

Honeywell

TR100 Wall Module



User Guide

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INTRODUCTION TO TR100

About TR100 Wall Modules

The Honeywell TR100 Wall Module is an advanced, highly configurable device that provides building automation connectivity well-suited for commercial building applications. TR100 can replace existing Honeywell wall modules using the tools familiar to installers. The Honeywell TR100 wall modules utilize Sylk™ communication, which is polarity insensitive and uses two wires. This device also supports BACnet™ MS/TP and Modbus™ RTU communications via RS-485 bus, which is prevalent in HVAC building control systems.

Additionally, these protocols Modbus™ RTU, BACnet™ MS/TP, and Sylk™ enable future firmware updates and enhance functionality as they are available in the market. The Honeywell TR100 Wall Module works with Honeywell and third-party controllers and is not based on proprietary protocols.

Features

The Honeywell TR100 Wall Module features an attractive capacitive touchscreen interface and allows for easy configuration, requiring minimal installer training. The module also features embedded help screens that make setup intuitive, reducing reliance on technical manuals for complex system setups.

The Honeywell TR100 Wall Module can monitor one to three of any of the below mentioned parameters:

- Temperature Setpoint
- Room Temperature
- Room Humidity
- CO2 (TR42 emulation, TR100 Modbus/BACnet)
- Outdoor Humidity
- Outdoor Temperature

Intended audience and assumed knowledge

This User Guide provides information about the Getting Started and Overview details, Configuration details, and Operations of the TR100 wall module to the system integrator, technicians, and end-users. All the electrical engineers and technicians working with the product must have basic training on HVAC Sensors, Smart sensors, and Room Controllers and their application.

Reference Documents

- TR100 Wall Module Data sheet - 31-00671
- TR100 Wall Module Installation Instructions - 31-00673
- TR100 Wall Module Pocket Guide - 31-00675

Conventions

The Honeywell TR100 wall module has a 2.4-inch, 320 x 240-pixel LCD screen for easy navigation and setup. You can select various options available on the screen by lightly tapping the option on the screen or scrolling through the list.

The conventions for hand gestures used to navigate through the screens on the TR100 wall module display are:

- **Tap:** Quickly touch and release to select a control or item; equivalent to a mouse-click.
- **Swipe:** Quickly slide one or more fingers across the screen to reveal controls or to scroll through lists or groups of items; equivalent to scroll.

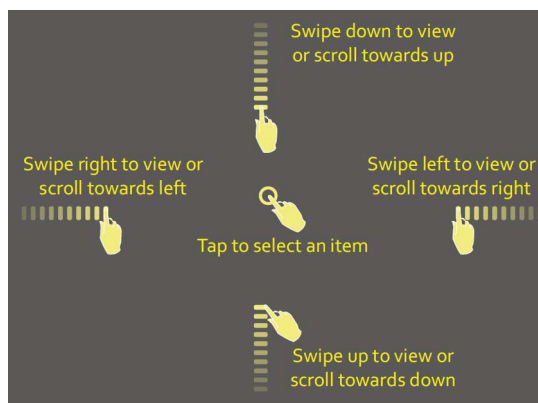


Fig 1. Hand gesture convention

- A green indicator appears before the valid selection.
- If the option selected or the text entered is valid, the option to move to the subsequent screen turns blue. Tapping the option in blue will toggle to next screen.

Security Requirement

System Environmental Considerations

An Internet firewall is required to isolate the wall module. Unprotected internet connections can expose and damage the wall module system and facility components to cyber-attacks from third parties. This may cause the wall module to malfunction and can also be misused for illegal purposes for which the operator may then be held liable.

Deployments and Maintenance Considerations

- Always keep the local server up to date on the latest security patches via a regular system update. This applies not only to workstations or servers running on Windows, Linux, Mac, or any devices that run as part of information infrastructure or operations workstation.
- Always keep the wall module firmware with the latest released firmware to have maximum protection by built-in security features.
- Do not use default passwords for any devices (if exists). This includes, but not limited, to all server workstations, storage servers, firewall devices, routers, and mobile devices.
- Do not use weak passwords for server administrators or operators. Different user roles (for example administrator, user, guest, etc.) shall have a different password, and the user should not share common passwords.
- In case of wireless communication, malicious wireless devices can easily scan the wireless channel and inject malicious packets or mass data flow to perform Denial-of-Service attacks. Honeywell has taken steps to prevent the TR100 wall module device from being injected, but the mass data flow will result in the loss of wireless communication bandwidth within the whole system. A regular check of the communication failure rate or response rate of the wall module is helpful to discover, and isolate devices being attacked and stop the physical attacks in the daily operation.

Network Communication Notice

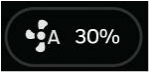
- To keep maximum integration compatibility with third-party devices and Fast-pack communications are un-encrypted as open protocol. Improper security protection may lead to data leakage, spoofing, and/or tampered by malicious devices and denial-of service attacks.
- To keep maximum integration compatibility with legacy devices, in-room wired devices are less secure from data confidentiality and authentication thus not recommended for a new design. It is always highly recommended to use deep mesh wireless network communication to gain maximum protection and the latest updates.

- In case of Denial-of-Service attacks, all communication channels will inevitably have a loss of bandwidth due to malicious data flow.
- Connected devices may contain legacy technology, which is less secure under modern cyber-security attacks. Honeywell strongly recommends using a secured deep mesh wireless network communication. In case of legacy technology, the user needs to be aware of the risk of being tampered with or attacked. To reduce the attack surface, the user is advised to physically secure the wired communication signals or provide necessary shield on wires, or place necessary access control on accessing such communication wires.

General Home Screen Icons

Table 1. Home Screen Icons

Icon	Description
Override icons	
	• Overridden Occupied • Overridden Standby • Overridden Unoccupied • Overridden Frost
Occupancy Status	
	• Occupied • Standby • Unoccupied • Frost
Fan modes	
	Fan speed low

Icon	Description
	Fan speed medium
	Fan speed high
	Fan off
	Fan percentage
	Fan auto mode
	Fan auto mode off
	Fan auto mode low
	Fan auto mode medium
	Fan auto mode high
	Fan auto mode percentage

Initial Setup of TR42 Emulation

Follow these steps for the initial setup of TR42 emulation:

- Step 1. Connect Sylk™ wiring to the controller and Power **ON**. The Honeywell logo appears, followed by **Welcome to TR100**.

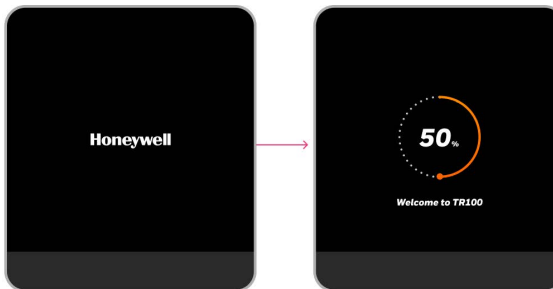


Fig 2. Initial Setup

- Step 2. TR100 will try connecting to the controller alternatively with TR42 device type with default address 1.

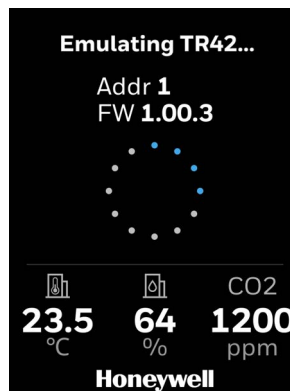


Fig 3. Automatic Connection

Step 3. After automatic connection, the below mentioned scenarios will happen:

(i) If the TR42E application address is 1, it will go to the home screen directly after auto connecting.

(ii) If the TR42E application address is not 1, it will switch between 'Emulating TR75 address 1' and 'Emulating TR42 address 1'.

(iii) Long press the Honeywell logo for 5 sec in auto connecting screen, it will navigate to Device Type Screen. Select TR42 Emulation as shown below.

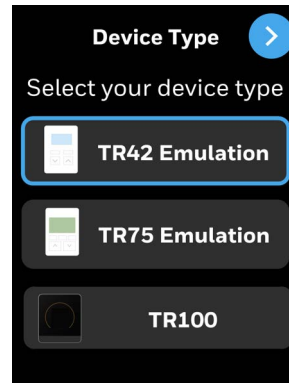


Fig 4. Device Type Screen

Step 4. Enter Sylk address and click > button.

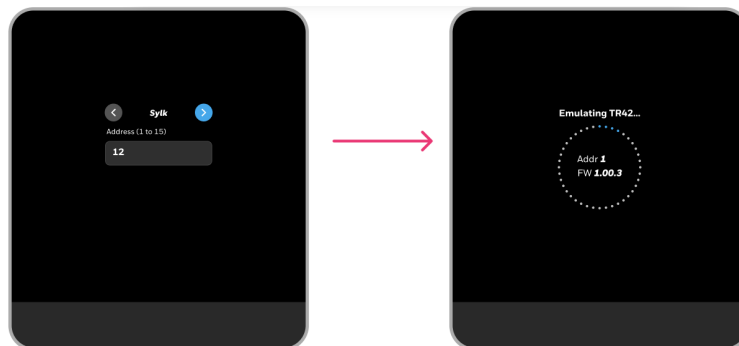


Fig 5. Input address

Step 5. If the initial setup is successful, Home Screen will appear.

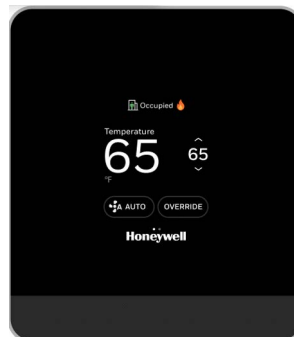


Fig 6. Initial setup successful

- Step 6. If the initial setup is fails, a pop up appears saying Communication Failure.
- The failure could be due to the following reasons:
- (1) Controller application has not been loaded.
 - (2) Incorrect Sylk address assigned to the wall module.
 - (3) Controller application is not configured for this wall module type.
- The commissioning engineer can press the Honeywell Logo for 5 seconds to access the device type selection screen.



Fig 7. Communication failure

Note: The Communication Failure screen appears when the wall module fails to load target Sylk application within 2.5 minutes.

Change Device Type (TR42 Emulation)

The following steps describe how to change the device type from TR42E to other type:

- Step 1. On the middle home screen, long press Honeywell logo, it will navigate to **Passcode** screen, if password protection is enabled.
- Step 2. Enter the required passcode, it will navigate to the **Contractor Mode**.

Note: The options displayed depend on the Sylk configuration on the controller side.

Step 3. Select **Reset to Factory** option in the contractor mode.

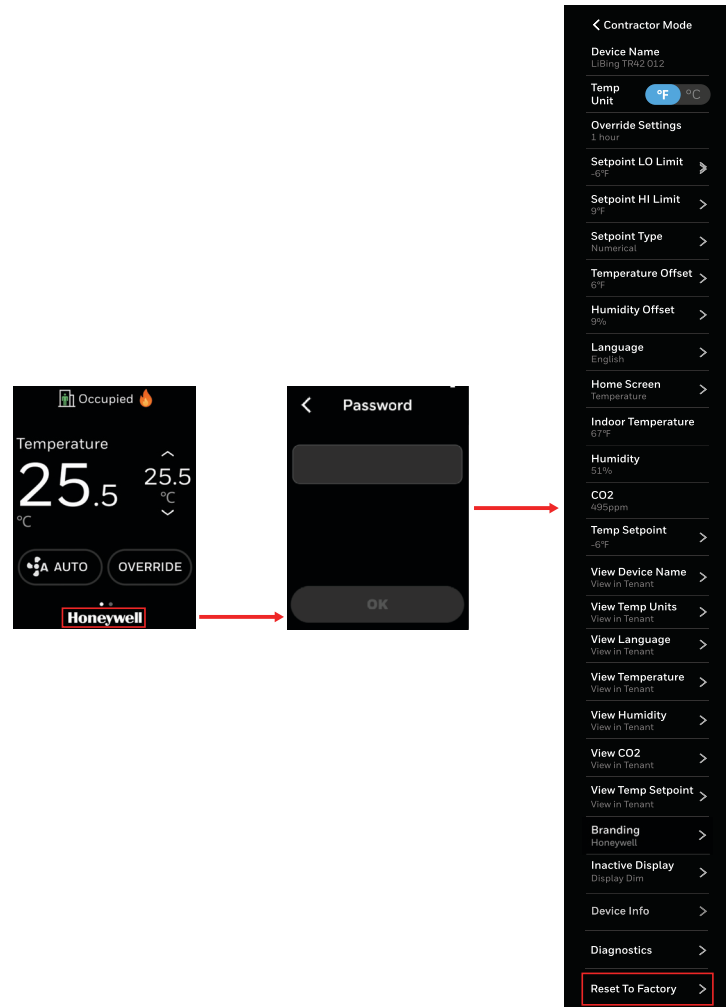


Fig 8. Reset to Factory

Step 4. Click the tick button to confirm to reset the device to factory defaults.

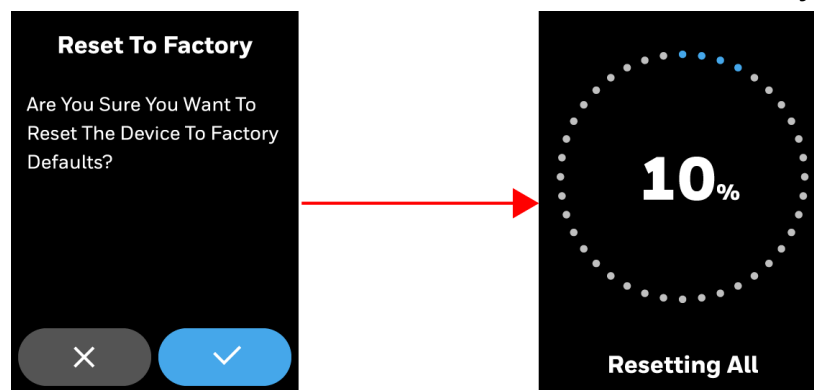


Fig 9. Reset process

Once the device is reset, the user can change the device type through the initial setup process.

Initial Setup of TR75 Emulation

Follow these steps for the initial setup of TR75 emulation:

- Step 1. Connect Sylk™ wiring to the controller and Power **ON**. The Honeywell logo appears, followed by **Welcome to TR100**.

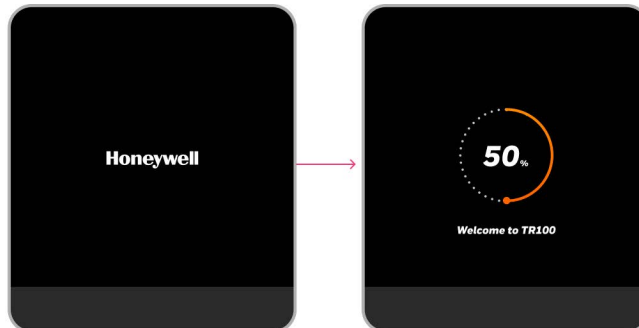


Fig 10. Initial Setup

- Step 2. TR100 will try connecting to the controller alternatively with TR75 device type with default address 1.

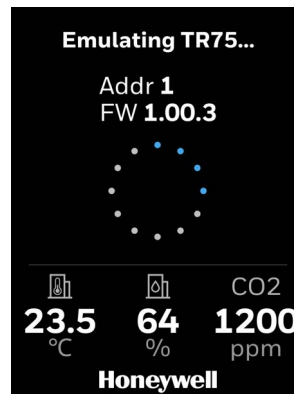


Fig 11. Automatic Connection

- Step 3. After automatic connection, the below mentioned scenarios will happen:
- (i) If the TR75E application address is 1, it will go to the home screen directly after auto connecting.
 - (ii) If the TR75E application address is not 1, it will switch between 'Emulating TR75 address 1' and 'Emulating TR42 address 1'.
 - (iii) Long press the Honeywell logo for 5 sec in auto connecting screen, it will go to Device Type Screen as shown below. Select **TR75 Emulation**.

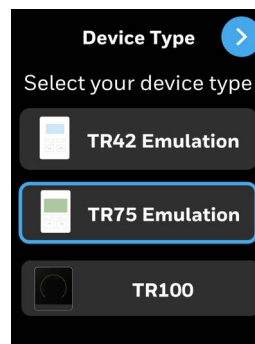


Fig 12. Device Type Screen

Step 4. Enter Sylk address and click > button.

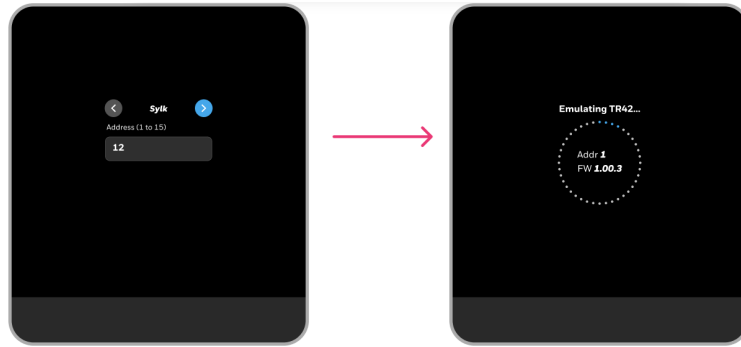


Fig 13. Input address

Step 5. If the initial setup is successful, Home Screen will appear.

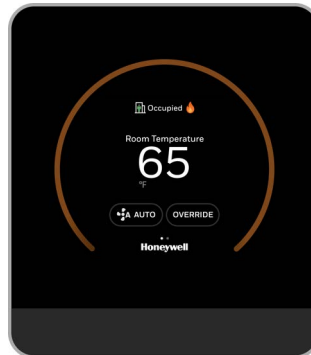


Fig 14. Initial setup successful

Step 6. If the initial setup fails, a pop up appears saying Communication Failure.

The failure could be due to the following reasons:

- (1) Controller application has not been loaded.
 - (2) Incorrect Sylk address assigned to the wall module.
 - (3) Controller application is not configured for this wall module type.
- The commissioning engineer can press the Honeywell Logo for 5 seconds to access the device type selection screen.

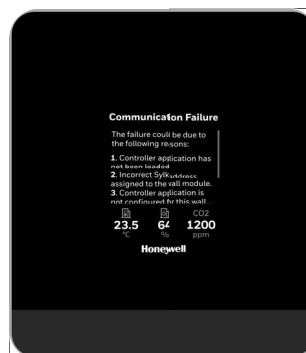


Fig 15. Communication failure

Note: The Communication Failure screen appears when the wall module fails to load target Sylk application within 2.5 minutes.

Change Device Type (TR75 Emulation)

The following steps describe how to change the device type from TR75E to other type:

- Step 1. On the middle home screen, long press Honeywell Logo, it will navigate to **Passcode** screen, if password protection is enabled.
- Step 2. Enter the required passcode, it will navigate to the **Contractor Mode**.
- Step 3. Select **Reset to Factory** option in the contractor mode.

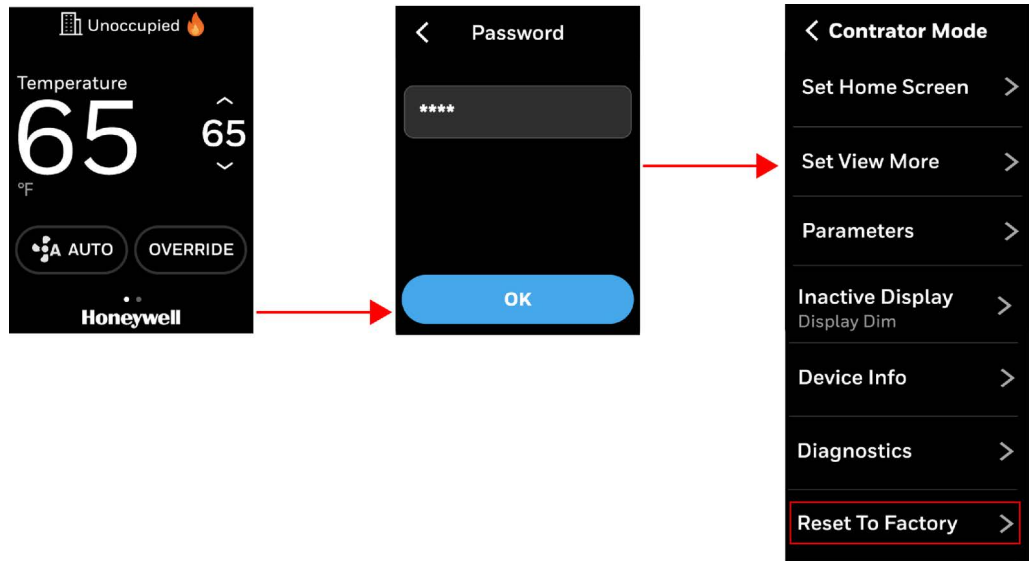


Fig 16. Reset to Factory

- Step 4. Click the tick button to confirm to reset the device to factory defaults.

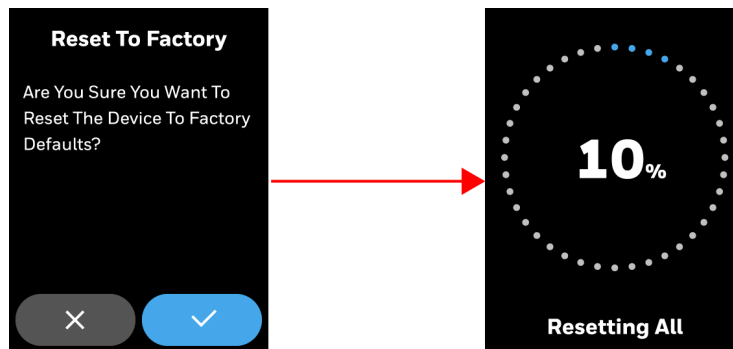


Fig 17. Reset process

Once the device is reset, the user can change the device type through the initial setup process.

Initial Setup of TR100 BACnet/Modbus

Follow these steps for the initial setup of the TR100 BACnet/Modbus:

- Step 1. Boot-up the TR100 Wall Module.
The Honeywell logo screen appears, followed by the “Welcome to TR100” screen.

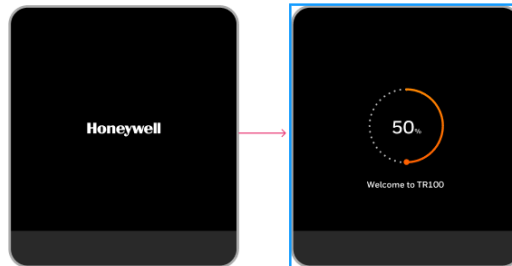


Fig 18. Welcome screen

- Step 2. Once the load reaches 100 %, the initial setup screen is shown as below.

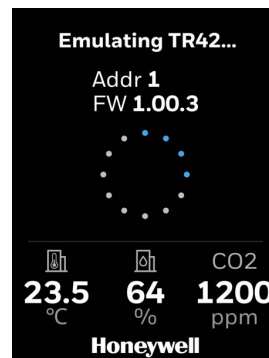


Fig 19. Initial Setup screen

- Step 3. Press and hold the “Honeywell logo” for 5 seconds to access device type selection screen.
- Step 4. Select the device type “TR100” and click > button.

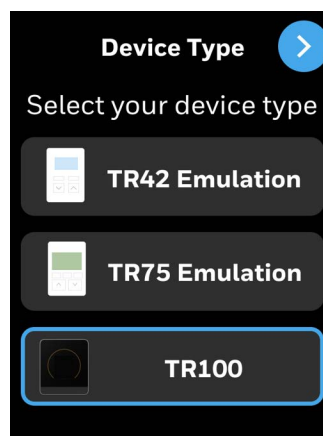


Fig 20. Device type

Choose Network Connection:

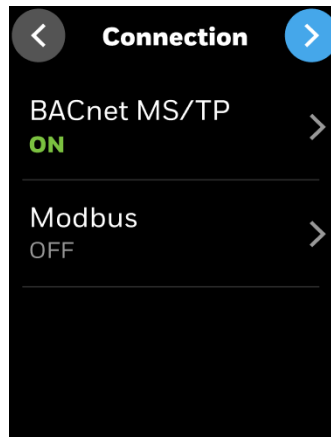


Fig 21. Network Connection

- Step 5. Tap BACnet™ MS/TP or Modbus and enable the MS/TP or Modbus connection.

Modbus Connection:

- Step 6. Enable the Modbus connection on the screen, Modbus settings are shown..

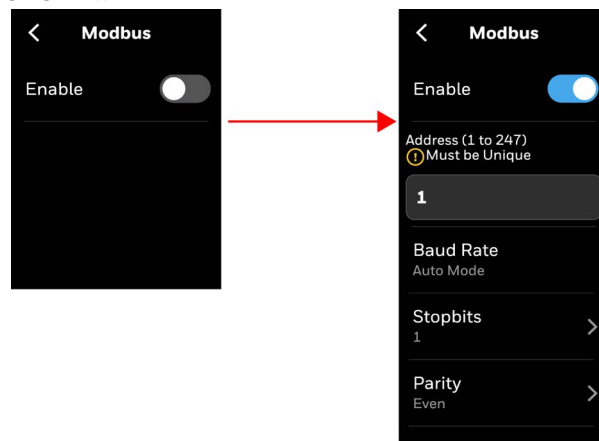


Fig 22. Modbus Network Enable

- Step 7. Give a unique Address between (1 to 247).

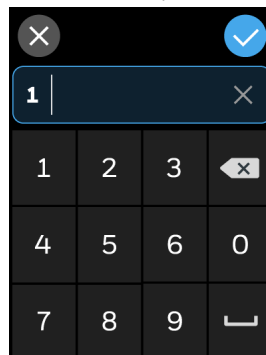


Fig 23. Address

Step 8. Select the required Modbus Baud Rate from the list.

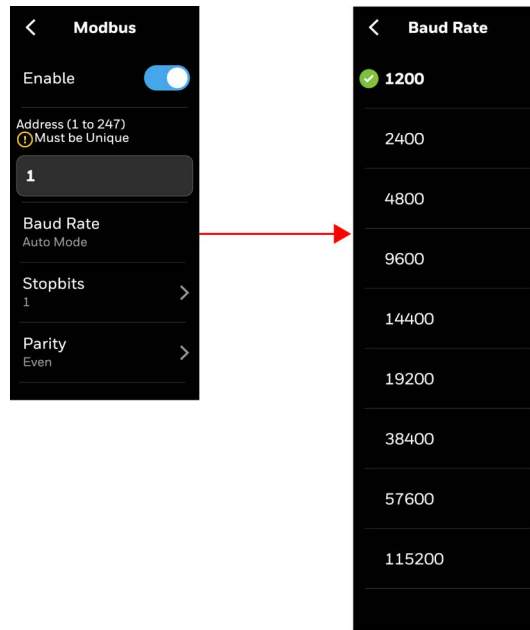


Fig 24. Modbus Baud Rate

Step 9. Select the Stopbits as 1.

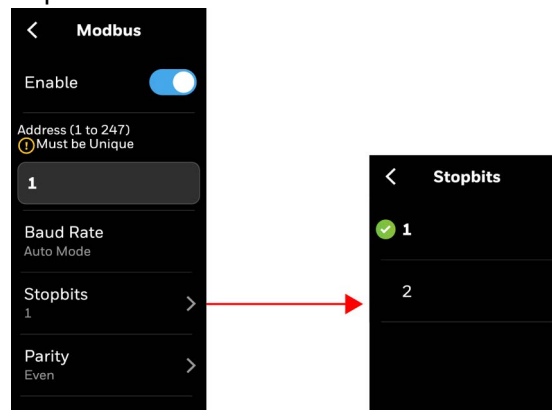


Fig 25. Modbus Stopbits

Step 10. Select the Parity as Even.

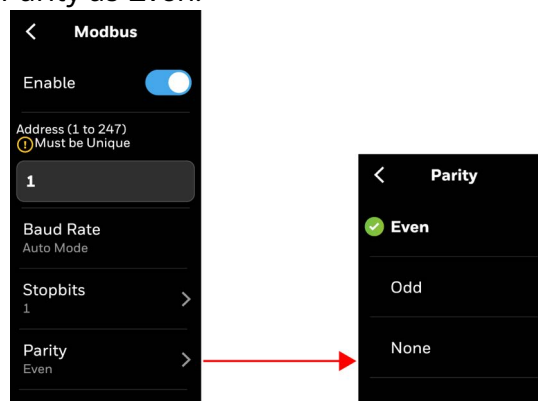


Fig 26. Modbus Parity

Once the above options are selected, the Modbus network connection will be enabled.

Note: For BACnet MS/TP connection, please refer to the steps in the TR100_BACnet Integration Guide_31-00676M-01.

Assigning a name to the device:

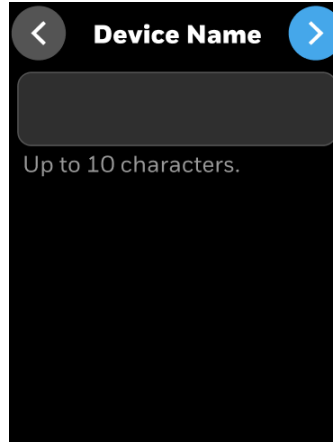


Fig 27. Device name

- Step 11. Tap on the text field. A keyboard will be displayed on the screen to enter the device name.
- Step 12. Enter the device name. Assign a unique name to a device specifying a name to the location where the device is installed. It assists the user to easily identify the device during remote operation of the device.
- Step 13. After entering a valid device name tap the right arrow button. The device name is saved, and the Passcode screen appears.

Setting up the Installer Passcode:

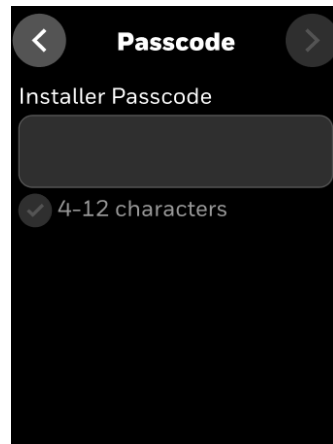


Fig 28. Passcode

- Step 14. Tap on the text field.
A keyboard will popup.

Step 15. Enter a passcode.

Note: The passcode must contain 4 to 12 characters.

Step 16. Tap the right arrow button.

The Congratulation message appears.

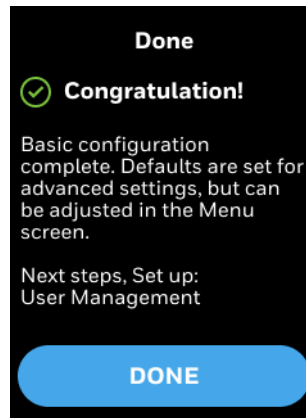


Fig 29. Successful Connection

Step 17. Tap DONE.

The User Management screen appears.

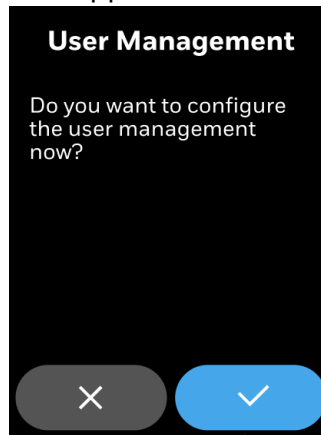


Fig 30. User Management

Step 18. Tap the tick button to configure the desired users.

Step 19. Tap the cross to start using the device.
Wall Module Home screen appears.



Fig 31. Home Screen

Introduction

This section describes the below-mentioned operations the end user can do for the TR42 Emulation:

- View temperature parameter.
- View Humidity parameter.
- View CO2 parameter.
- Swipe Left and Right home screen.
- Change Setpoint temperature (Relative/Absolute).
- Change Fan speed.
- Change Occupancy Mode.
- Brand Configuration

TR42 Emulation Overview

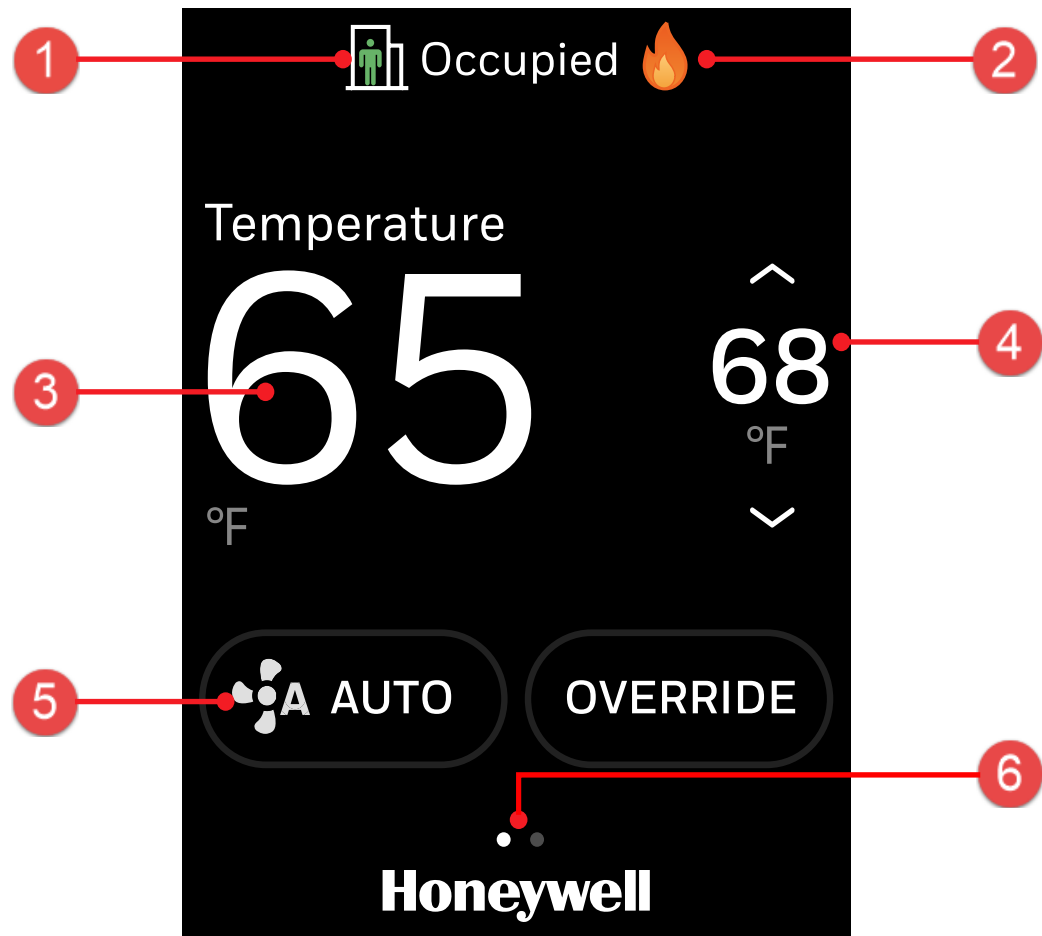
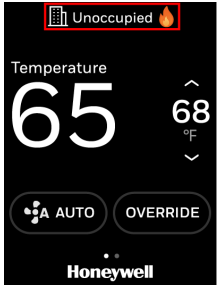
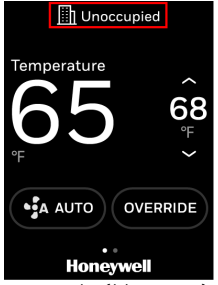
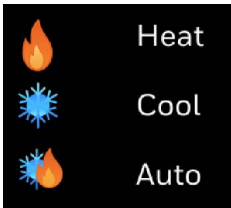


Fig 32. Home screen overview

Table 2. Home screen overview description

Item	Description
1	Occupancy Mode: Indicates the current Occupant status (Occupied, Unoccupied, Standby). Below scenarios describes the modes available in TR42 emulation home screen: Scenario 1: Both for Occupancy Mode (Unoccupied) and Selected System Mode (Heating). 
	Scenario 2: Only Occupancy Mode (Unoccupied). 
	Scenario 3: Only Selected System mode (Heating). 
	Scenario 4: Both Occupancy Mode and System Mode invisible. 

Item	Description
2	System Mode: Orange flame for heat mode, blue snowflake for cool mode. 
3	Indoor Temperature: Displays the current indoor temperature.
4	These are Relative Setpoint or Absolute Setpoint to access setpoint adjustment screen.
5	Fan Speed: Indicates current Fan speed for Fan Coil unit. Tap to change the fan speed.
6	More Options: Swipe right to display more options. 

Home Screen

Home (Left Screen):

When set key parameter is scrolling screen, it will show left screen.

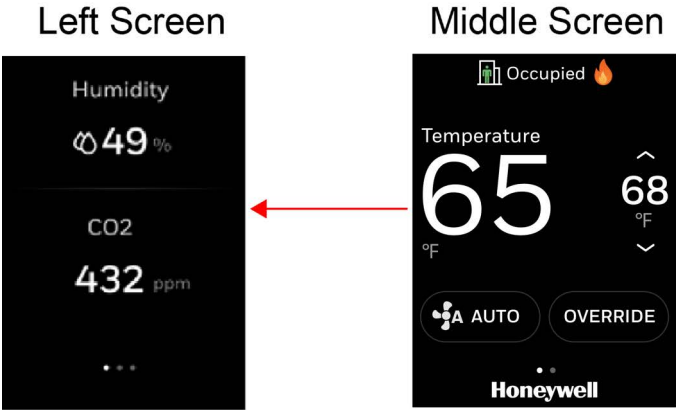


Fig 33. TR42 Emulation Left Screen

Home (Right Screen):

Right screen displays **System Mode**, **Brightness** and **More** options.

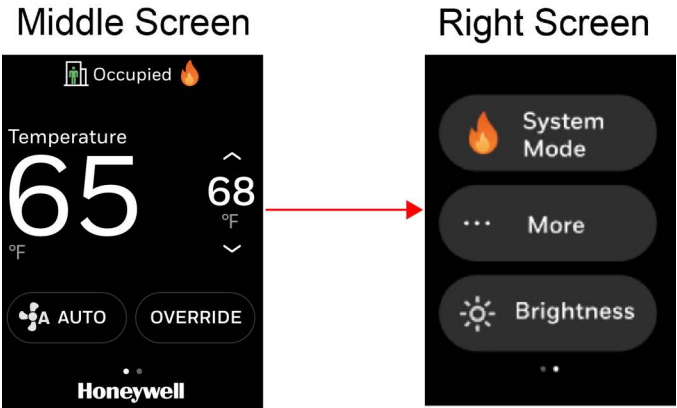


Fig 34. TR42 Emulation Right Screen

Note: The right screen options displayed depend on the Sylk configuration on the controller side.

Home Screen workflow - Change Setpoint, Change Fan Speed and Change Occupancy Mode

Change Relative Setpoint (Degree Fahrenheit)

When the HomeScreen is set to Scrolling Screen & Humidity or CO2 is applicable to the configured Sylk device & they are set to viewable, it will show the left screen.

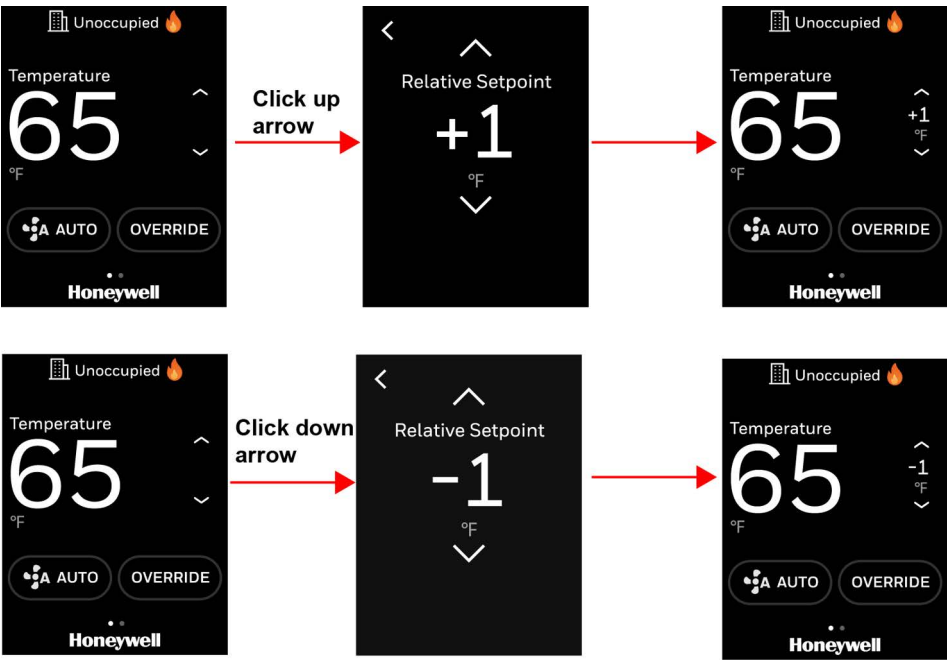


Fig 35. Change Setpoint (Relative Fahrenheit)

Absolute Setpoint (Degree Fahrenheit)

Click on the Up/down arrow setpoint area and set the desired Fahrenheit point.

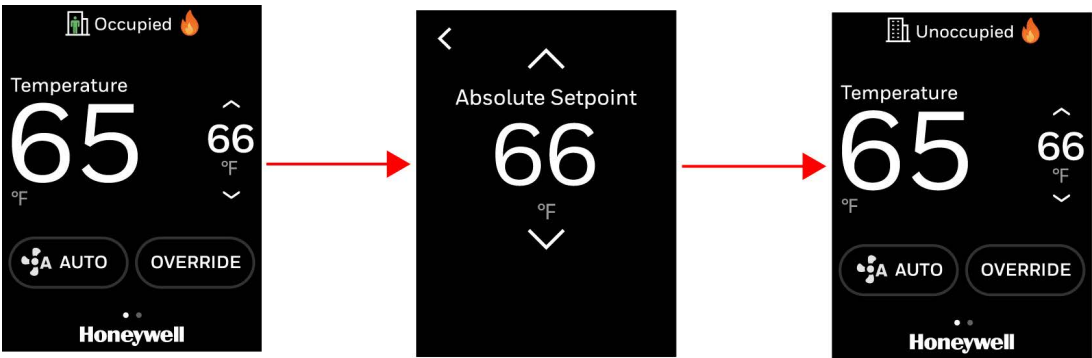


Fig 36. Change Setpoint (Absolute Fahrenheit)

Relative Setpoint (Degree Celsius)

Click on the Up/down arrow setpoint area and set the desired Celsius point.

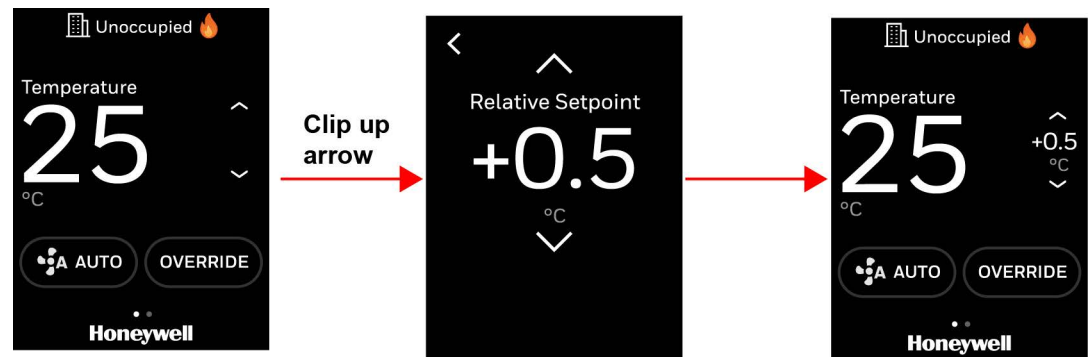


Fig 37. Change Setpoint (Relative Celsius)

Absolute Setpoint (Degree Celsius)

Click on the Up/down arrow setpoint area and set the desired Celsius point.

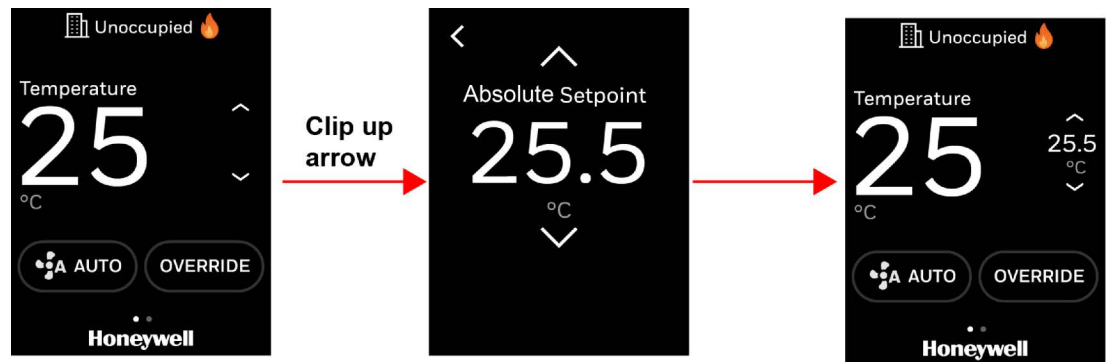


Fig 38. Change Setpoint (Absolute Celsius)

Change Fan speed

User can select the Fan Speed option and change the fan speed type depending on the configuration.

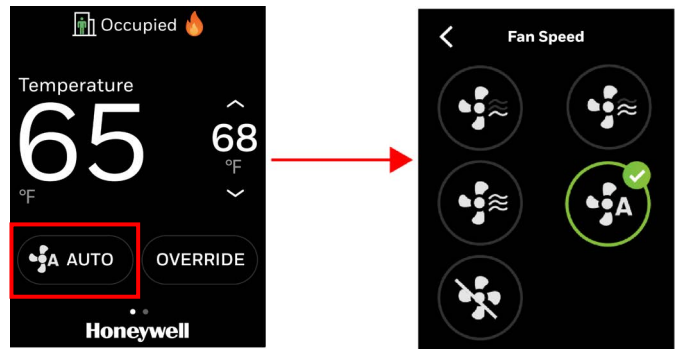


Fig 39. Change Fan speed

Change Occupancy Mode

Press override button in home screen and click tick button . It will override the current Occupancy Mode to Occupied Mode.

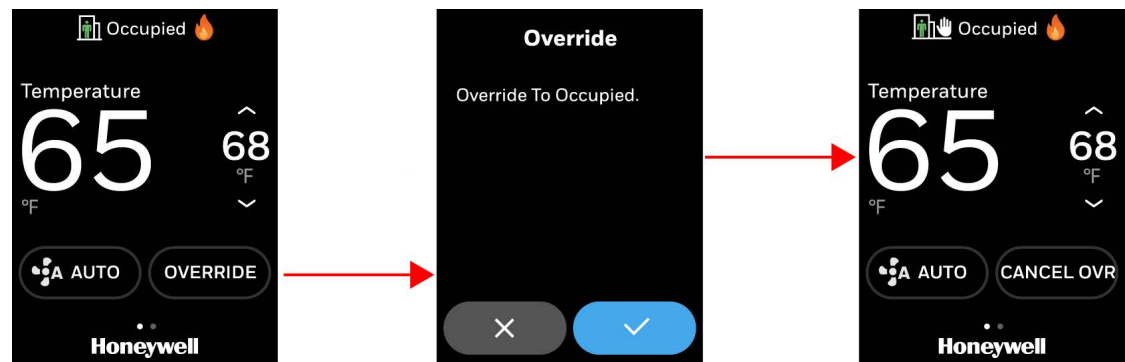


Fig 40. Occupancy Mode

Brand Configuration

The Brand Configuration includes options to select or configure the wall module Branding.

- Step 1. On the Home screen, long press to the Honeywell logo, it will navigate to the **Contractor Mode**.
Select **Branding** from the list.

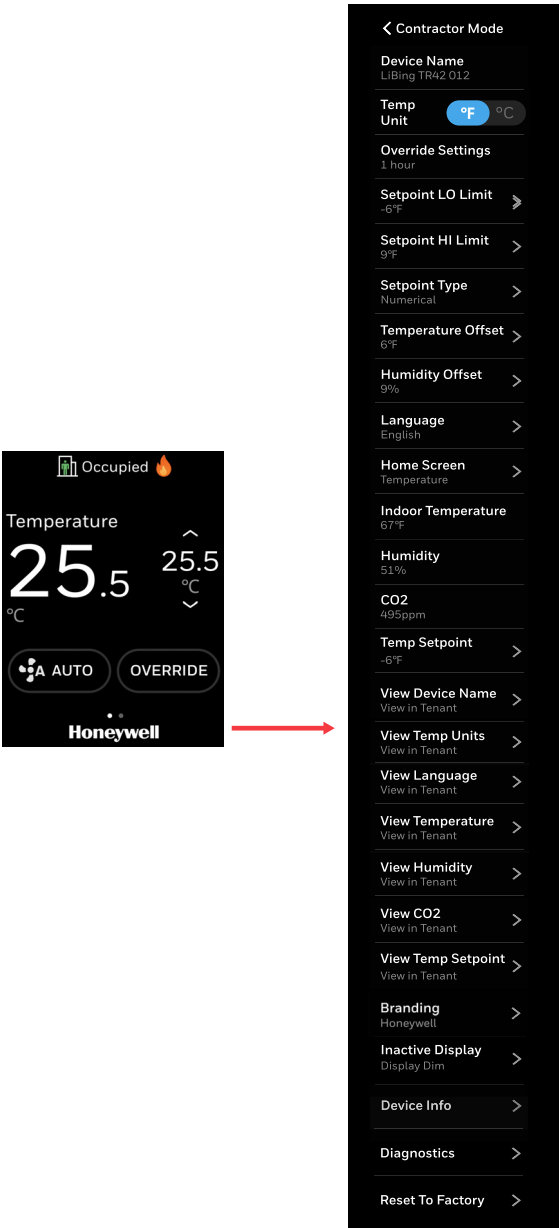


Fig 41. Contractor Mode

- Step 2. The **Branding** screen appears, select the Brand from the list as required. Tap  to return Home screen to view the selected branding.

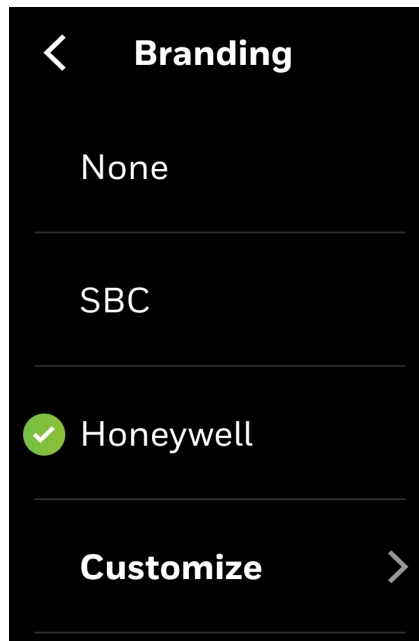


Fig 42. Branding Screen

- Step 3. The branding will appear on the Home screen.



Fig 43. Home Screen

Note: There are more additional options under Brand Configuration are: **“None”**, **“SBC”** and **“Customize”**, the examples are shown below:-

- Step 1. From the Branding list, select **None**.
Tap  to return Home screen.

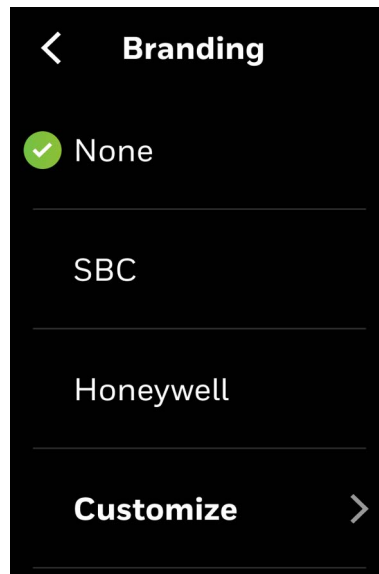


Fig 44. Branding Screen

- Step 2. The Home screen will show no branding.



Fig 45. Home Screen

For SBC branding:

- Step 1. From the Branding list, select **SBC**.
Tap  to return Home screen.

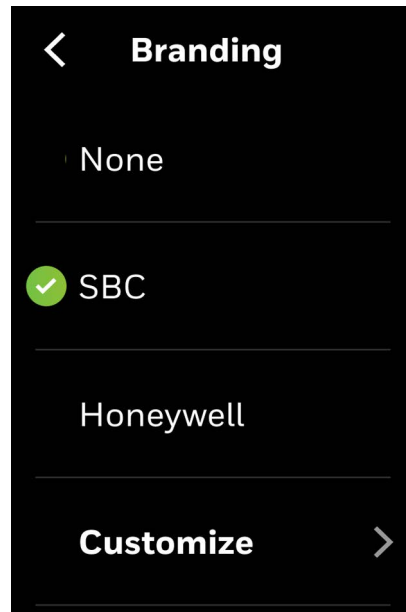


Fig 46. Branding Screen

- Step 2. The **SBC** branding appears on Home screen.



Fig 47. Home Screen

The “**Customize**” includes the option to modify the branding as desired.

Step 1. From the Branding list, select “**Customize**” to modify the branding.

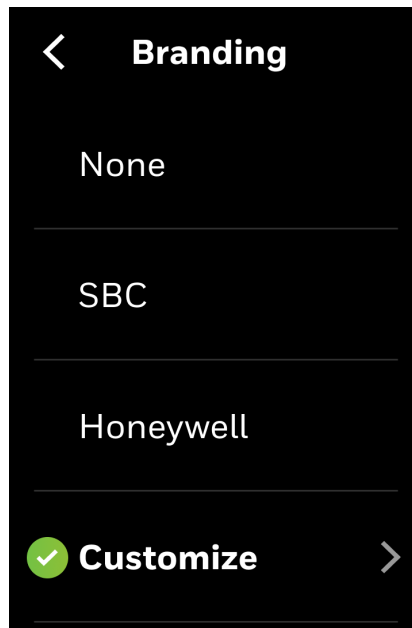


Fig 48. Branding Screen

Note: A maximum of 10 characters is allowed for customizing the branding.
If it exceeds 10 characters, input will not be accepted.

Step 1. The “**Customize**” screen appears.
Here the default branding is “**Customize**”
Click **Input box**, and rename the branding as desired.
If the input box is empty, the “**OK**” option will be disabled.
Example:- Click **Input box** and rename it “**HON**” and then click “**OK**” 
Return to the Branding screen.

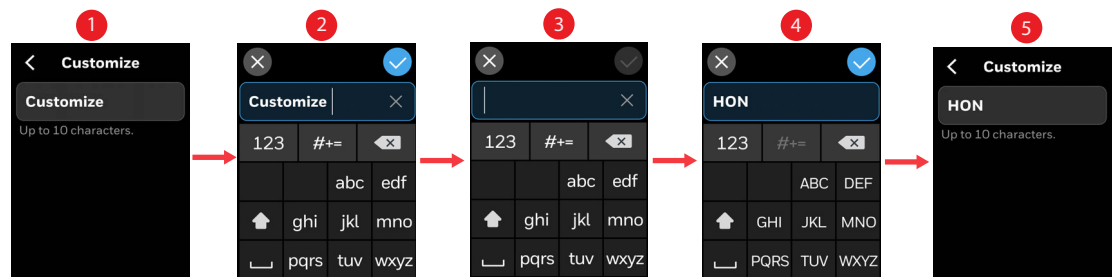


Fig 49. Customize Screen

- Step 2. Customize is shown still in the branding list.
Select "**Customize**" and return to Home Screen..

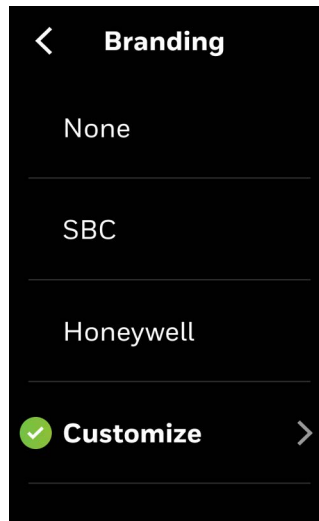


Fig 50. Branding List

- Step 3. The "**HON**" branding appears on Home screen.



Fig 51. Home Screen

More options

Select the more option on the right screen and navigate to more options list.

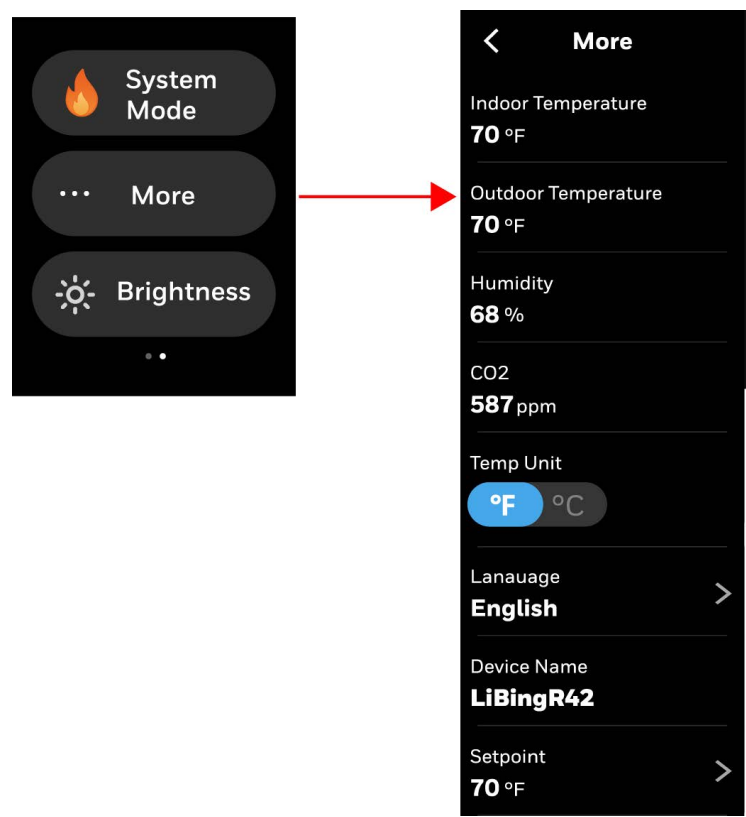


Fig 52. More options

Note: The options displayed depend on the Sylk configuration on the controller side.

Change Parameter Units:

In more menu options, user can change the temperature units if being granted access right to view/edit display unit.

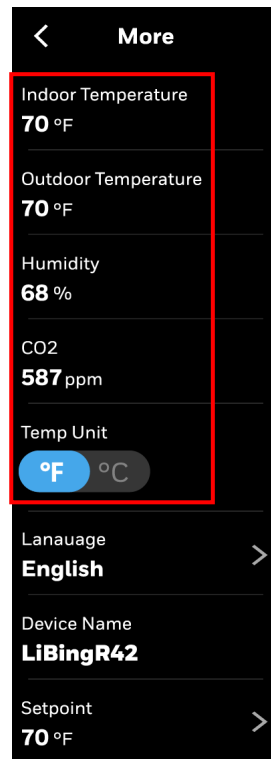


Fig 53. Change temperature units

Change Language:

In more options, user can change the language to international language if being granted access right to view/edit Language.

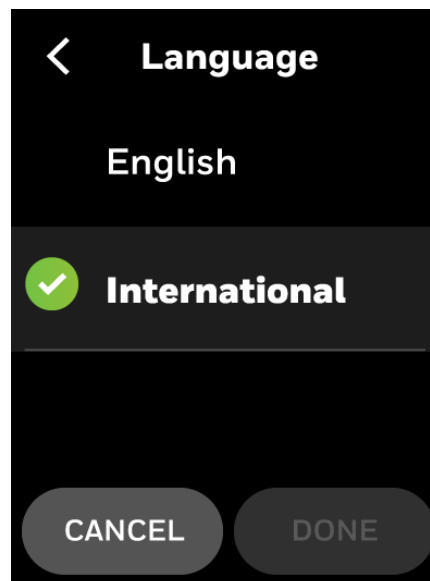


Fig 54. Change Language

TR42 Emulation Display Properties Mode

Table 3. TR42 LED Ring and LCD Behavior

User Role	System Status	Inactive Display	LED Ring Status	LCD Display Time out	Notes
Tenant	Not available	Display Off	OFF	LCD from on to dim: 10 seconds	
				LCD from on to off: 60 seconds	
				Back to home screen: 65 seconds	
		Display Dim	OFF	LCD from on to dim: 10 seconds	
				LCD from on to dim: 60 seconds	
				Back to home screen: 65 seconds	
	Cool/Heat/ Reheat/ OFF	Display Off	Dim	LCD from on to dim: 10 seconds	Orange for heating. Blue for cooling. TR42 and TR75 led breathe ring contains one modes, slow breathing. The cycles of slow breathing is 15s.
			Breathe ring	LCD from on to off: 60 seconds	
			Breathe ring	Back to home screen: 65 seconds	
		Always On	Dim	LCD from on to dim: 10 seconds	Orange for heating. Blue for cooling. TR42 and TR75 led breathe ring contains one modes, slow breathing. The cycles of slow breathing is 15s.
			Breathe ring	LCD from on to dim: 60 seconds	
			Breathe ring	Back to home screen: 65 seconds	
		Always Off	OFF	LCD from on to dim: 10 seconds	
			OFF	LCD from on to off: 60 seconds	
			OFF	Back to home screen: 65 seconds	

User Role	System Status	Inactive Display	LED Ring Status	LCD Display Time out	Notes
Contractor Mode	Not available	Display Off	OFF	LCD from on to dim: 10 seconds	
				LCD from on to off: 900 seconds	
				Exit contractor mode, and back to home screen: 900 seconds	
		Display Dim	OFF	LCD from on to dim: 10 seconds	
				LCD from on to dim: 900 seconds	
				Exit contractor mode, and back to home screen: 900 seconds	
	Cool/Heat/Reheat/OFF	Display Off	Dim	LCD from on to dim: 10 seconds	Orange for heating. Blue for cooling. TR42 and TR75 led breathe ring contains one modes, slow breathing. The cycles of slow breathing is 15s.
			Breathe ring	LCD from on to off: 900 seconds	
			Breathe ring	Exit contractor mode, and back to home screen: 900 seconds	
		Always On	Dim	LCD from on to dim: 10 seconds	Orange for heating. Blue for cooling. TR42 and TR75 led breathe ring contains one modes, slow breathing. The cycles of slow breathing is 15s.
			Breathe ring	LCD from on to dim: 900 seconds	
			Breathe ring	Exit contractor mode, and back to home screen: 900 seconds	
		Always Off	OFF	LCD from on to dim: 10 seconds	
			OFF	LCD from on to off: 900 seconds	
			OFF	Exit contractor mode, and back to home screen: 900 seconds	

Introduction

This section describes the below-mentioned operations the end user can do for the TR75 Emulation:

- View Temperature parameter.
- View Humidity parameter.
- Swipe Left and Right home screen.
- Change System Mode
- Change Fan speed.
- Change Occupancy Mode.
- Brand Configuration
- Viewing and Modifying the Controller Schedule.

TR75 Emulation Overview

Home screen overview (Single Parameter)

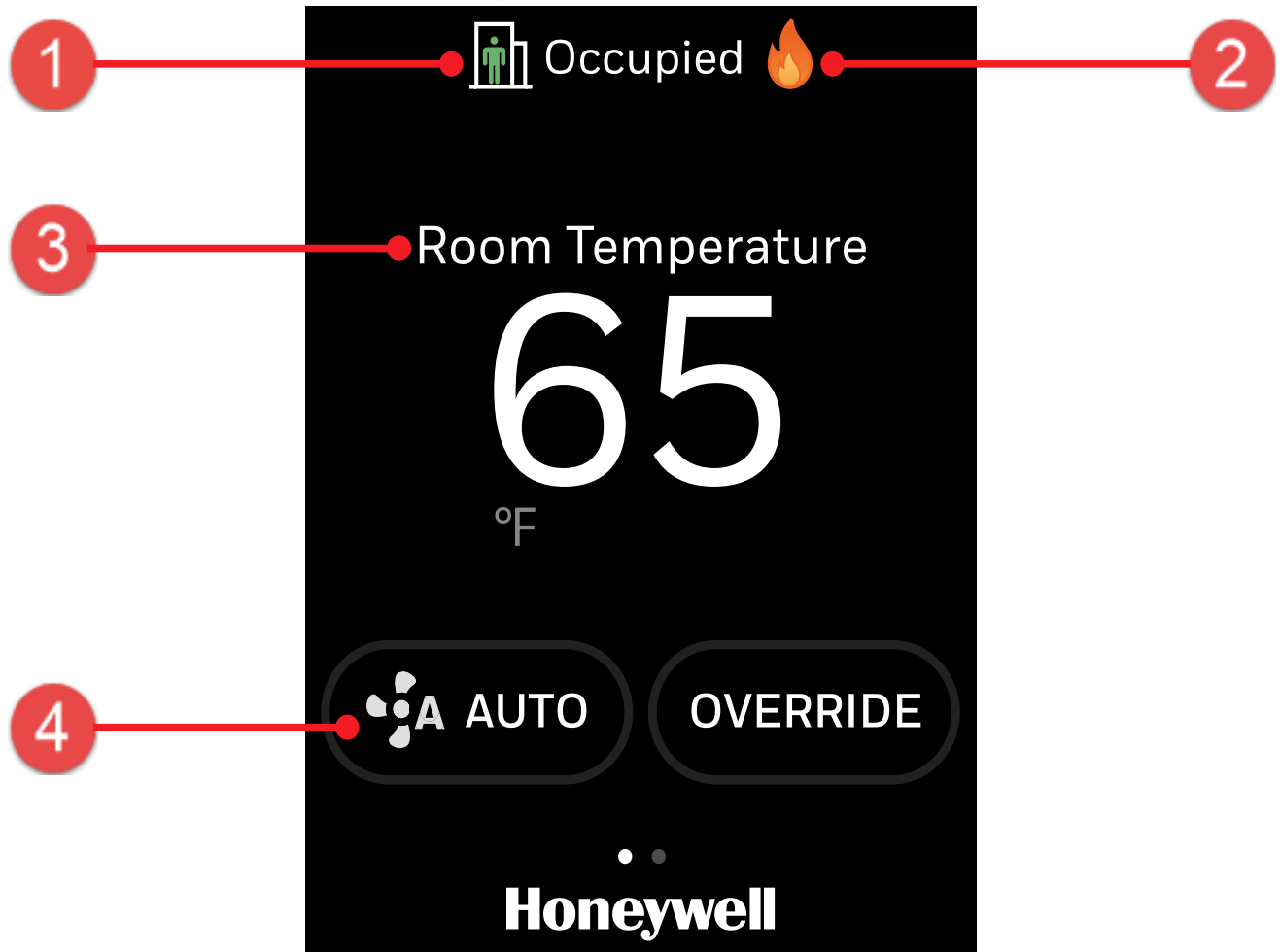
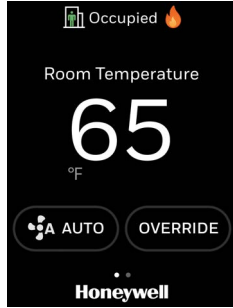
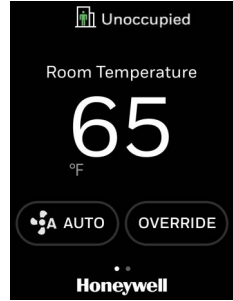
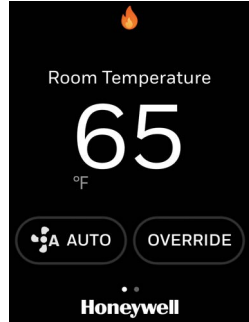
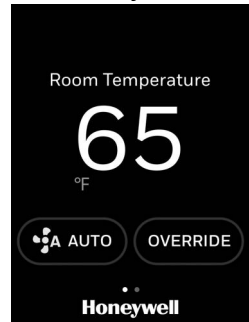


Fig 44. Home screen overview

Table 4. Home screen overview description (Single Parameter)

Item	Description
1	Occupancy Mode: Indicates the current Occupant status (Occupied, Unoccupied, Standby). Below scenarios describes the modes available in TR75 emulation single parameter home screen: Scenario 1: Both for Occupancy Mode (Unoccupied) and Selected System Mode (Heating).  Scenario 2: Only Occupancy Mode (Unoccupied).  Scenario 3: Only Selected System mode (Heating).  Scenario 4: Both Occupancy Mode and System Mode invisible. 

Item	Description
2	System Mode: Orange flame for heat mode, blue snowflake for cool mode.  Heat  Cool  Auto  Off  Fan Only  Em heat
3	Key Parameters: Temperature, Humidity
4	Fan Speed: Indicates current Fan speed for Fan Coil unit. Tap to change the fan speed.

Home screen overview (Multiple Parameters)

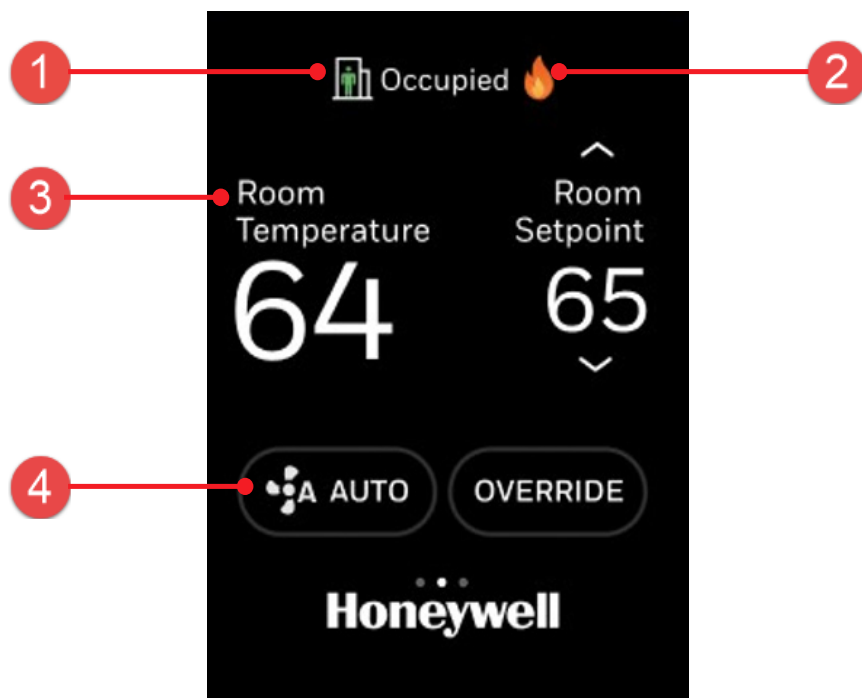


Fig 45. Multiple parameters

Table 5. Home screen overview description (Multiple Parameters)

item	Description
1	Occupancy Mode: Indicates the current Occupant status (Occupied, Unoccupied, Standby).
2	System Display Mode: Orange flame for heat mode, blue snowflake for cool mode.
3	Key Parameters: Temperature, Humidity and CO2.
4	Fan Speed: Indicates current Fan speed for Fan Coil unit. Tap to change the fan speed.

Home Screen

Multiple Parameter type of Home Screen:

In TR75, left parameter, middle parameter, and right parameter configured as Multiple Parameter type of Home Screen in tool will be shown on middle Home Screen and left Home Screen.

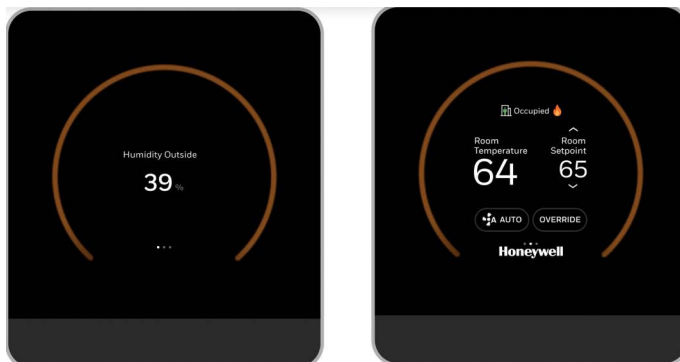


Fig 46. Multiple Parameter type of Home Screen

Any two parameters configured in Multiple Parameter type of Home Screen will be shown on middle Home Screen. Up and Down arrows will show with editable parameter.

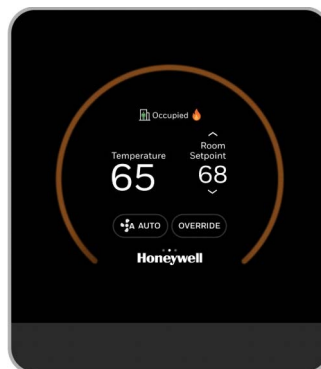


Fig 47. Middle Home Screen

Single Parameter type of Home Screen:

If configured single parameter type of Home Screen, the single parameter will be shown in middle home screen.

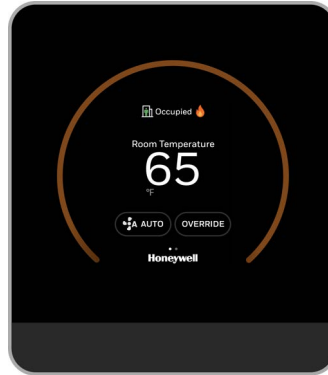


Fig 48. Single Parameter type of Home Screen

Home Screen workflow - Change System Mode, Change Fan Speed and Change Occupancy Mode

Change System Mode

System Mode is on right home screen. The following types of System Modes can be configured for TR75 Emulation:

- Off / Heat (Heat Only)
- Off / Cool (Cool Only)
- Off / Heat / Cool (No Auto Changeover)
- Off / Auto / Heat / Cool (Auto Changeover)
- Off / Auto / Heat / Cool / EmergencyHeat (Heat Pump)

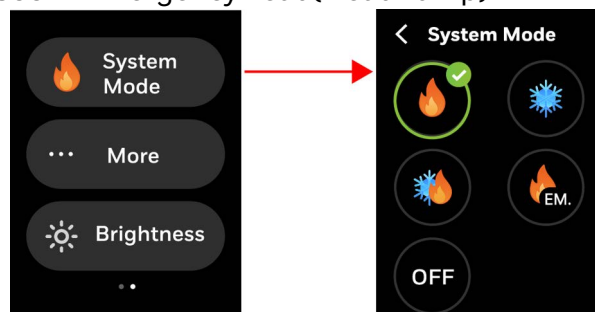


Fig 49. Change System mode

Change Fan speed

The following types of Fans can be configured for TR75 Emulation:

2 State (Auto, On):

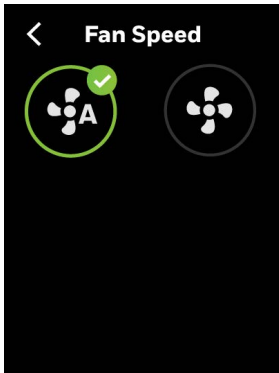


Fig 50. 2 state type fan

3 State (Auto, On, Off):

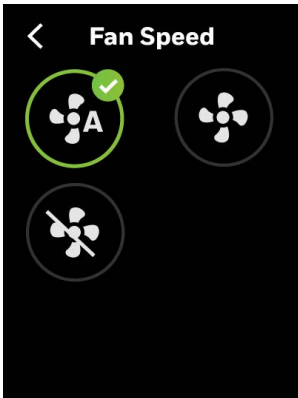


Fig 51. 3 state type fan

5 State (Auto, Off, Low, Medium, High):

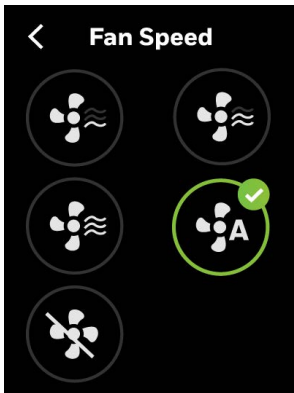


Fig 52. 5 state type fan

Change Occupancy Mode

Override to Occupied, Override to Unoccupied, and Override to Standby may be configured separately for TR75 with override types of Continuous Override, Timed Override in Hours (Bypass), Timed Override in Days (Bypass).

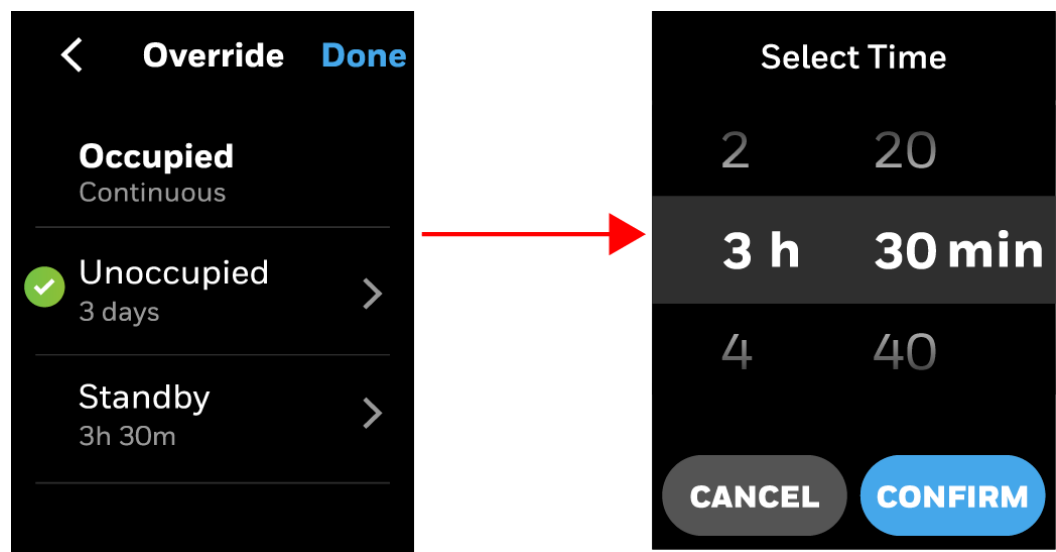


Fig 53. Occupancy Mode

Brand Configuration

The Brand Configuration includes options to select or configure the wall module Branding.

- Step 1. On the Home screen, long press to the Honeywell logo, it will navigate to the **Contractor Mode**.
Select **Branding** from the list.

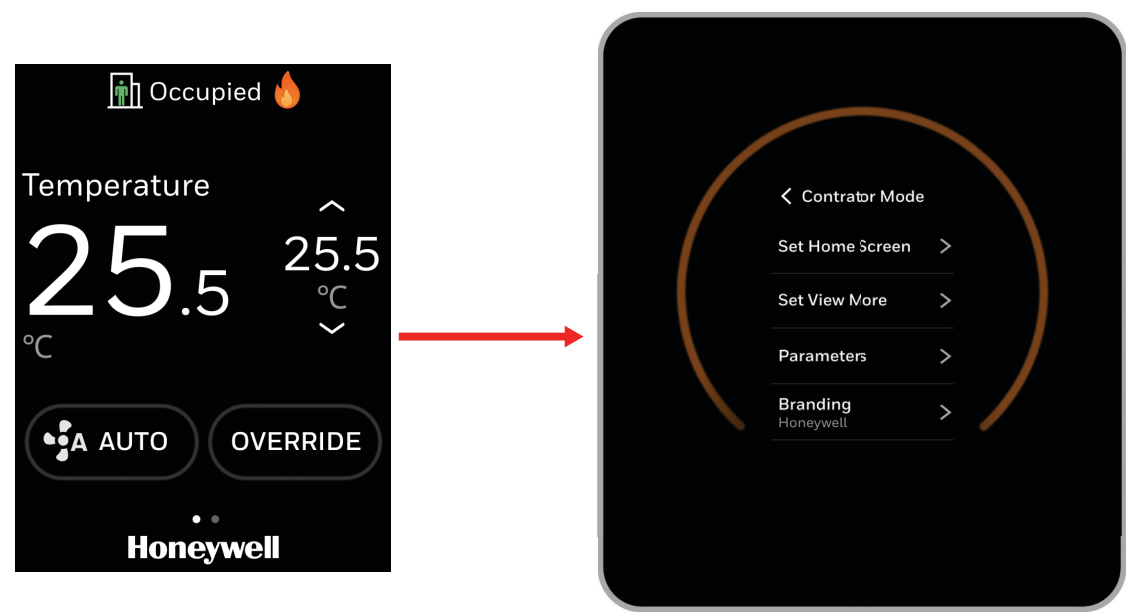


Fig 54. Contractor Mode

Here the default branding is “Honeywell”.

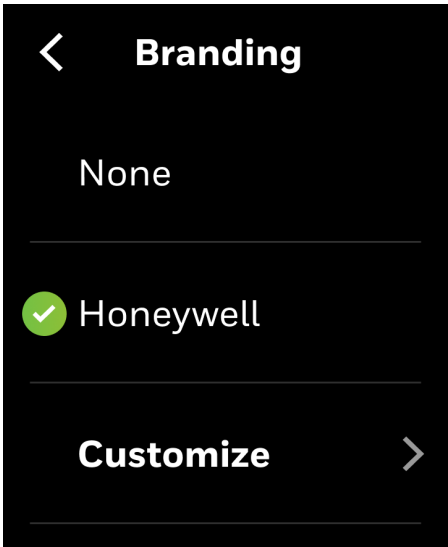


Fig 55. Branding Screen

Note: There are two additional options under Brand Configuration are: **“None”** and **“Customize”**, the examples are shown below:-

- Step 1. From the Branding list, select **None**.
Tap  to return Home screen.

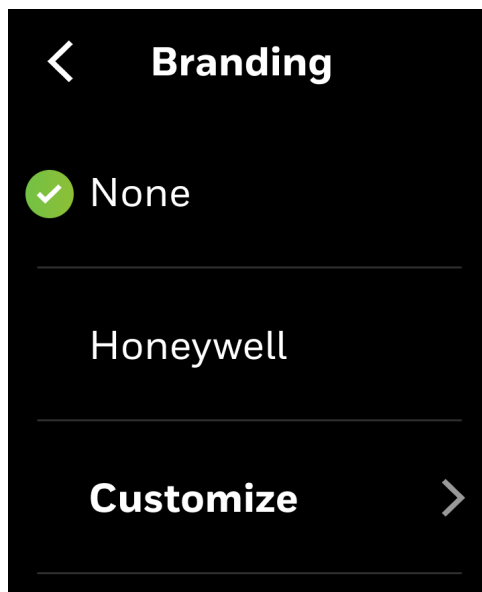


Fig 56. Branding Screen

- Step 2. The Home screen will show no branding.



Fig 57. Home Screen

The “**Customize**” includes the option to modify the branding as desired.

Step 1. From the Branding list, select “**Customize**” to modify the branding.

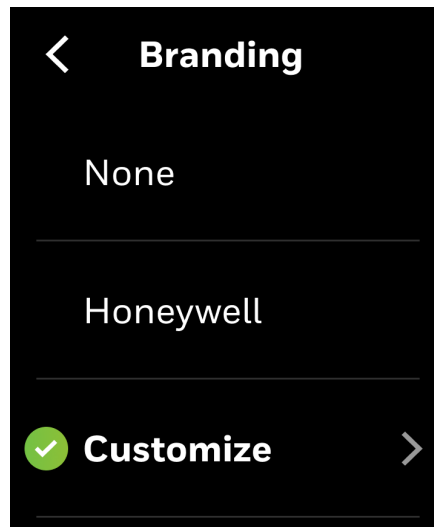


Fig 58. Branding Screen

Note: A maximum of 10 characters is allowed for customizing the branding.
If it exceeds 10 characters, input will not be accepted.

Step 1. The “**Customize**” screen appears.
Here the default branding is “**Customize**”
Click **Input box**, and rename the branding as desired.
If the input box is empty, the “**OK**” option will be disabled.
Example:- Click **Input box** and rename it “**HON**” and then click “**OK**” .
Return to the Branding screen.

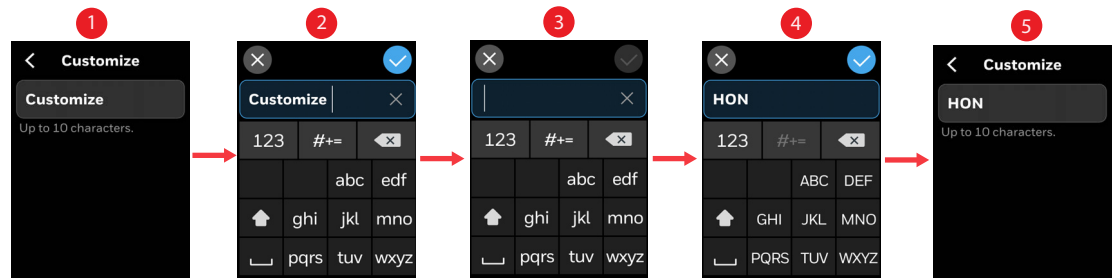


Fig 59. Customize Screen

- Step 2. Customize is shown still in the branding list.
Select "**Customize**" and return to Home Screen.

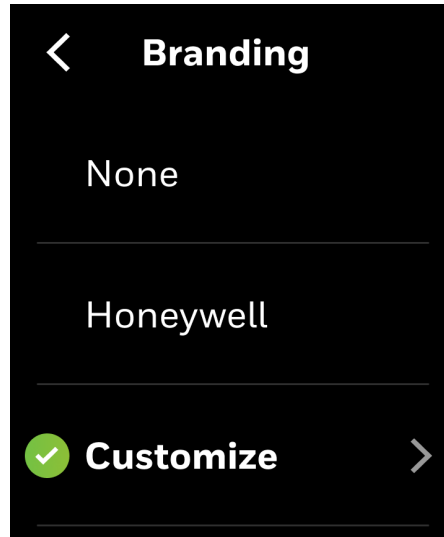


Fig 60. Branding List

- Step 3. The "**HON**" branding appears on Home screen.



Fig 61. Home Screen

Viewing and Modifying the Controller Schedule

In configuration tool, Schedule can be configured viewable or editable in contractor mode and more menu on TR100.

The following types of schedules can be configured for TR75:

8-day schedule, 7-day schedule, 5-2-1 day schedule, or the 5-2 schedule:

If using the 5-2-1 or 5-2-day schedule, you should configure the controller for the same schedule.

When schedule is set to Contractor Only, it will be shown only in Parameters in Contractor Mode on TR100.

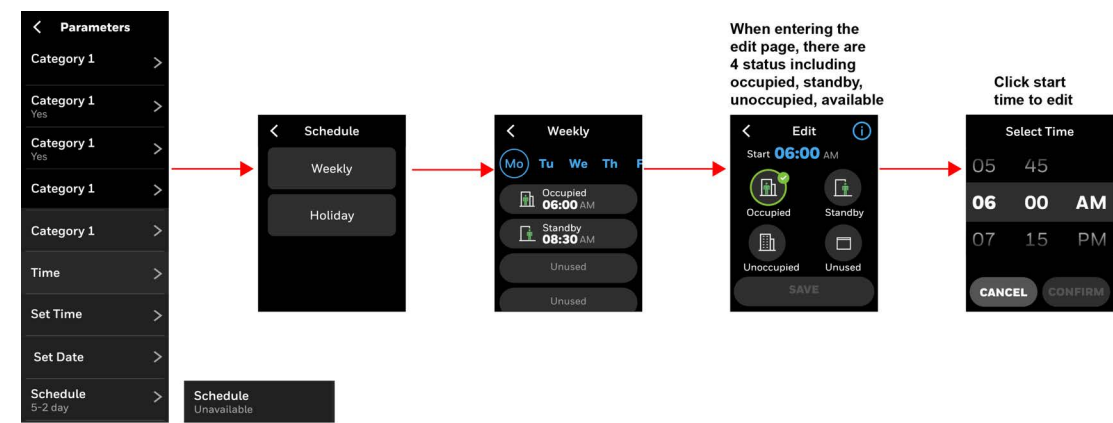


Fig 62. 8-day schedule

5-2 Schedule (Monday-Friday and Saturday-Sunday):

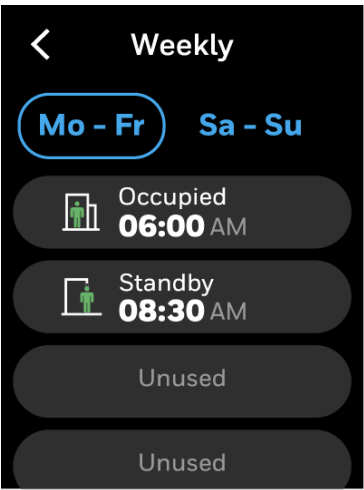


Fig 63. 5-2 Schedule

More Menu

More menu is shown on right Home Screen.

Any other parameters set to Tenant Read Only/Tenant Read Write; it will be also shown in More menu on TR100.

When schedule is set to Tenant Read Only/Tenant Read Write, it will be shown in More menu on TR100.

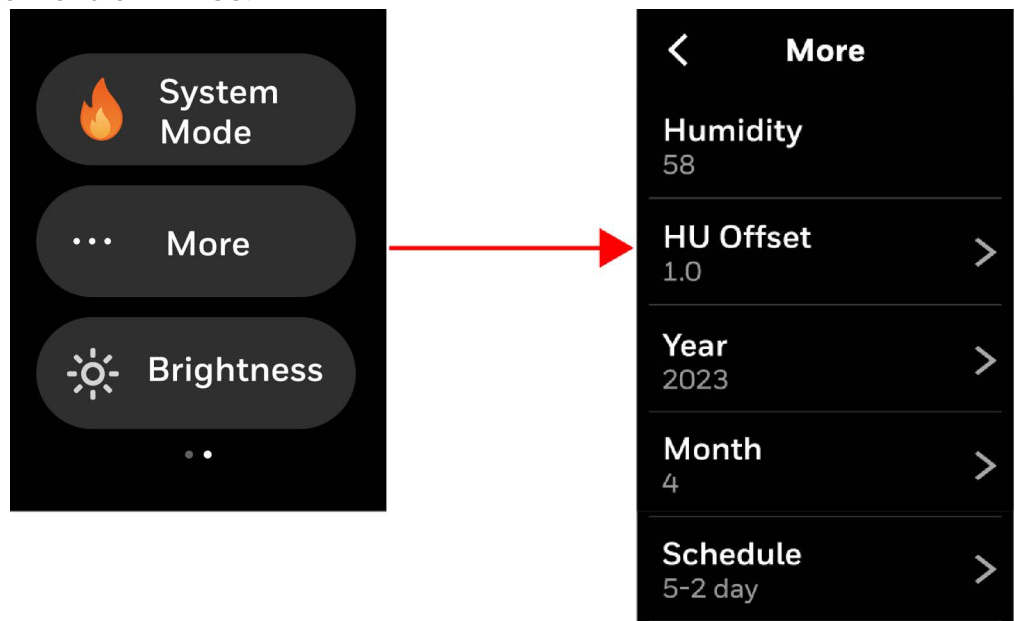


Fig 64. More menu

TR75 Emulation Display and LED Ring Properties Mode

Table 6. TR75 Emulation Display and LED Ring properties

User Role	System Status	Inactive Display	LED Ring Status	LCD Display Time out	Notes
Tenant	Not available	Display Off	OFF	LCD from on to dim: 10 seconds	
				LCD from on to off: 60 seconds	
				Back to home screen: 65 seconds	
		Display Dim	OFF	LCD from on to dim: 10 seconds	
				LCD from on to dim: 60 seconds	
				Back to home screen: 65 seconds	
	Cool/Heat/ Reheat/ OFF	Display Off	Dim	LCD from on to dim: 10 seconds	Orange for heating. Blue for cooling. TR42 and TR75 led breathe ring contains one modes, slow breathing. The cycles of slow breathing is 15s.
			Breathe ring	LCD from on to off: 60 seconds	
			Breathe ring	Back to home screen: 65 seconds	
		Always On	Dim	LCD from on to dim: 10 seconds	Orange for heating. Blue for cooling. TR42 and TR75 led breathe ring contains one modes, slow breathing. The cycles of slow breathing is 15s.
			Breathe ring	LCD from on to dim: 60 seconds	
			Breathe ring	Back to home screen: 65 seconds	
		Always Off	OFF	LCD from on to dim: 10 seconds	
			OFF	LCD from on to off: 60 seconds	
			OFF	Back to home screen: 65 seconds	

User Role	System Status	Inactive Display	LED Ring Status	LCD Display Time out	Notes
Contractor Mode	Not available	Display Off	OFF	LCD from on to dim: 10 seconds	
				LCD from on to off: 900 seconds	
				Exit contractor mode, and back to home screen: 900 seconds	
		Display Dim	OFF	LCD from on to dim: 10 seconds	
				LCD from on to dim: 900 seconds	
				Exit contractor mode, and back to home screen: 900 seconds	
	Cool/Heat/Reheat/OFF	Display Off	Dim	LCD from on to dim: 10 seconds	Orange for heating. Blue for cooling. TR42 and TR75 led breathe ring contains one modes, slow breathing. The cycles of slow breathing is 15s.
			Breathe ring	LCD from on to off: 900 seconds	
			Breathe ring	Exit contractor mode, and back to home screen: 900 seconds	
		Always On	Dim	LCD from on to dim: 10 seconds	Orange for heating. Blue for cooling. TR42 and TR75 led breathe ring contains one modes, slow breathing. The cycles of slow breathing is 15s.
			Breathe ring	LCD from on to dim: 900 seconds	
			Breathe ring	Exit contractor mode, and back to home screen: 900 seconds	
		Always Off	OFF	LCD from on to dim: 10 seconds	
			OFF	LCD from on to off: 900 seconds	
			OFF	Exit contractor mode, and back to home screen: 900 seconds	

Home screen Overview

The home screen overview of TR100 is shown below:

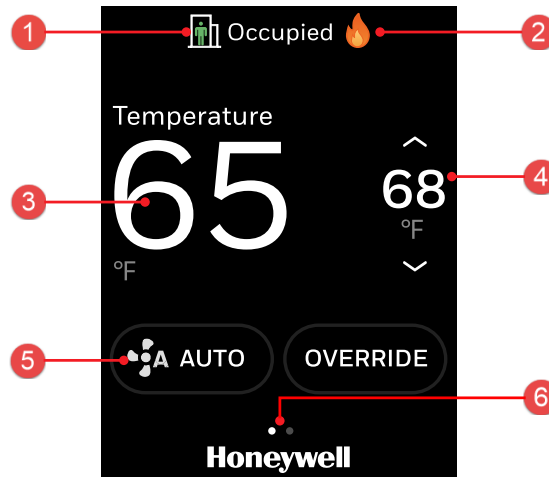


Fig 65. Home screen overview

Table 7. Home screen overview description

Numbering	Description
1	Occupancy Mode: Indicates the current Occupant status (Occupied, Unoccupied, Standby, Frost)
2	System Mode: Orange flame for heat mode, blue snowflake for cool mode.
3	Indoor Temperature: Configurable to display Temperature, Humidity and CO2 parameters.
4	Setpoints: Configurable to show/hide current effective Relative setpoint or Absolute setpoint, clicking will enter setpoint adjustment screen.
5	Fan Speed: Indicates current Fan speed for Fan Coil unit. Tap to change the fan speed.
6	Home Screen Indicator: User can swipe to left or right to display more options.

Quick access screen (right side screen): Device configuration

The Quick access right side screen is available only in BACnet™ and Modbus™ for TR100 wall module.

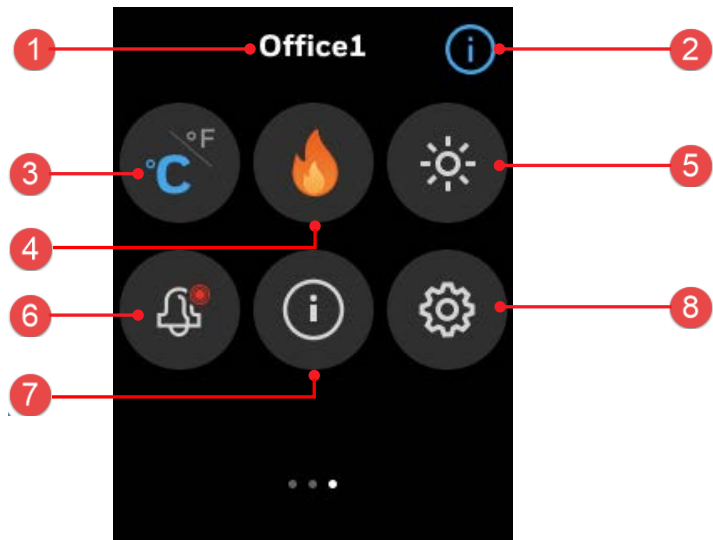


Fig 66. Right Screen

Table 8. Quick screen access

Numbering	Description
1	The name assigned to the wall module.
2	Help icon: User help information for the options available on the screen.
3	Temperature Units: Toggle between Fahrenheit or Celsius.
4	System mode (heating, cooling)
5	Brightness: Increase or decrease the brightness of the display.
6	Alarm: View active alarms.
7	System Status: See the system status of Wall module itself and some information from controller.
8	Config: Configure the wall module.

Ambiance screen (left side screen): Sensor reading

Swipe right from the home screen to view the Ambiance screen. User can define a maximum of four parameters from controller here.

The ambiance left side screen is available for BACnet/Modbus TR100 wall module.

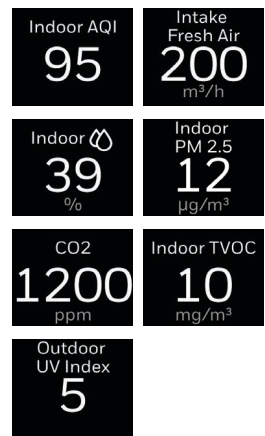


Fig 67. Left screen

Table 9. Typical ambiance screen

Description
Indoor AQI
Indoor humidity %
Indoor CO2 level (ppm)
Outdoor UV Index
Intake Fresh Air
Indoor PM 2.5
Indoor TVOC

Alarm icon overview

Table 10. Home Screen icon overview

Icon	Description
Alarm modes	
	No alarm
	High alarm
	Medium alarm
	Low alarm

System Modes

The following system mode options are supported by TR100 wall module:

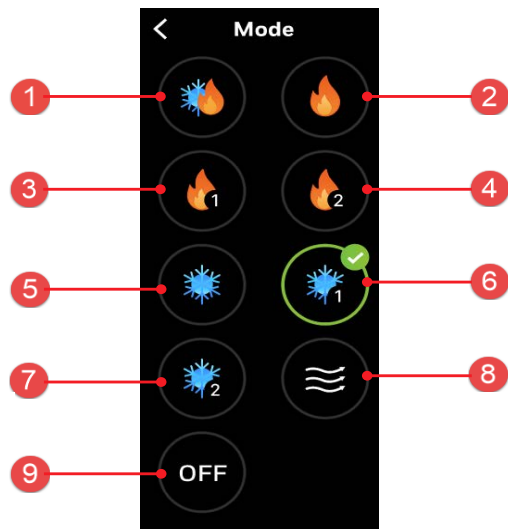


Fig 68. System Modes

Table 11. System Mode description

Numbering	Description
1	Auto
2	Heating
3	Heating 1
4	Heating 2
5	Cooling
6	Cooling 1
7	Cooling 2
8	Fan only
9	OFF

Configuration Screen

The below mentioned configuration can be done when the TR100 is connected via BACnet/Modbus network.

The configuration screen displays all the configuration items of the wall module.

1. Swipe left from the home screen.
2. On the Quick access screen, tap configuration  button.
The Configuration screen appears.

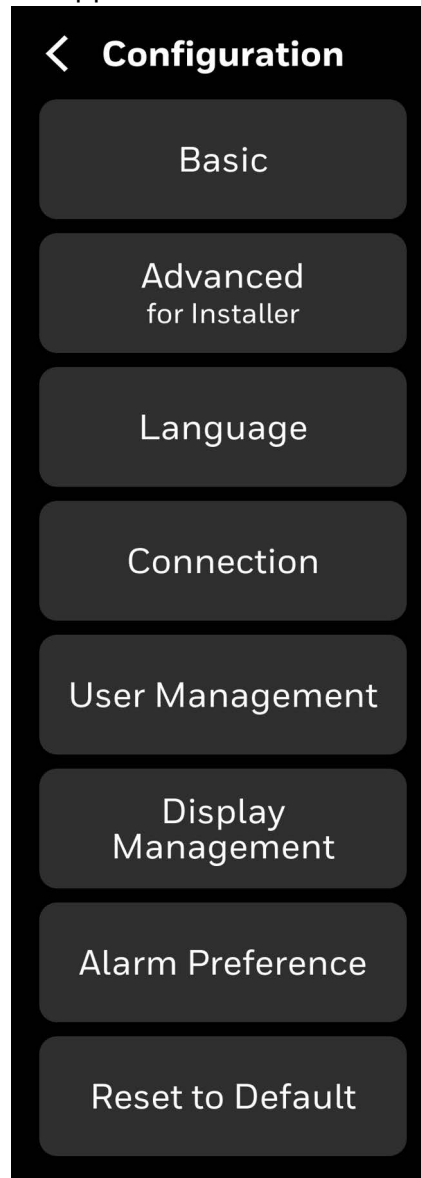


Fig 69. Configuration Screen

Basic Configuration

The Basic Configuration includes options to configure the wall module setting such as Device Name and Screen Cleaning.

You might have configured these configurations while setting up the device. However, you can change the configuration here again.

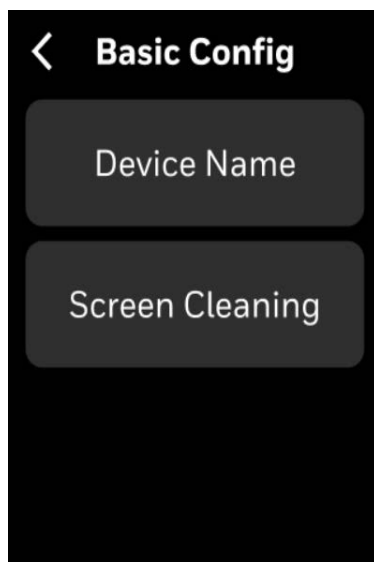


Fig 70. Basic Configuration

To rename the device name:

1. Swipe left from the home screen.
2. On the Quick access screen, tap  > **Basic** > **Device Name**. The Device Name screen appears.

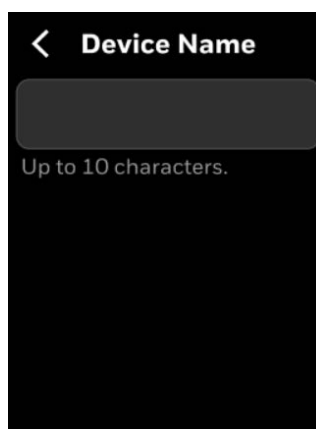


Fig 71. Device Name

3. Tap on the text field.
A keyboard will be displayed on the screen to enter the device name.

4. Enter the device name.
Assign a unique name to a device specifying a name to the location where the device is installed. It assists the user to easily identify the device during remote operation of the device.
5. Tap the back button to navigate back to the previous screen and save the settings.

To enable screen cleaning mode:

Screen cleaning mode lock/disable the touch sensitivity of the display for 30 seconds by default so you clean the device display while the device is functional.

1. Swipe left from the home screen.
2. On the Quick access screen, tap  > **Basic** > **Screen cleaning**.
The Screen cleaning screen appears.

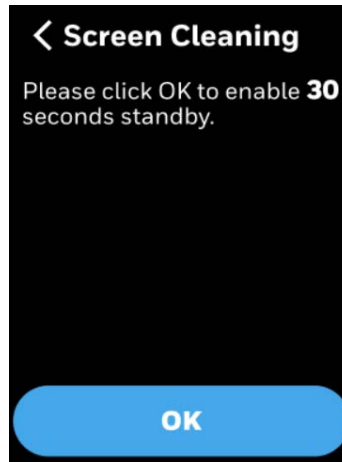


Fig 72. Screen Cleaning

3. Tap **OK** to enable the screen cleaning mode for 30 seconds or tap the back button to navigate back to the previous screen.



Fig 73. Cleaning

Advanced Configuration

The Advanced Configuration includes options to configure the wall module setting such as Local Sensor Offset, Security Log, and Diagnostics.



Fig 74. Advanced Config

To Configure Local Sensor Offset:

1. Swipe left from the home screen.
2. On the Quick access screen, tap  > **Advanced Config** > **Sensor setting** > **Local Sensor Offset**.
The Sensor Offset screen appears, which sensor offset is shown depends on device model.

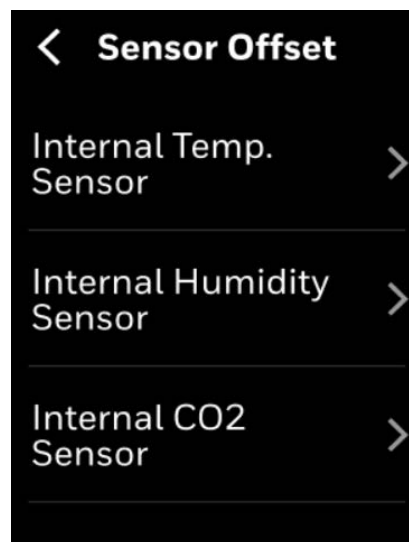


Fig 75. Sensor Offset

3. Set the offsets for internal temperature sensor, internal humidity sensor and internal CO2 sensor.

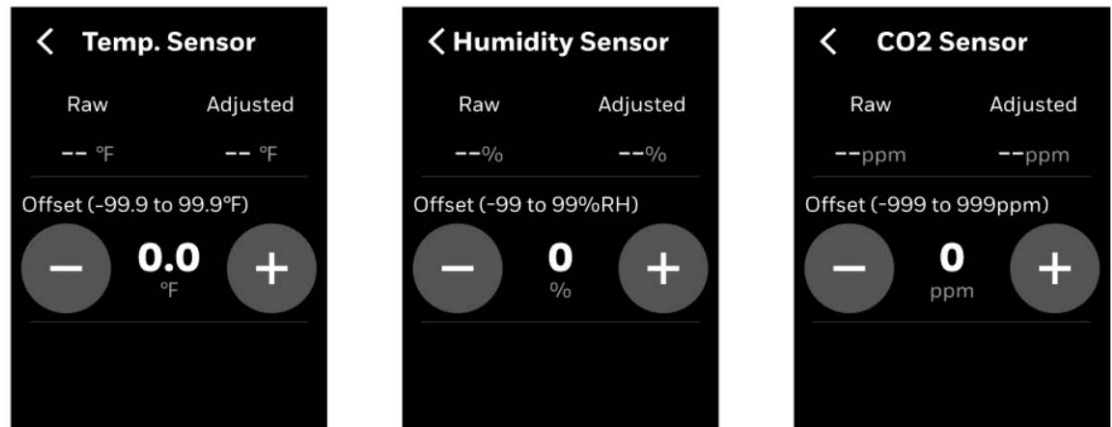


Fig 76. Offset Sensor Screens

Note: These offsets should be used only when measured temperature or humidity is verified with calibrated sensor located in same location.

Viewing the Security Log:

The security log contains records of the critical security events such as password change, user role switch, firmware upgrade and so on.

1. Swipe left from the home screen.
2. On the Quick access screen, tap  > **Advanced Config** > **Security Log**.
The Security Log screen appears.

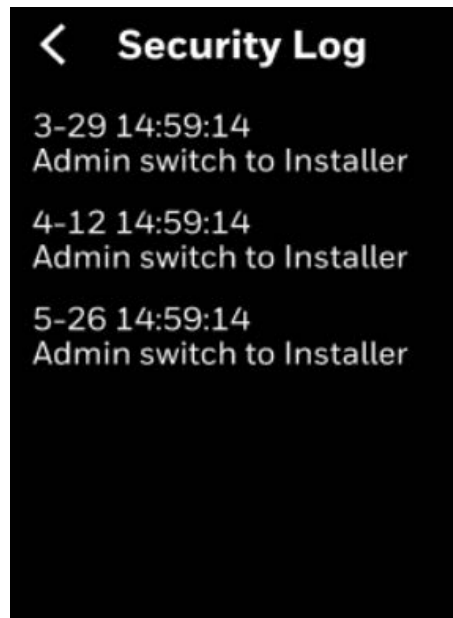


Fig 77. Security Log

Viewing the Diagnostics:

The diagnostics information of the wall module helps to service the device based on the log information.

1. Swipe left from the home screen.
2. On the Quick access screen, tap  > **Advanced Config** > **Diagnostics**.
The Diagnostics screen appears.

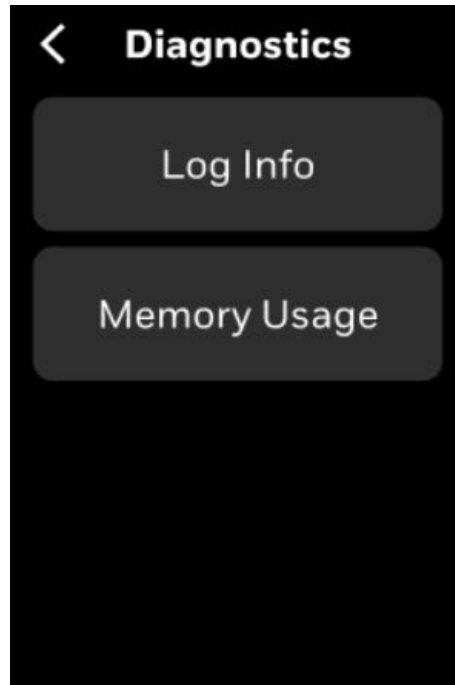


Fig 78. Diagnostics

3. **Log info:** Log info of wall module is like device restart and other exception issues.
4. **Memory Usage:** Memory Usage of the firmware.

Language

Language menu includes the option to select the language such as **“English”** (Icon + Text) and **“International”** (Icon only).

Steps to select the language:

Step 1. Swipe Left from the home screen.

Step 2. On the Quick access screen, tap 

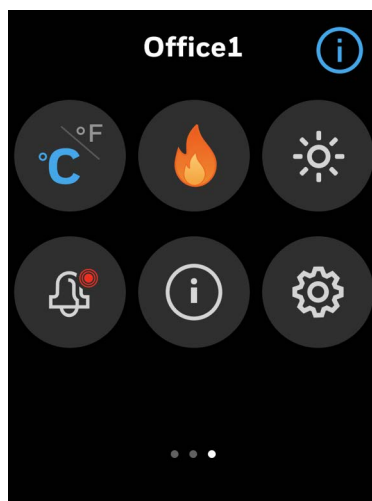


Fig 79. Right Screen

Step 3. The Configuration screen appears, select **Language**.

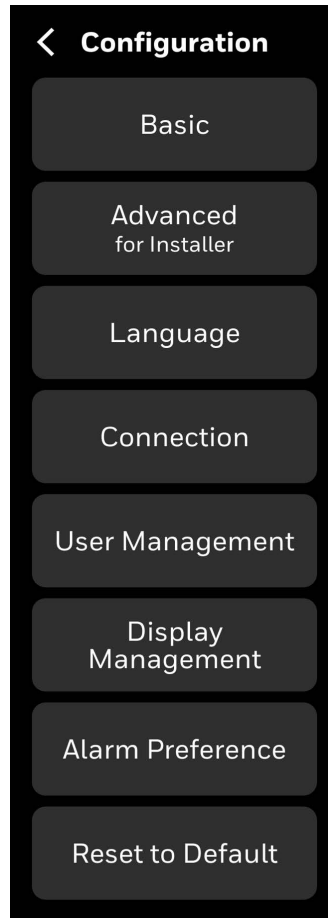


Fig 80. Configuration Screen

Step 4. Select the Language as desired, click “◀” to return Home Screen.

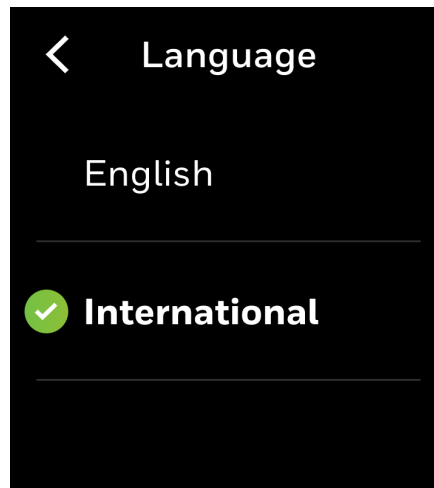


Fig 81. Language Screen

Note: Default language option is **English**.

The following are the screens for both options:

The Home Screens:

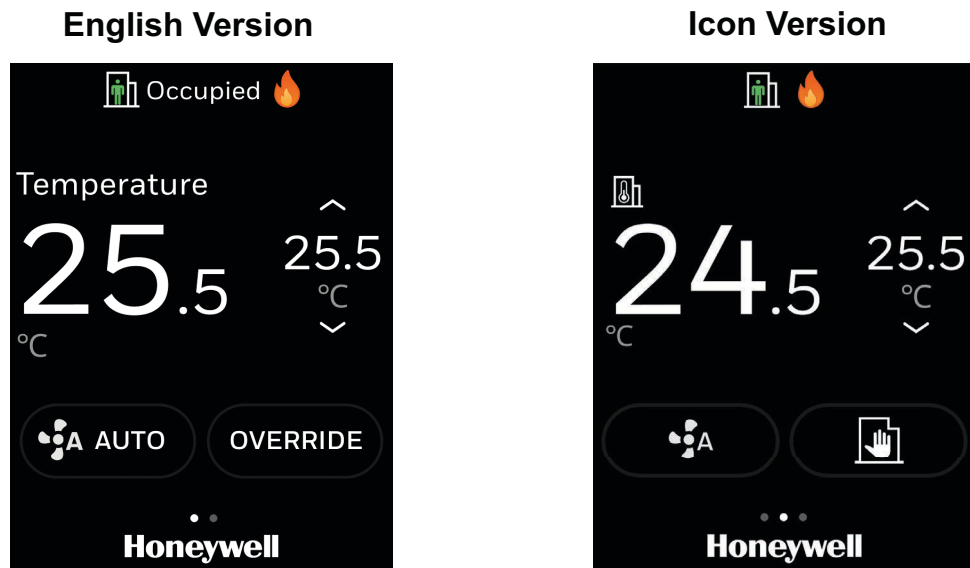


Fig 82. Home Screen

The Left Side Screen:

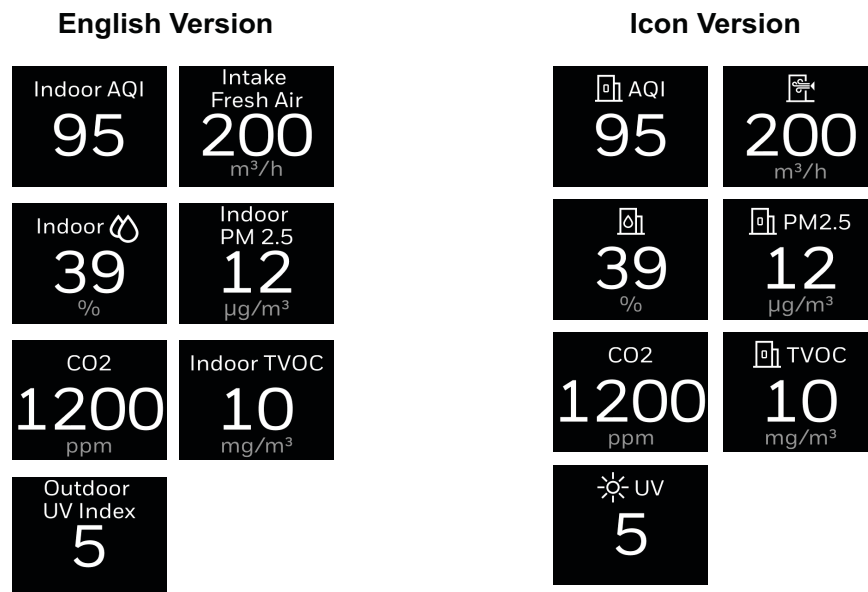
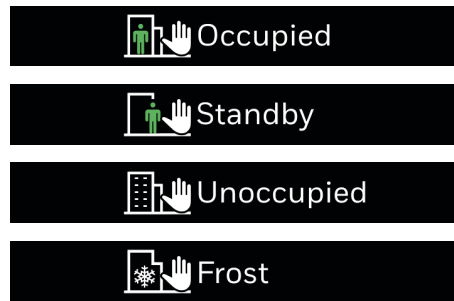


Fig 83. Left Screen

The Override Icons:

English Version



Icon Version

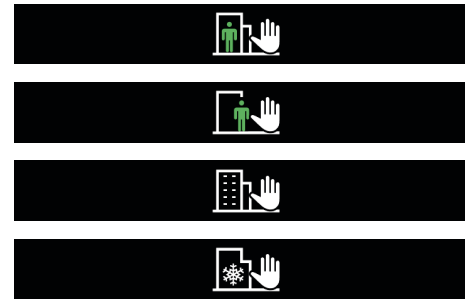
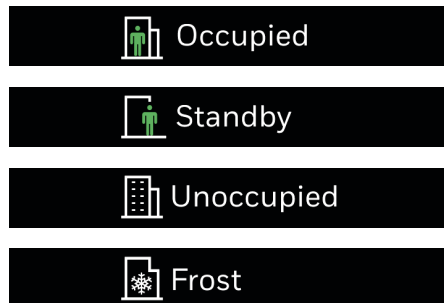


Fig 84. Override Icons

The Occupancy Status:

English Version



Icon Version

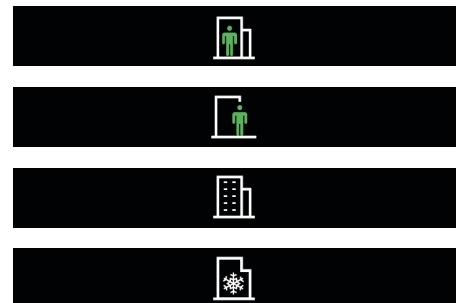
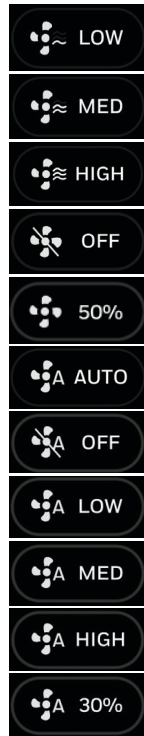


Fig 85. Occupancy Status

The Fan Modes:

English Version



Icon Version

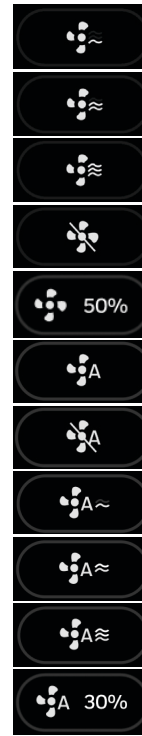
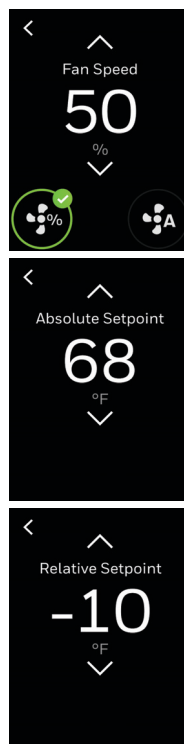


Fig 86. Fan Modes

The Fan Speed, Absolute Setpoint and Relative Setpoint:

English Version



Icon Version

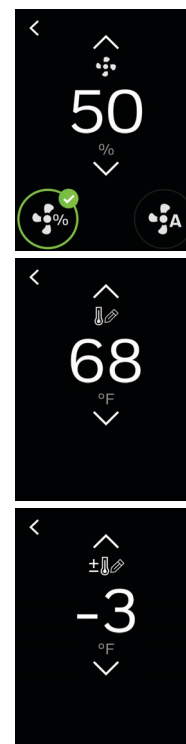


Fig 87. Fan Speed and Relative Setpoint

Change Occupancy Mode

The override options shown on TR100 depend on the configuration.

There are up to six override options: Override to Occupied, Override to Bypass, Override to Unoccupied, Override to Standby, Override to Frost (which is used for device protection), Override to Holiday.

Override setting to Occupied Mode:

Press override button on the home screen and click tick button. It will override the current Occupancy Mode to Occupied Mode.

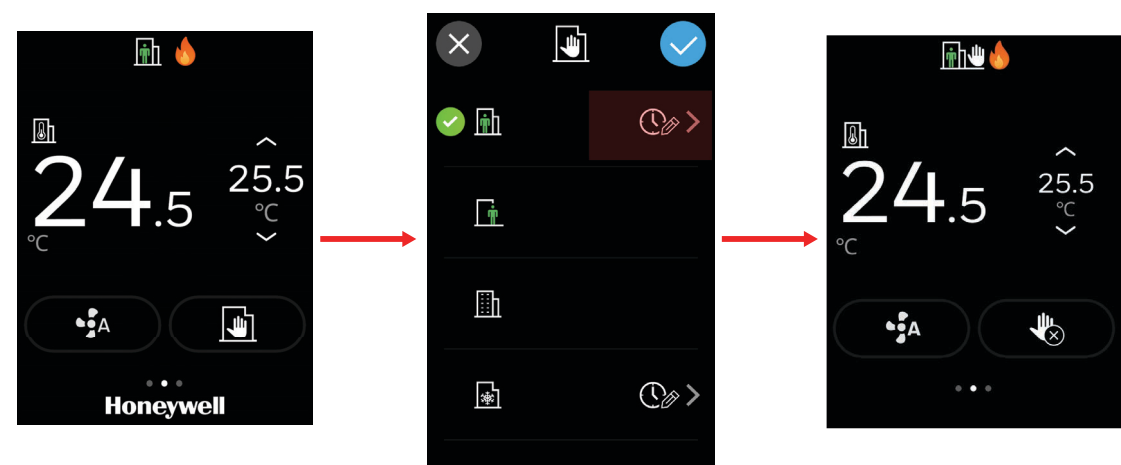


Fig 88. Occupied Mode

To Cancel Override Mode:

Press override button on the home screen and click YES.

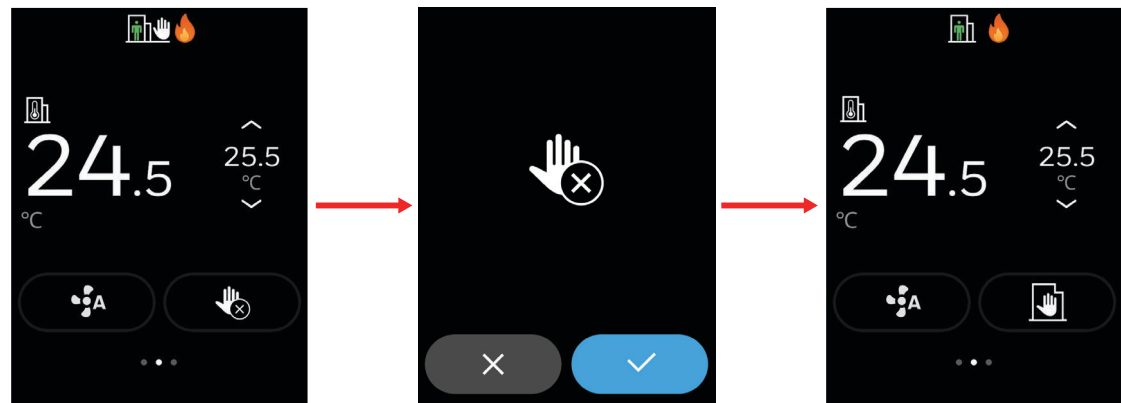


Fig 89. Occupied Mode

Override the occupied by time:

Click set time button , Set the time and click OK . It will show the time information beside the override button.

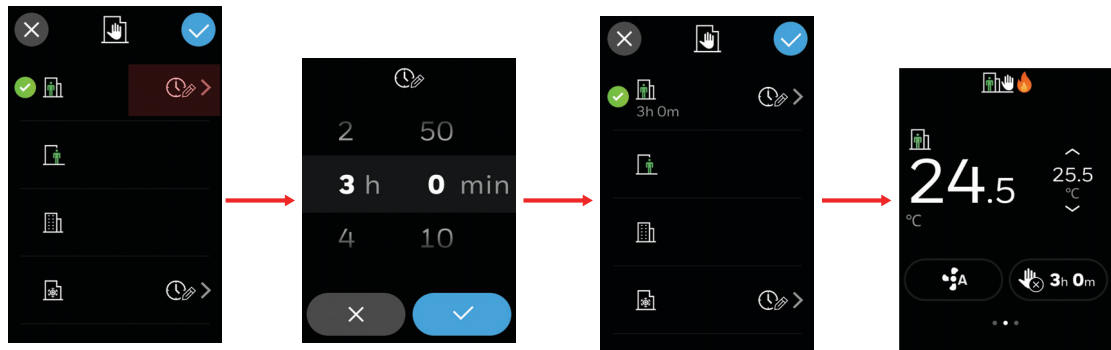


Fig 90. Occupied Mode

Note: If user selects “Occupied” without setting the time and pressing the “OK” button, the TR100 will override to “Occupied” but won’t display the time information beside the override icon.

Override to Frost mode:

Click set time button , Set the days and click OK . It will show the days information beside the override button.

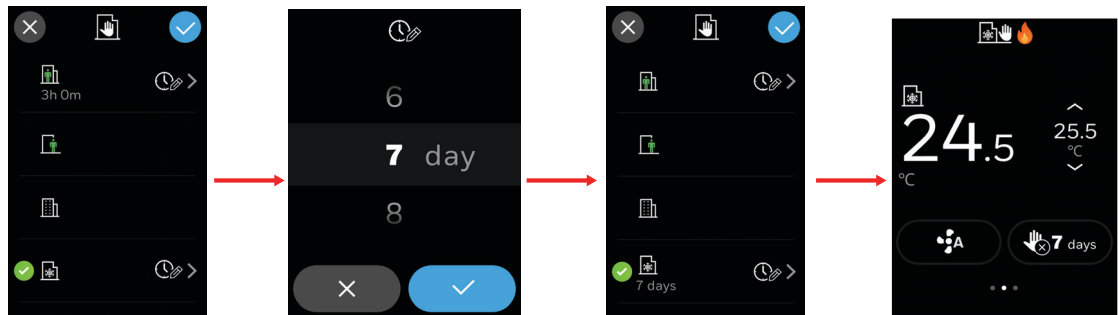


Fig 91. Frost Mode

Note: If user selects “Frost” without setting the Days and pressing the “OK” button, the TR100 will override to “Frost” but won’t display the days information beside the override icon.

User Management

The Honeywell TR100 Wall Module supports four kinds of user identities as identified in below table with limited privileges as noted. Except for the Installer role these privileges can be reduced in the user settings menu.

Table 12. User roles and Permissions

	Visitor	Basic User	Admin	Installer
System Mode		Yes	Yes	Yes
Change Occupancy Mode		Yes	Yes	Yes
View Alarm		Yes	Yes	Yes
Temperature Units		Yes	Yes	Yes
Change Fan Speed		Yes	Yes	Yes
LCD Brightness		Yes	Yes	Yes
Change Setpoint			Yes	Yes
Basic Configuration			Yes	Yes
Advanced Configuration				Yes

Configuring the User Management:

1. Swipe left from the Home screen.
2. On the Quick access screen, tap  > **User Management**.
The User Management screen appears.

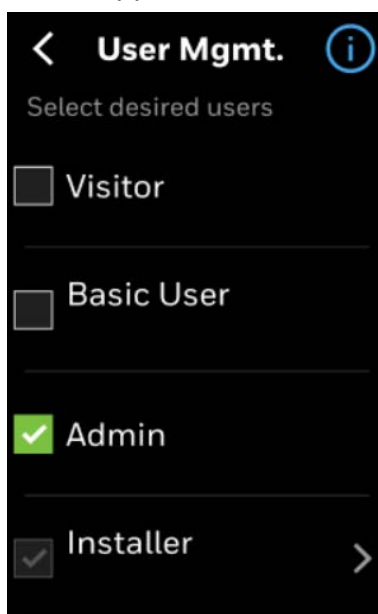


Fig 92. User Management Screen

Visitor

To view the Visitor user role:

1. On the User Management screen, select **Visitor**.
2. Tap “<” to go to the previous screen.

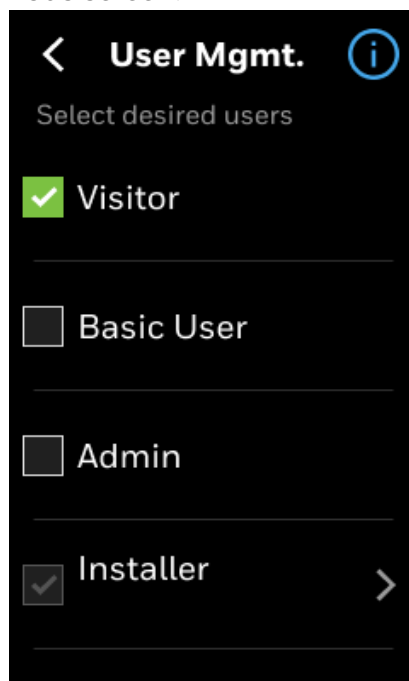


Fig 93. User Management (Visitor)

The Visitor Screen displays the temperature setpoints and other values (such as Humidity or CO2), setpoint per configuration.

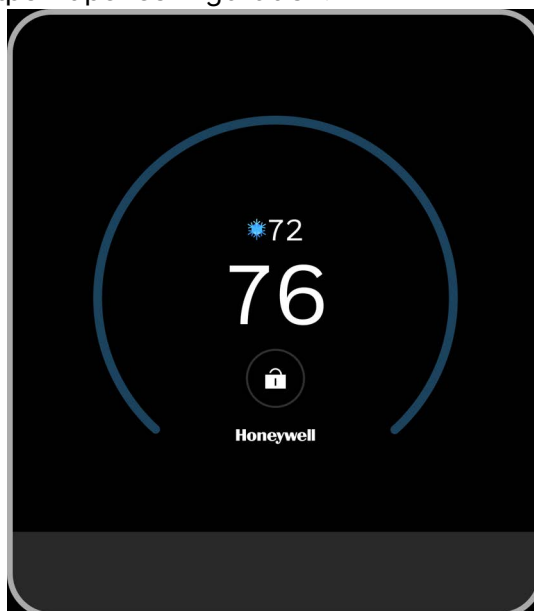


Fig 94. Visitor Screen

Basic User

- To manage the Basic User role:
1. On the User Management screen, select Basic User, and tap “>”
The Basic User screen appears.

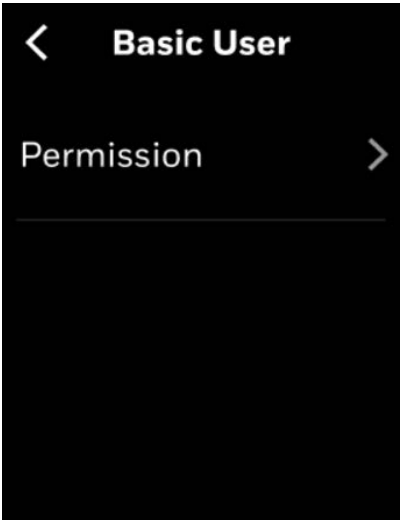


Fig 95. Basic User Screen

2. Tap **Permission**.
The permission screen appears.

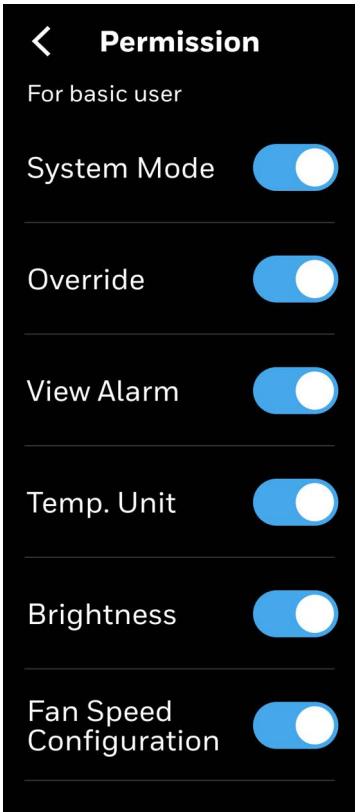


Fig 96. Permission

Enable or disable the permission as per the requirement.

Admin

To manage the Admin user role:

1. On the User Management screen, select Admin, and tap “>”
The Admin Passcode screen appears.
2. Set the passcode and save. The passcode will be used by the Admin user to access the TR100 Wall Module.

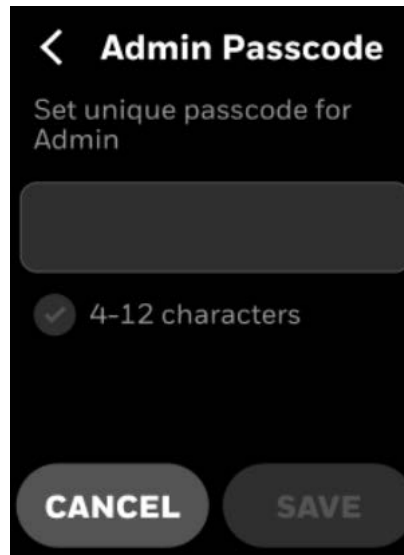


Fig 97. Admin Passcode

Installer

To manage the Installer user role:

1. On the User Management screen, select Installer, and tap “>”.
2. Set or change a Passcode.

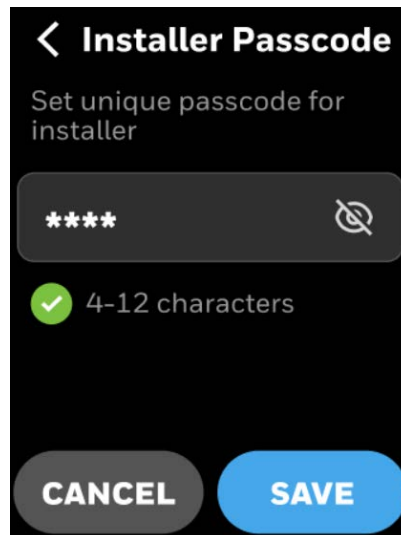


Fig 98. Installer

Display Management

Display Management includes option to configure the wall module setting such as Branding and Home Screen Configuration.

Brand Configuration

The Brand Configuration includes options to select or configure the wall module Branding.

Step 1. Swipe Left from the home screen.

Step 2. On the Quick access screen, tap 

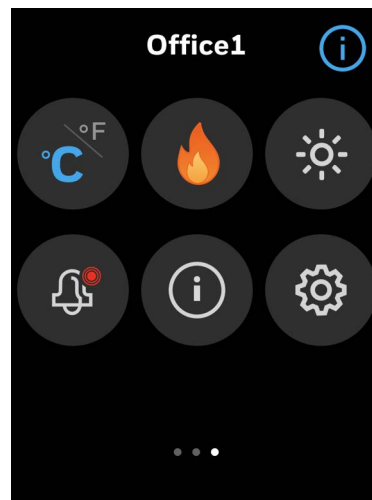


Fig 99. Right Screen

Step 3. The Configuration screen appears, select **Display Management**.

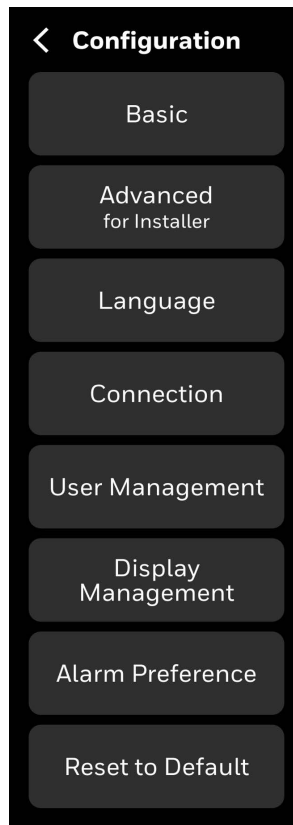


Fig 100. Configuration Screen

Step 4. The Display Management screen appears, select the **Branding**.

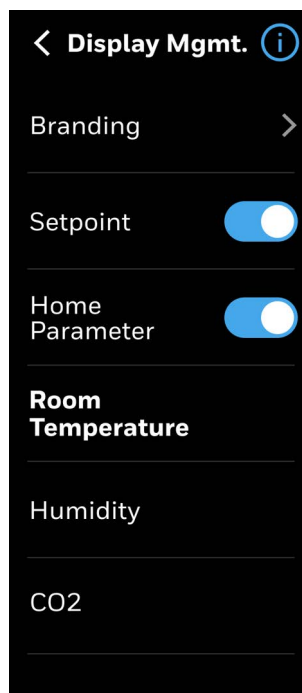


Fig 101. Display Management

- Step 5. The Branding screen appears, select the Branding from the list. Tap  to return Home screen to view the selected branding

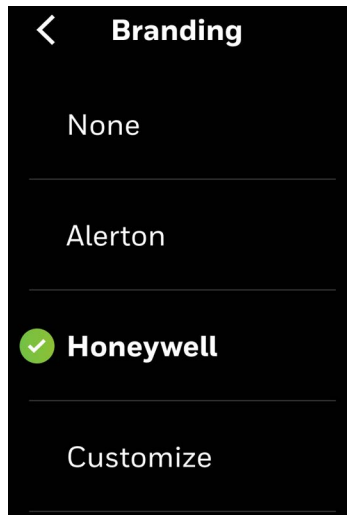


Fig 102. Branding Screen

- Step 6. The branding will appear on the Home screen.



Fig 103. Home Screen

Note: There are more additional options under Brand Configuration are: **“None”, “Alerton” and “Customize”**, the examples are shown below:-

- Step 1. From the Branding list, select **None**.
Tap  to return Home screen.

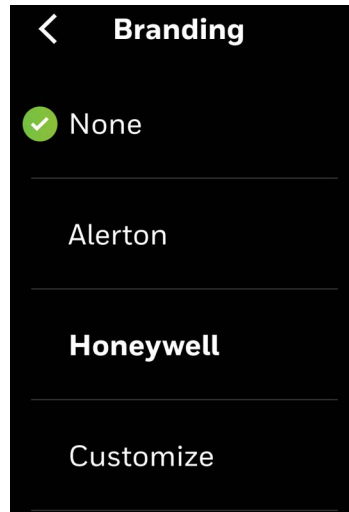


Fig 104. Branding Screen

- Step 2. The Home screen will show no branding.



Fig 105. Home Screen

For Alerton branding:

- Step 1. From the Branding list, select **Alerton**.
Tap  to return Home screen.

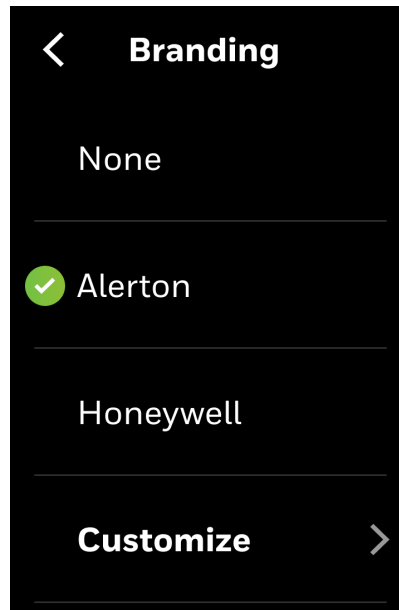


Fig 106. Branding Screen

- Step 2. The **Alerton** branding appears on Home screen.



Fig 107. Home Screen

The **“Customize”** includes the option to modify the branding as desired.

Step 1. From the Branding list, select **“Customize”** to modify the branding.

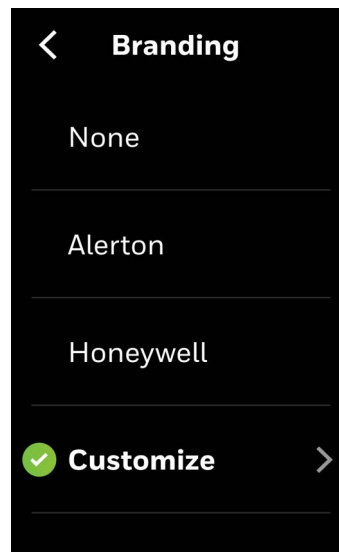


Fig 108. Branding Screen

Note: A maximum of 10 characters is allowed for customizing the branding.
If it exceeds 10 characters, input will not be accepted.

Step 2. The **“Customize”** screen appears.
Here the default branding is **“Customize”**
Click **Input box**, and rename the branding as desired.
If the input box is empty, the **“OK”** option will be disabled.
For example:- Click **Input box** and rename it **“HON”** and then click **“OK”** .

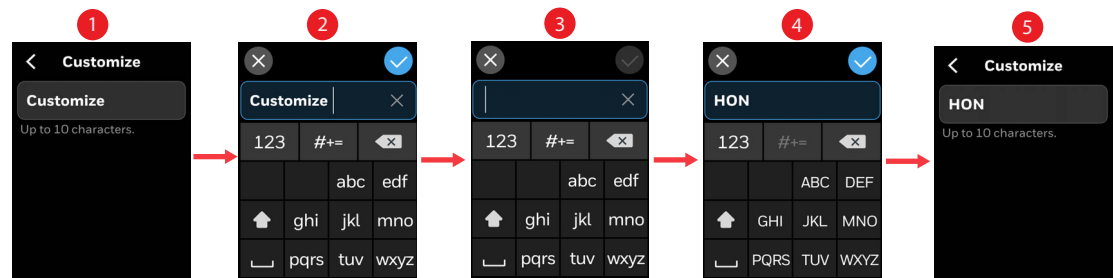


Fig 109. Customize Screen

- Step 3. Customize is shown still in the branding list.
Select "**Customize**" and return to Home Screen.

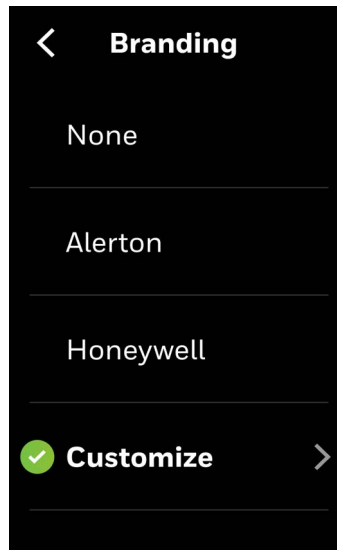


Fig 110. Branding List

- Step 4. The "**HON**" branding appears on Home screen.



Fig 111. Home Screen

Home Display Configuration

Home Display Configuration includes option to choose the parameter or setpoint, that will be displaying on home screen either Temperature, Humidity, CO2 or Setpoint.

Below steps to select Parameter and Setpoint to appear on Home screen are as follow:

Step 1. Swipe Left from the home screen.

Step 2. On the Quick access screen, tap 

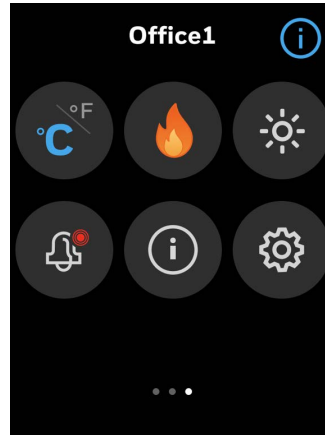


Fig 112. Right Screen

Step 3. The Configuration screen appears, select **Display Management**.

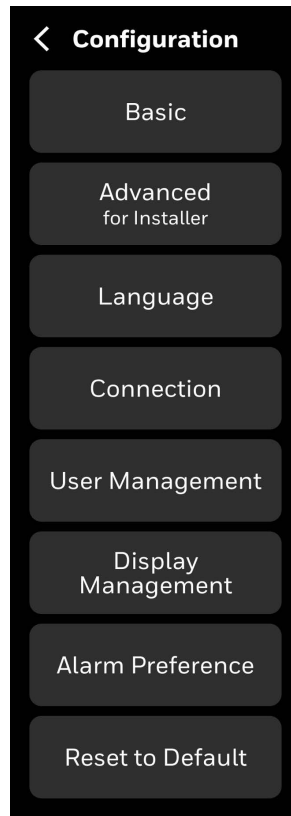


Fig 113. Configuration Screen

Step 4. The **Display Management** screen appears, **Setpoint** and **Home parameter** are enabled by default . Select **Room Temperature** and Tap back “<” button to return Home screen.

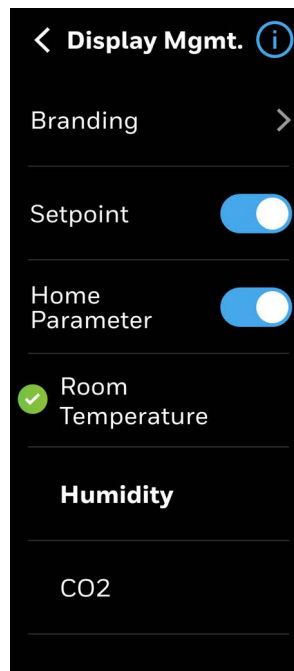


Fig 114. Display Management

Step 5. **Temperature** and **Setpoint** appears on Home screen.



Fig 115. Temperature Parameter Home Screen

Follow the above same steps to select the parameter as desired,

For humidity parameter:

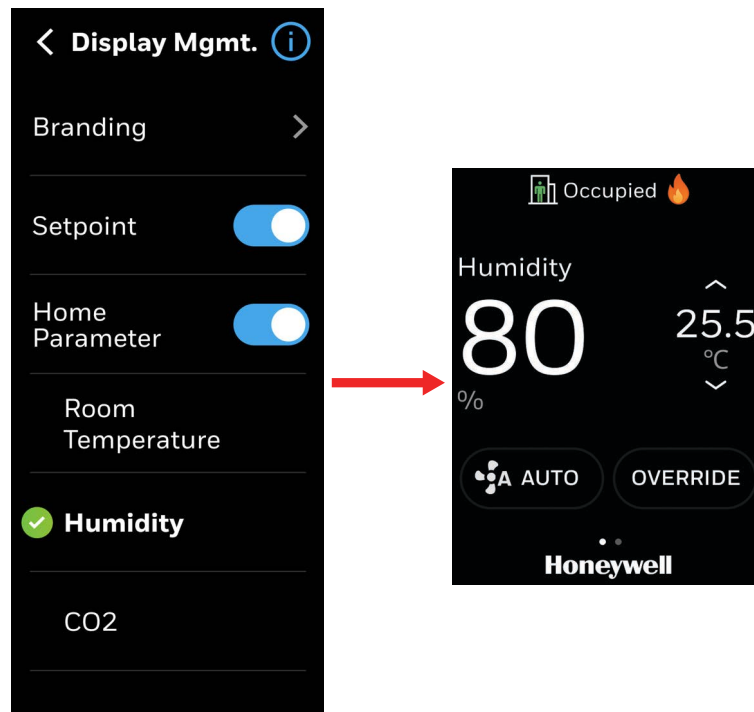


Fig 116. Humidity Parameter Home Screen

For CO2 Parameter:

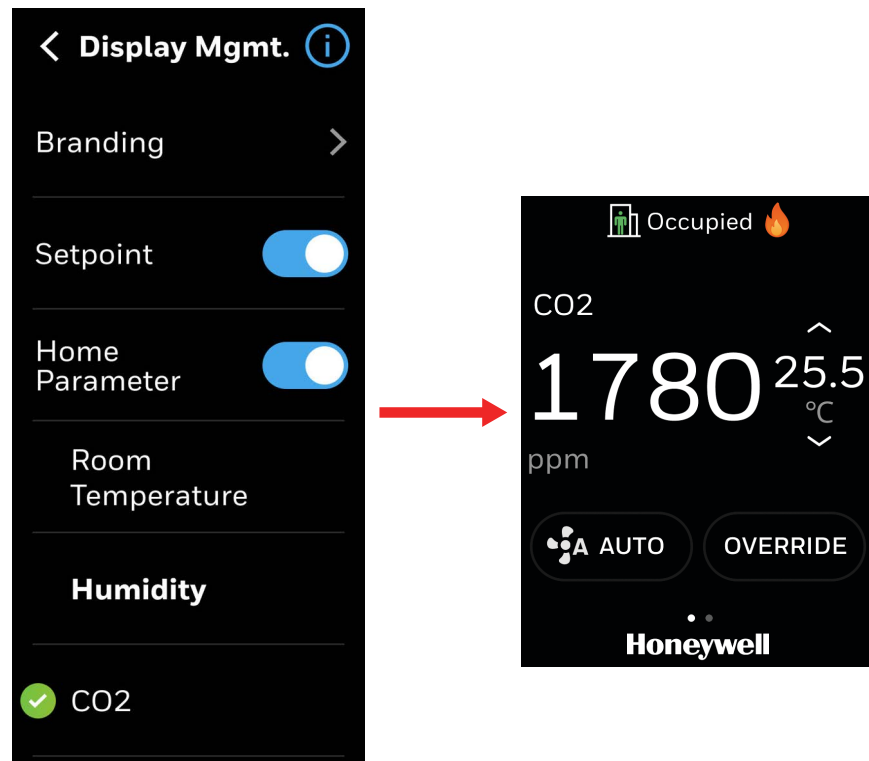


Fig 117. CO2 Parameter Home Screen

To view only Parameter on the Home screen,
Here, Disable the **Setpoint** .

For only Temperature Parameter:

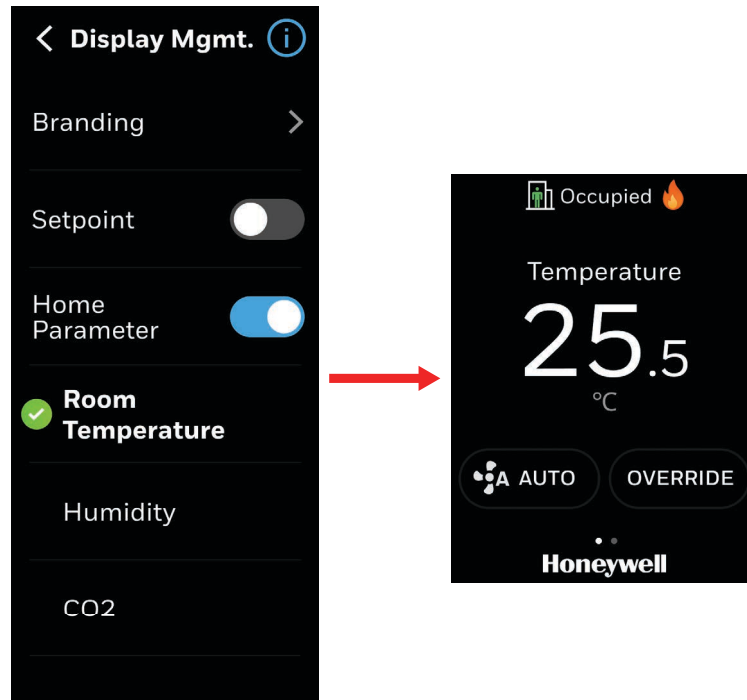


Fig 118. Only Temperature Parameter Home Screen

For only Humidity Parameter:

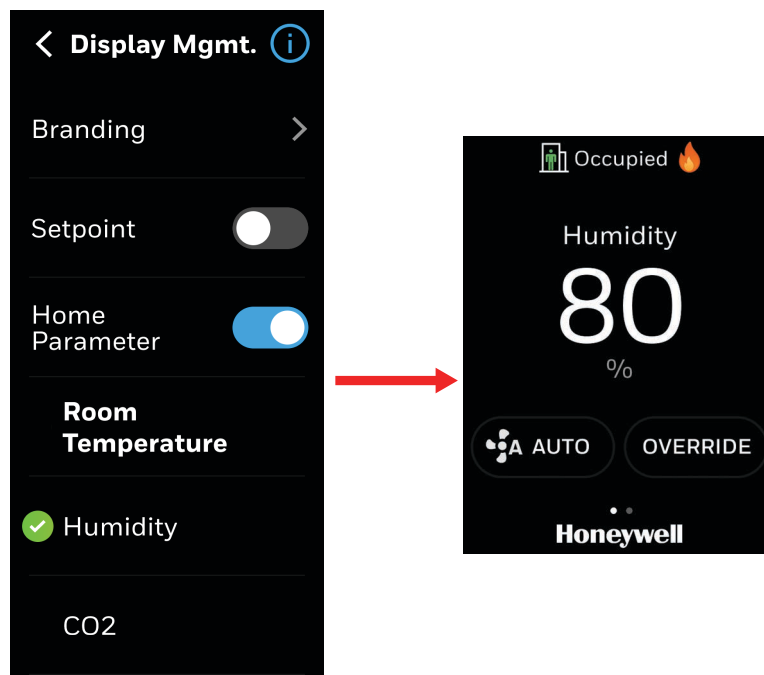


Fig 119. Only Humidity Parameter Home Screen

For Only CO2 Parameter:

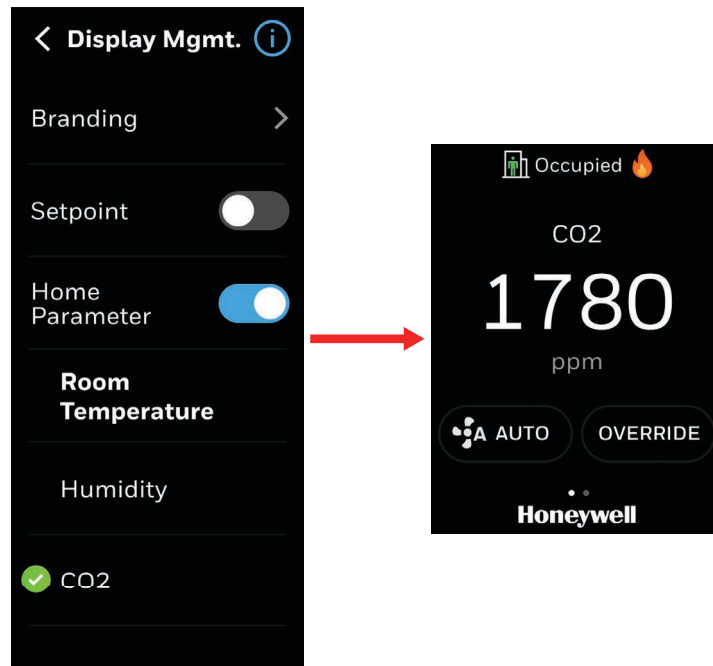


Fig 120. Only CO2 Parameter Home Screen

To view only **Setpoint** on the Home screen,

Disable the **Home Parameter** ,

Enable the **Setpoint** .

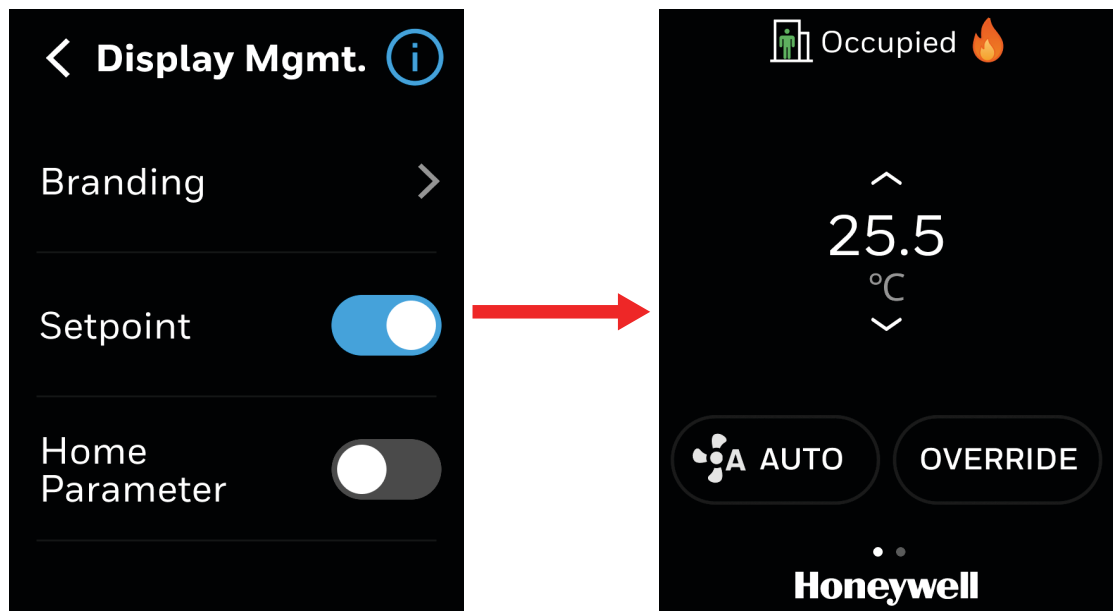


Fig 121. Home Screen

If Both **Setpoint** and **Home Parameter** option are disabled,
Then Home screen will appear as blank.

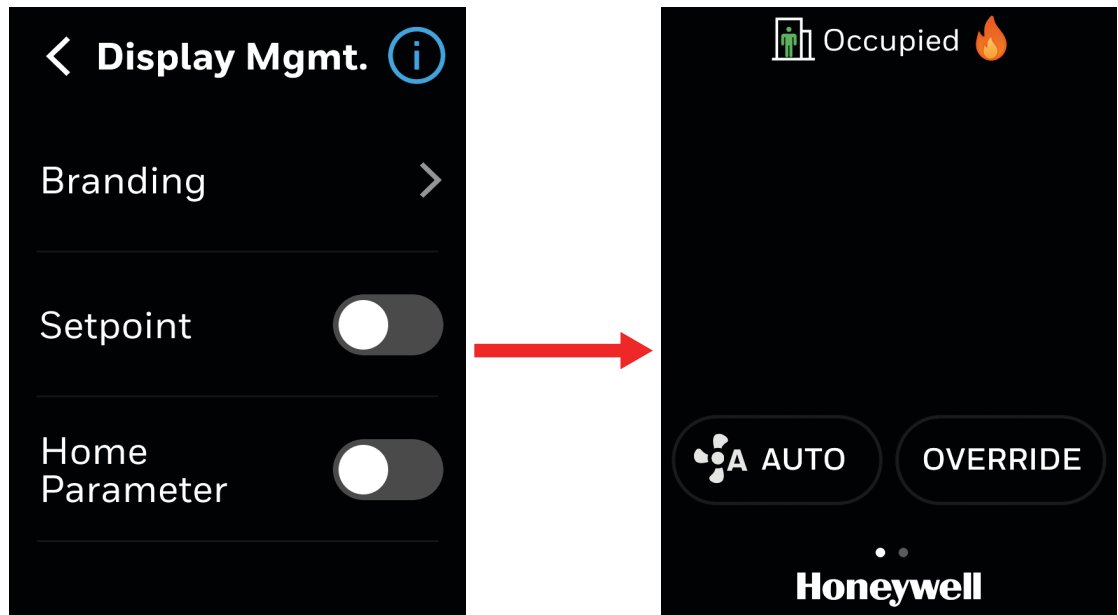


Fig 122. Home Screen

Reset to default

User can reset the entire wall module to the factory default.

To reset the factory default setting:

- Step 1. Swipe left from the home screen.
- Step 2. On the Quick access screen, tap  > **Reset To Default**. The Reset to Default screen appears.

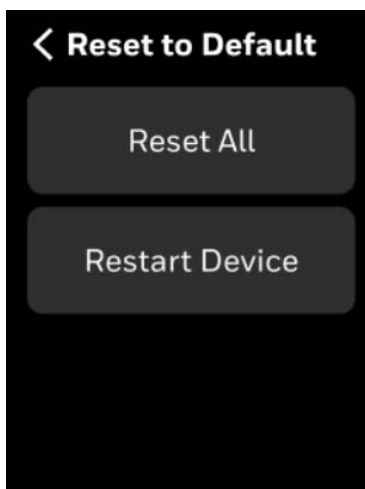


Fig 123. Reset to Default

- Step 3. Tap **Reset All** to fully reset the wall module. It deletes all the configurations and user data.

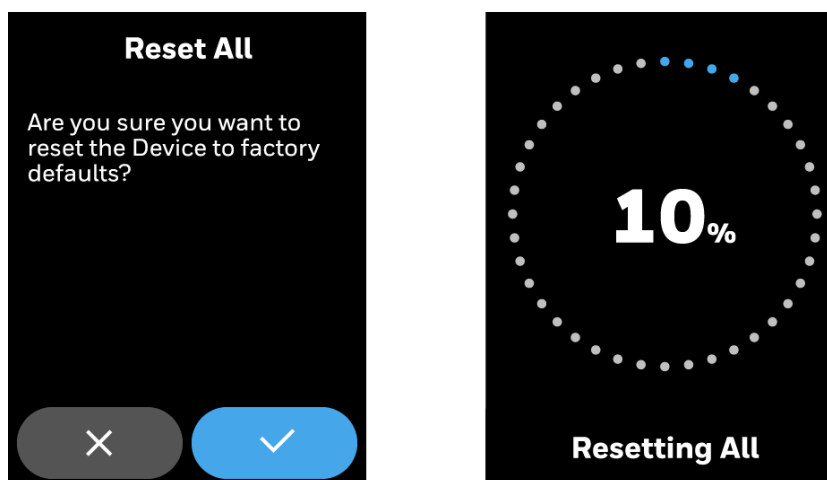


Fig 124. Reset All

To Restart Device:

Step 1. Tap **Restart Device** to restart the device without deleting any data.

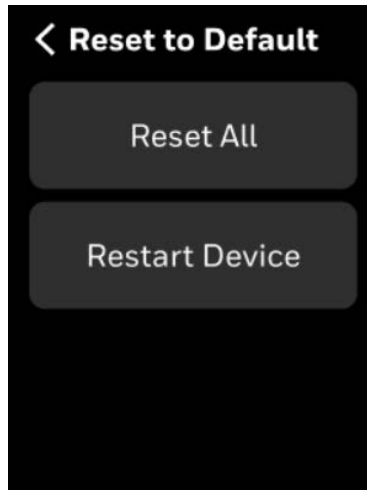


Fig 125. Reset to Default

Step 2. Click tick button .

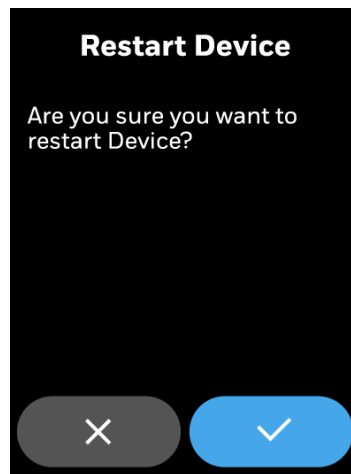


Fig 126. Restart Device

Alarms

In Honeywell TR100 Modbus/BACnet Wall Module, alarms are configured for predefined set values. When the values are breached, the alarms are triggered and displayed on the home screen as banner notification, dot notification on the Alarm button. You can view the triggered alarms and acknowledge them.

Alarm notification signs

The alarm menu notification icon has two color codes to indicate the severity of the alarm. The following table describes the available signs with color codes of the alarm screens.

Table 13. Alarm signs

Icons	Description
	High
	Medium

Alarm Notification

The alarms can be configured as banner notification or dot notification as per the alarm configuration. The banner notification is pop-up on the home screen whereas the dot notification appears beside the alarm.

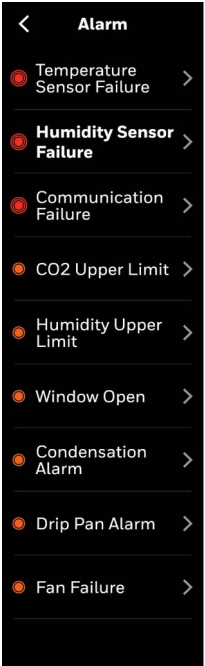


Fig 127. Alarm notifications

You can tap the banner notification to view the alarm and acknowledge it. If multiple alarms are triggered, then the latest one (high) will be displayed on the home screen. After tapping the banner, it takes you to the **Alarm** screen.

- High - Red color banner
- Medium - Orange color banner

Alarm Preference

To configure alarm preference

1. Swipe left from the home screen.
2. On the Quick access screen, tap  > Alarm Preference.
The Alarm Preference screen appears.

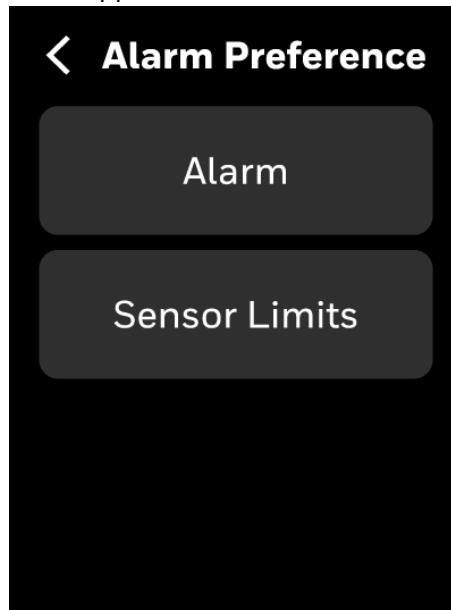


Fig 128. Alarm Preference

3. Tap Alarm.
A list of alarm types appears.

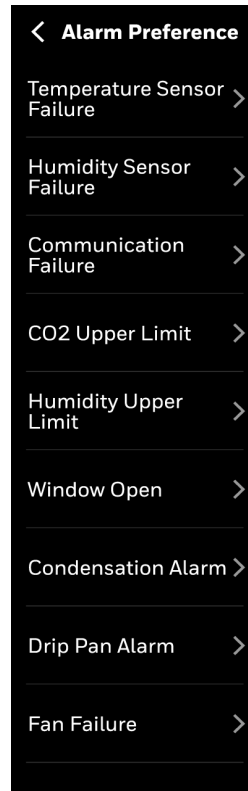


Fig 129. Alarm Types

4. Toggle the Allow Banner Notification to on to get the banner notification of this type of alarm on the home screen.

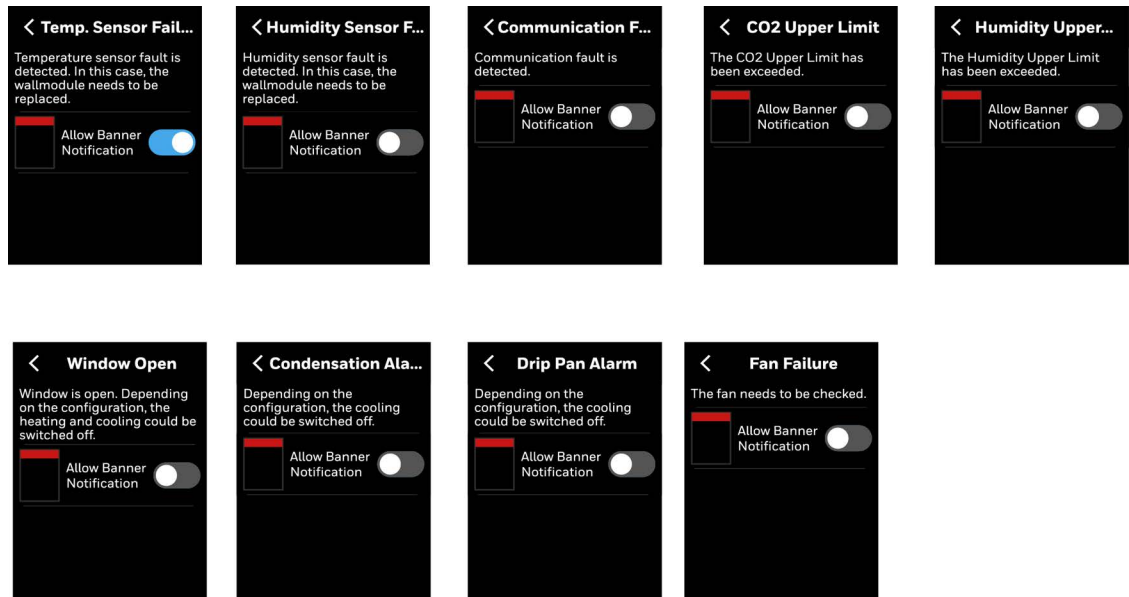


Fig 130. Alarm configuration screen

Note: Dot notification of alarm is default. The dot will appear on Alarm bell icon on the home screen and Quick Access screen.

To configure alarm limits

1. On the Alarm Preference screen, tap Sensor Limits.
The Sensor Limits screen appears.

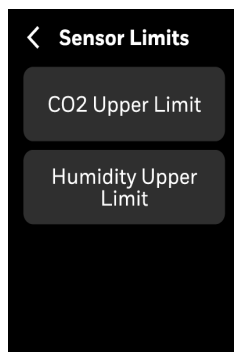


Fig 131. Alarm Limits

2. Toggle on **CO2 Upper Limits** to set the limits for CO2, when its break, alarm will be raised.

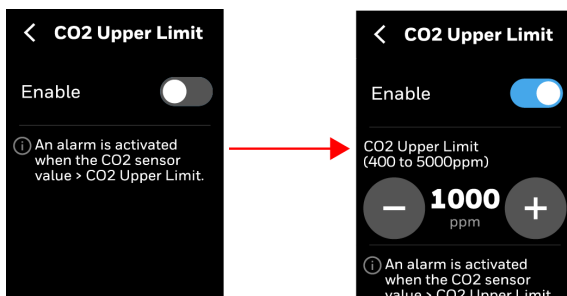


Fig 132. CO2 Limits

3. Toggle on **Humidity Upper Limits** to set the limits for Humidity, when its break, alarm will be raised.

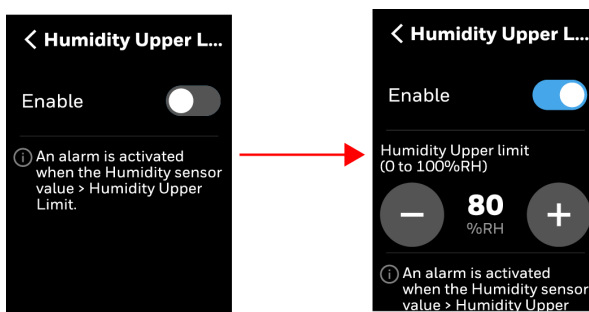


Fig 133. Humidity Limits

List of alarms and their severity

The list of alarms in the Commercial Connected wall modules are as follows:

Alarms	Severity
Temperature Sensor Failure	High
Humidity Sensor Failure	High
Communication Failure	High
CO2 Upper limit	Medium
Humidity Upper limit	Medium
Window Open	Medium
Consideration Alarm	Medium
Drip Pan Alarm	Medium
Fan Failure	Medium

TR100 Display and LED Ring Properties Mode

Table 14. TR100 LED Ring and LCD Behavior

User Role	System Status	Inactive Display	LED Ring Status	LCD Display Time out	Notes
Visitor Basic user Admin Installer (Just select installer)	Not available	Display Off	OFF	LCD from on to dim: 10 seconds	
				LCD from on to off: 60 seconds	
				Back to home screen: 65 seconds	
		Display Dim	OFF	LCD from on to dim: 10 seconds	
				LCD from on to dim: 60 seconds	
				Back to home screen: 65 seconds	
	Cool/Heat & Cooling/ Heating call is inactive (It means slow breathing)	Display Off	Dim	LCD from on to dim: 10 seconds	Orange for heating. Blue for cooling. TR100 led breathe ring contains two modes, fast breathing and slow breathing, the default is slow breathing. The cycles of slow breathing and fast breathing are 15s and 7.5s respectively.
			Breathe ring - slow	LCD from on to off: 60 seconds	
			Breathe ring - slow	Back to home screen: 65 seconds	
		Always On	Dim	LCD from on to dim: 10 seconds	Orange for heating. Blue for cooling. TR100 led breathe ring contains two modes, fast breathing and slow breathing, the default is slow breathing. The cycles of slow breathing and fast breathing are 15s and 7.5s respectively.
			Breathe ring - slow	LCD from on to dim: 60 seconds	
			Breathe ring - slow	Back to home screen: 65 seconds	
		Always Off	OFF	LCD from on to dim: 10 seconds	
			OFF	LCD from on to off: 60 seconds	
			OFF	Back to home screen: 65 seconds	

User Role	System Status	Inactive Display	LED Ring Status	LCD Display Time out	Notes
Visitor Basic user Admin Installer (Just select installer)	Cool/Heat & Cooling/ Heating call is active (It means fast breathing)	Display Off	Dim	LCD from on to dim: 10 seconds	Orange for heating. Blue for cooling.
			Breathe ring - fast	LCD from on to off: 60 seconds	TR100 led breathe ring contains two modes, fast breathing and slow breathing, the default is slow breathing. The cycles of slow breathing and fast breathing are 15s and 7.5s respectively.
			Breathe ring - fast	Back to home screen: 65 seconds	
		Always On	Dim	LCD from on to dim: 10 seconds	Orange for heating. Blue for cooling.
			Breathe ring - fast	LCD from on to dim: 60 seconds	TR100 led breathe ring contains two modes, fast breathing and slow breathing, the default is slow breathing. The cycles of slow breathing and fast breathing are 15s and 7.5s respectively.
			Breathe ring - fast	Back to home screen: 65 seconds	
		Always Off	OFF	LCD from on to dim: 10 seconds	
			OFF	LCD from on to off: 60 seconds	
			OFF	Back to home screen: 65 seconds	
(Installer Enhancement means selecting more than just installer in user management, and installer input installer passcode)	Not available	Display Off	OFF	LCD from on to dim: 10 seconds	Orange for heating. Blue for cooling.
				LCD from on to off: 900 seconds	TR100 led breathe ring contains two modes, fast breathing and slow breathing, the default is slow breathing. The cycles of slow breathing and fast breathing are 15s and 7.5s respectively.
				Back to home screen: 900 seconds	
		Display Dim	OFF	LCD from on to dim: 10 seconds	
				LCD from on to dim: 900 seconds	
				Back to home screen: 900 seconds	

User Role	System Status	Inactive Display	LED Ring Status	LCD Display Time out	Notes
(Installer Enhancement means selecting more than just installer in user management, and installer input installer passcode)	Cool/Heat & Cooling/ Heating call is inactive (It means slow breathing)	Display Off	Dim	LCD from on to dim: 10 seconds	Orange for heating. Blue for cooling.
			Breathe ring - slow	LCD from on to off: 900 seconds	TR100 led breathe ring contains two modes, fast breathing and slow breathing, the default is slow breathing. The cycles of slow breathing and fast breathing are 15s and 7.5s respectively.
			Breathe ring - slow	Back to home screen: 900 seconds	
		Always On	Dim	LCD from on to dim: 10 seconds	Orange for heating. Blue for cooling.
			Breathe ring - slow	LCD from on to dim0: 900 seconds	TR100 led breathe ring contains two modes, fast breathing and slow breathing, the default is slow breathing. The cycles of slow breathing and fast breathing are 15s and 7.5s respectively.
			Breathe ring - slow	Back to home screen: 900 seconds	
		Always Off	OFF	LCD from on to dim: 10 seconds	
			OFF	LCD from on to off: 900 seconds	
			OFF	Back to home screen: 900 seconds	
	Cool/Heat & Cooling/ Heating call is active (It means fast breathing)	Display Off	Dim	LCD from on to dim: 10 seconds	Orange for heating. Blue for cooling.
			Breathe ring - fast	LCD from on to off: 900 seconds	TR100 led breathe ring contains two modes, fast breathing and slow breathing, the default is slow breathing. The cycles of slow breathing and fast breathing are 15s and 7.5s respectively.
			Breathe ring - fast	Back to home screen: 900 seconds	
		Always On	Dim	LCD from on to dim: 10 seconds	Orange for heating. Blue for cooling.
			Breathe ring - fast	LCD from on to dim: 900 seconds	TR100 led breathe ring contains two modes, fast breathing and slow breathing, the default is slow breathing. The cycles of slow breathing and fast breathing are 15s and 7.5s respectively.
			Breathe ring - fast	Back to home screen: 900 seconds	

User Role	System Status	Inactive Display	LED Ring Status	LCD Display Time out	Notes
		Always Off	OFF	LCD from on to dim: 10 seconds	
			OFF	LCD from on to off: 900 seconds	
			OFF	Back to home screen: 900 seconds	

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