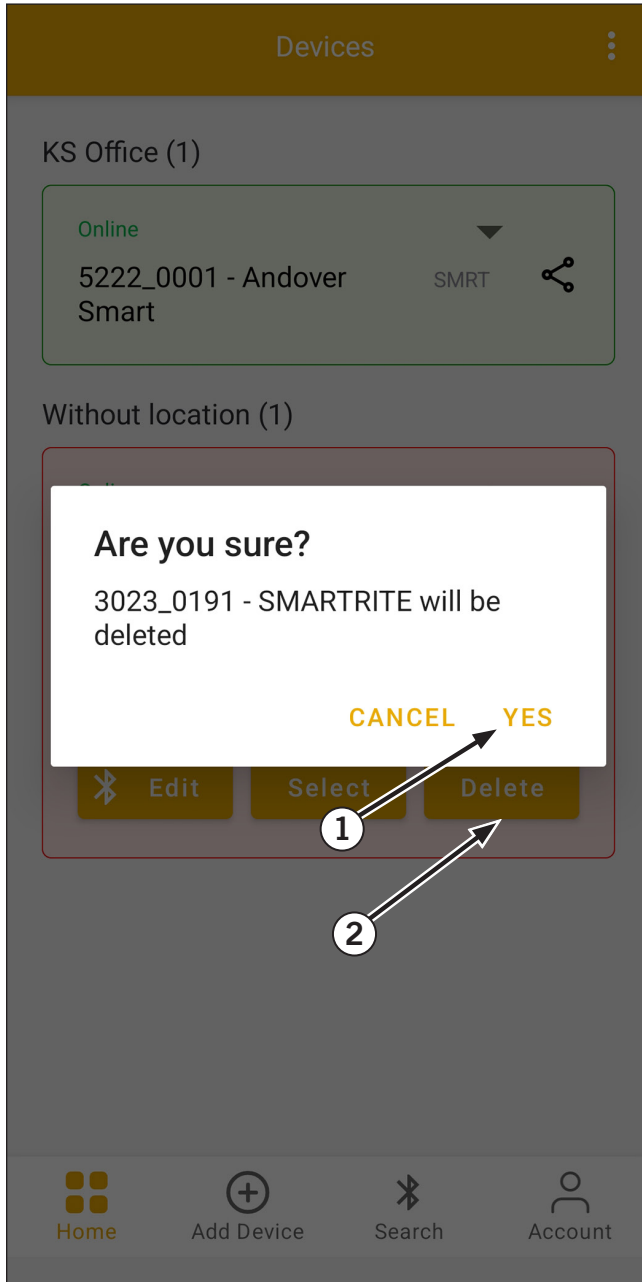
E00103

**Figure 8-24: Change Roll Type**

## 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).



E00105

**Figure 8-25: Delete Device**

### 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 50.
2. Inspect placement of the temperature/humidity sensor. The sensor can not 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

1. Confirm motion switch is enabled. For more information, see "[Motion Detector](#)" on page 48.
2. Inspect placement of the motion switch. The switch can not be blocked or obstructed for correct operation.
3. Inspect wire from switch to power module enclosure. Replace or repair wire as necessary.
4. Remove cover on power module enclosure and confirm jumper wire is removed on connections that have a motion switch connected.
5. 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 8-1: Main Operation Screen](#)" on page 58.
3. Perform a network reconnect on the system display. For more information, see "[Wi-Fi Enable](#)" on page 50.
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 45.
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.

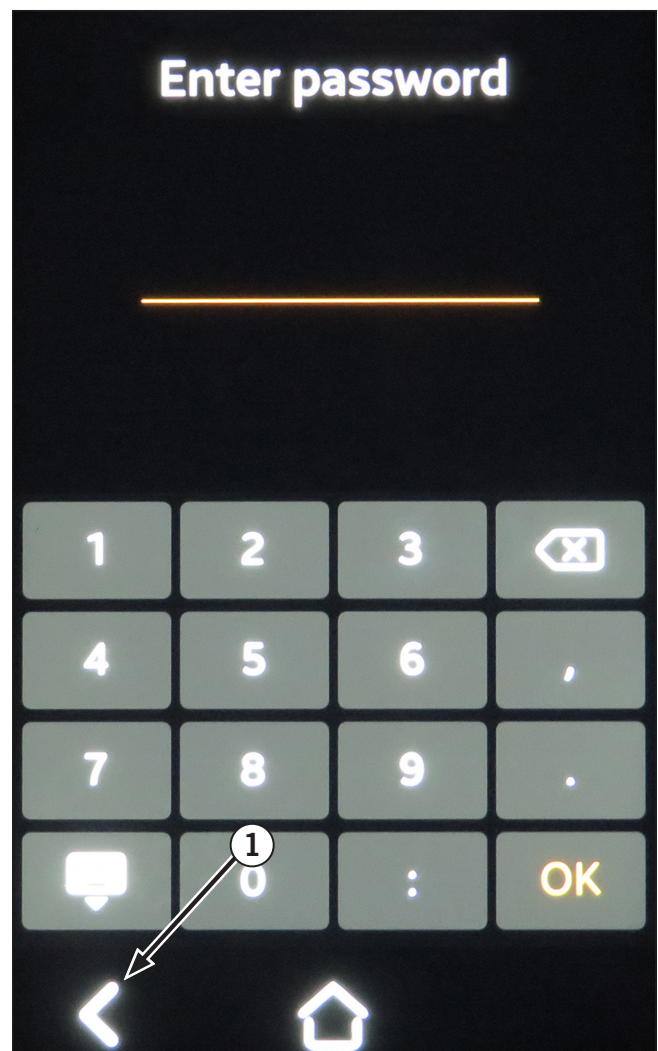
## Lights with No Function

1. Confirm that the light control feature is enabled. For more information, see "[Number of Probes](#)" on page 50.
2. Select the lights on from the display and indicator shows that 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 9-1: Enter Password**

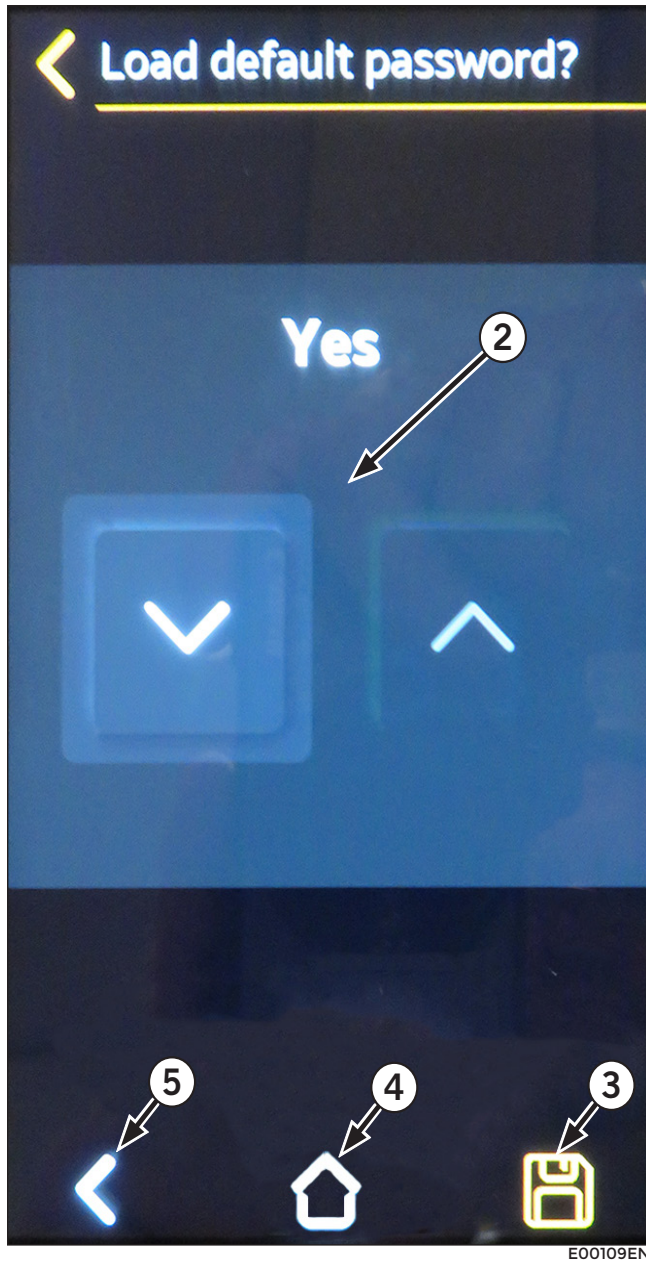


Figure 9-2: Load Default Password

Table 9-1: 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.

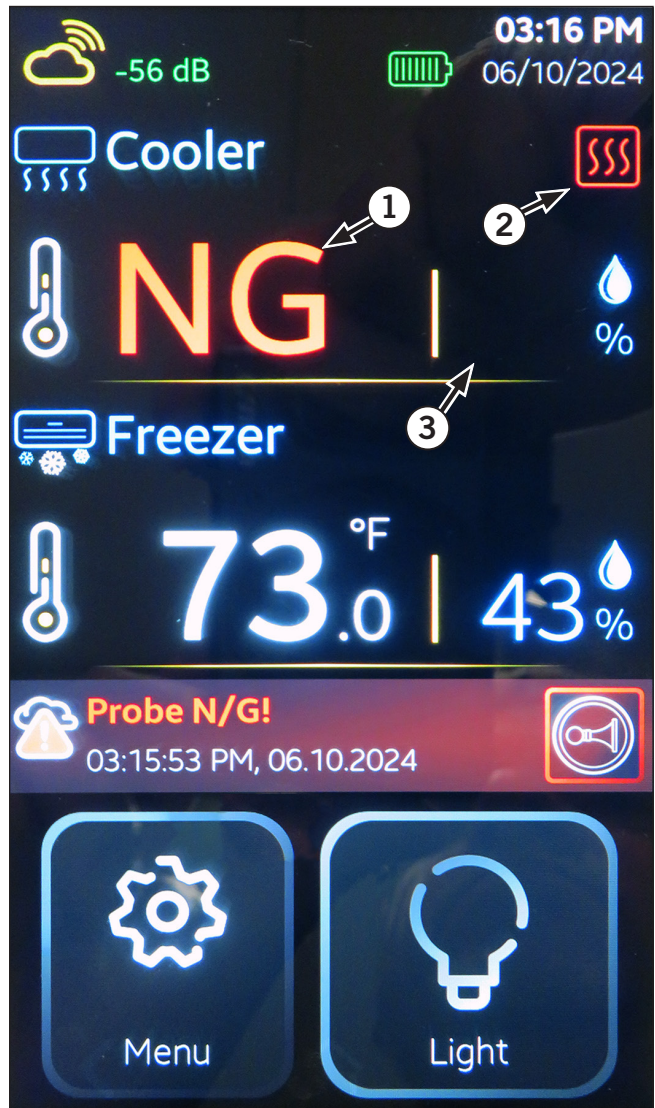


Figure 9-3: Error Code