

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 or scrolling through the list 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.

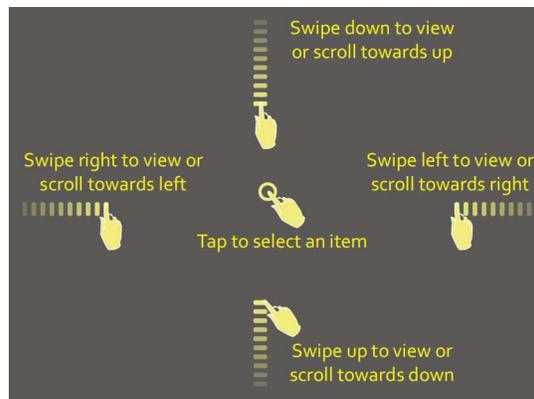


Fig 1. Hand gesture convention

- 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.

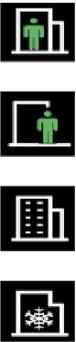
Network Communication Notice

- 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	
	<ul style="list-style-type: none"> • Occupied • Standby • Unoccupied • Frost
Occupancy Status	
	<ul style="list-style-type: none"> • Occupied • Standby • Unoccupied • Frost
Fan modes	
	Fan auto mode
	Fan speed low

Icon	Description
	Fan speed medium
	Fan speed high
	Fan off

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.

TR42 Emulation Overview

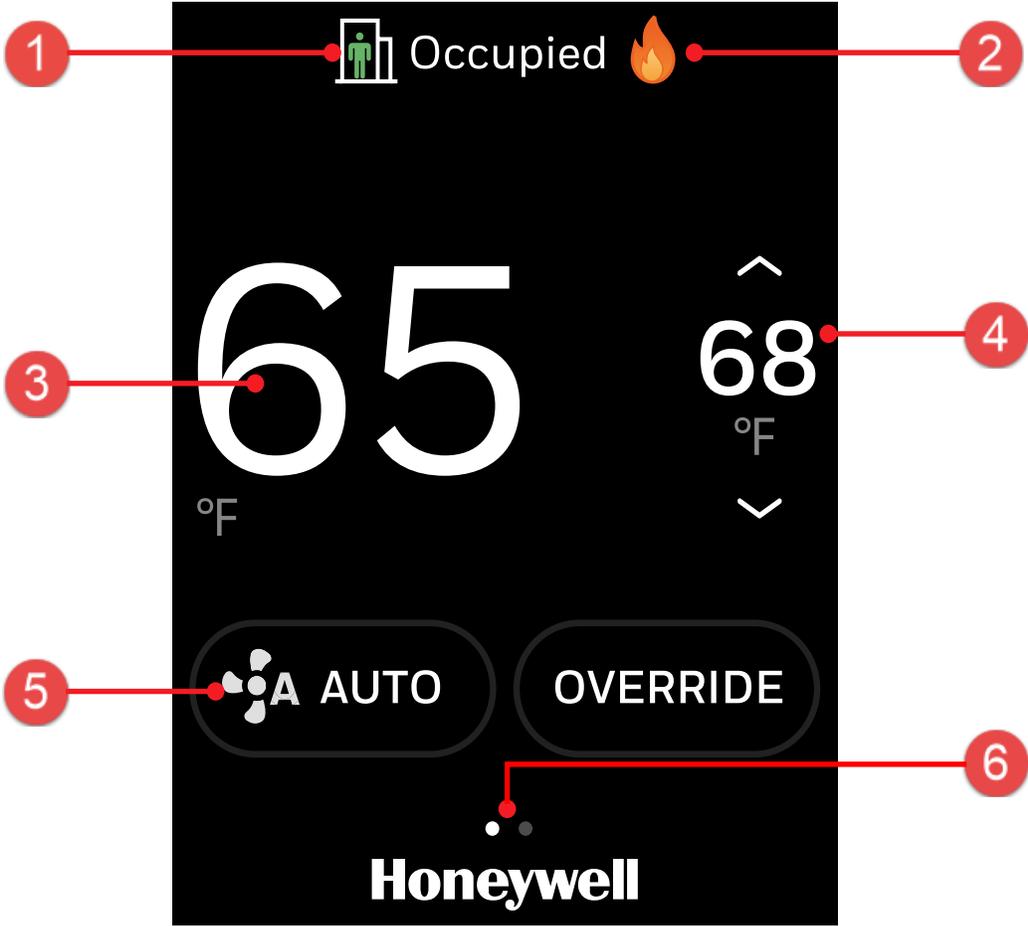
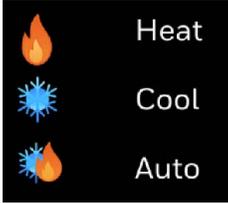


Fig 2. Home screen overview

Table 2. Home screen overview description

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

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

Home Screen

Home (Left Screen):

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

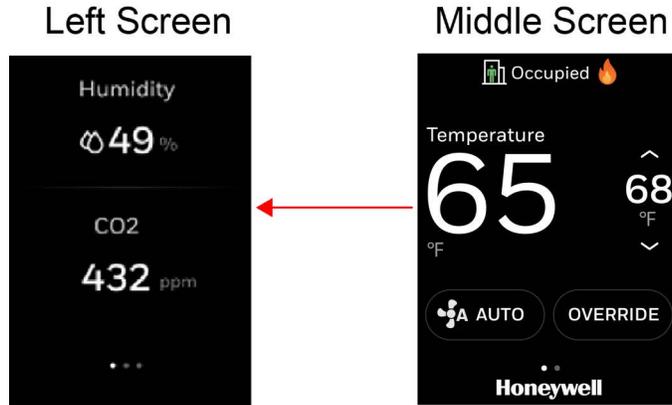


Fig 3. TR42 Emulation Left Screen

Home (Right Screen):

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

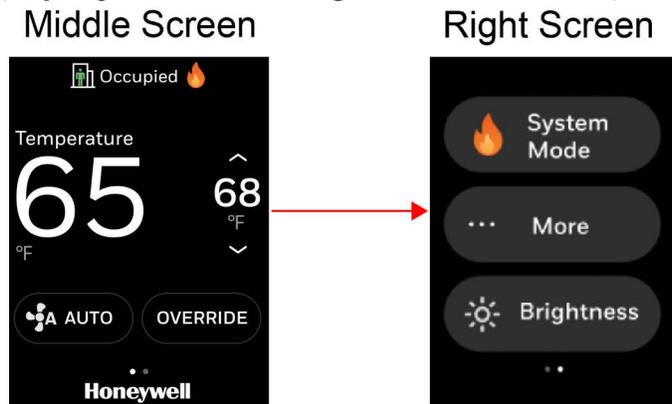


Fig 4. TR42 Emulation Right Screen

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)

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

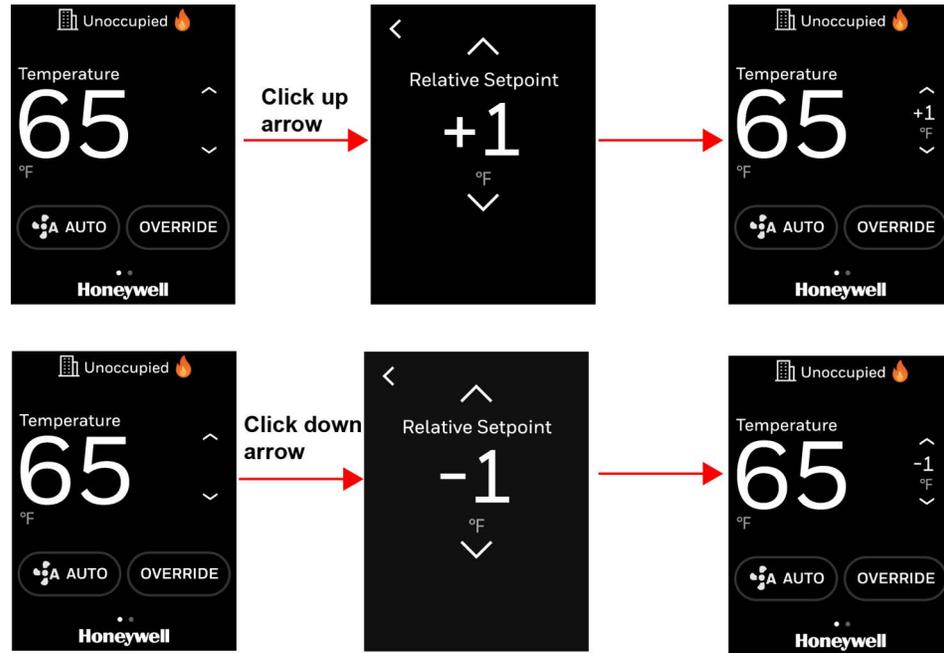


Fig 5. Change Setpoint (Relative Fahrenheit)

Absolute Setpoint (Degree Fahrenheit)

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

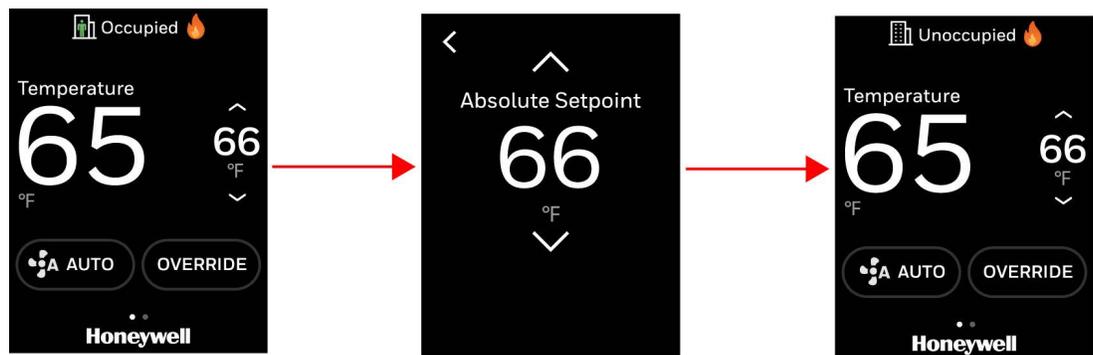


Fig 6. Change Setpoint (Absolute Fahrenheit)

Relative Setpoint (Degree Celsius)

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

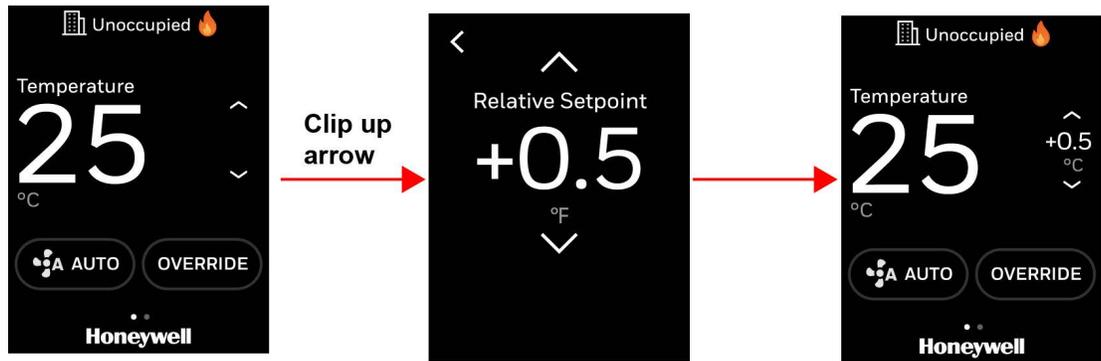


Fig 7. Change Setpoint (Relative Celsius)

Absolute Setpoint (Degree Celsius)

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



Fig 8. 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 9. Change Fan speed

Change Occupancy Mode

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



Fig 10. Occupancy Mode

More options

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

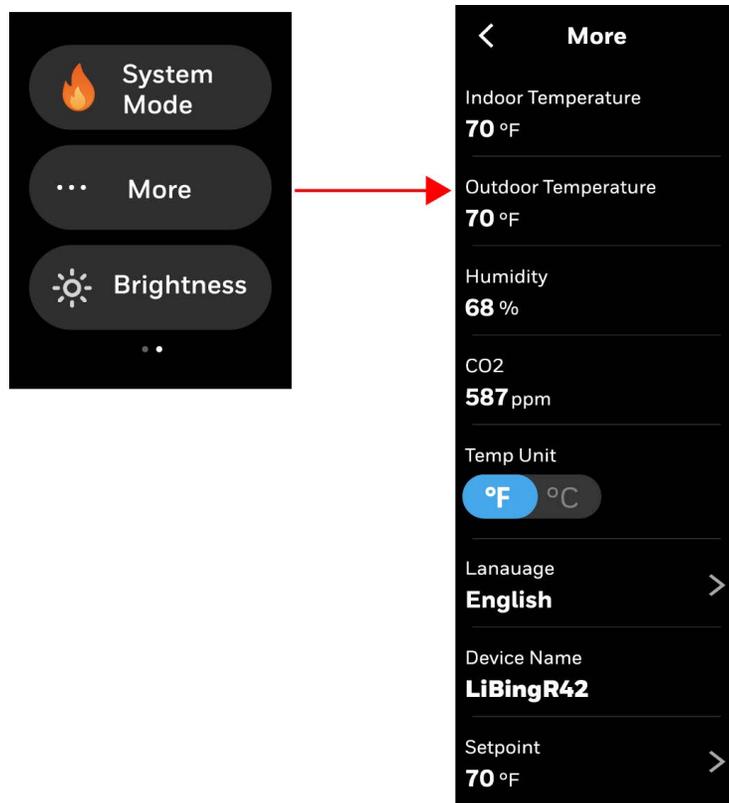


Fig 11. More options

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.

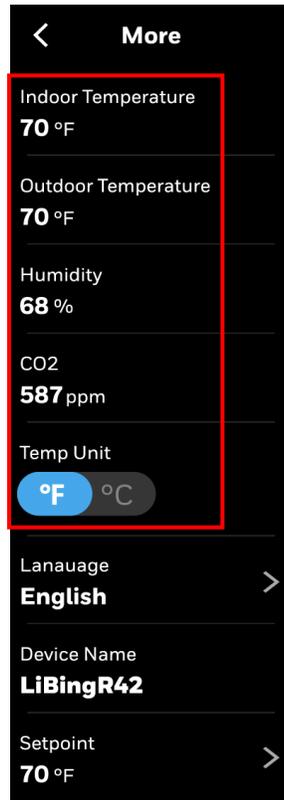


Fig 12. Change temperature units

Change Language:

In more options, user can change the language to international language.

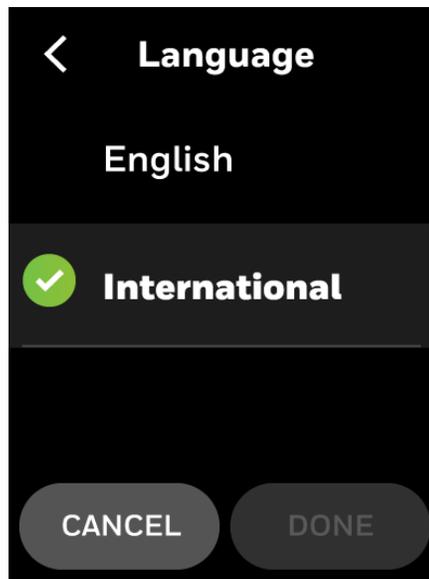


Fig 13. Change Language

TR42 Emulation Display Properties Mode

Table 3. TR42 Emulation Display properties

User Role	Display	Display Brightness	Time out
Tenant	Dim	10 %	10 seconds
	Display turns off	0 %	60 seconds
	Back to home screen		65 seconds
Contractor Mode	Dim	10 %	10 Seconds
	Display turns off	0 %	900 Seconds
	Exit contractor mode 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.
- Viewing and Modifying the Controller Schedule.

TR75 Emulation Overview

Home screen overview (Single Parameter)

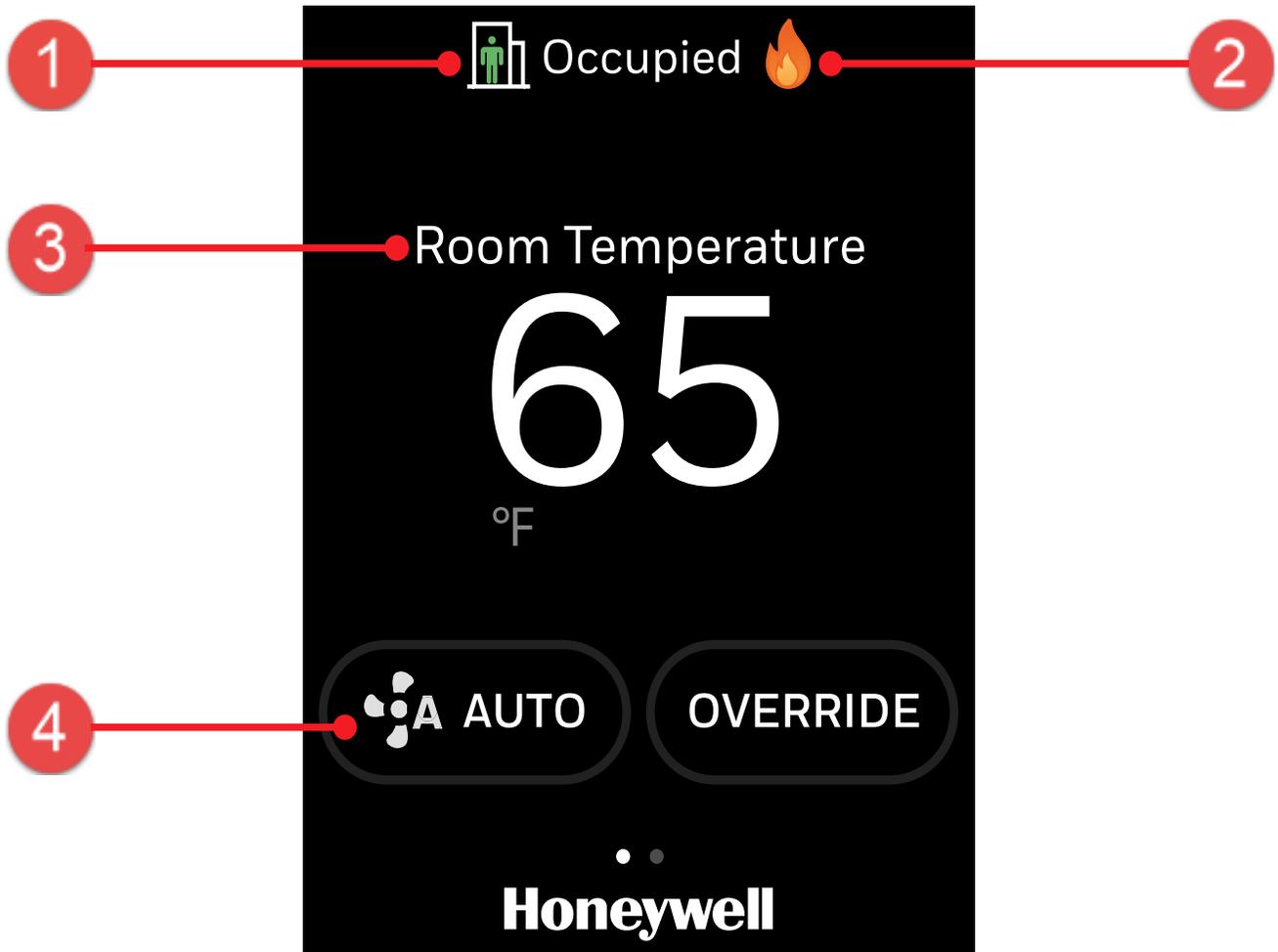
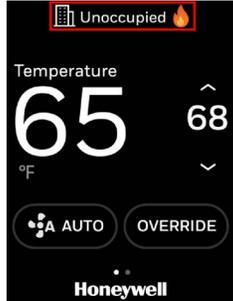
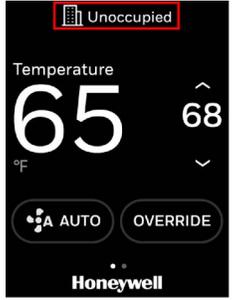


Fig 14. Home screen overview

Table 4. Home screen overview description (Single Parameter)

Item	Description
1	<p>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 System Mode (Heating and Cooling).</p>  <p>Scenario 2: Only Occupancy Mode (Unoccupied).</p>  <p>Scenario 3: Only System mode (Heating and Cooling).</p>  <p>Scenario 4: Both Occupancy Mode and System Mode invisible.</p> 

Item	Description
2	<p>System Mode: Orange flame for heat mode, blue snowflake for cool mode.</p>  <p>The menu shows the following options:</p> <ul style="list-style-type: none"> Heat (Orange flame icon) Cool (Blue snowflake icon) Auto (Orange flame and blue snowflake icon) Off (OFF text) Fan Only (Wavy lines icon) Em heat (EM. and orange flame icon)
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)

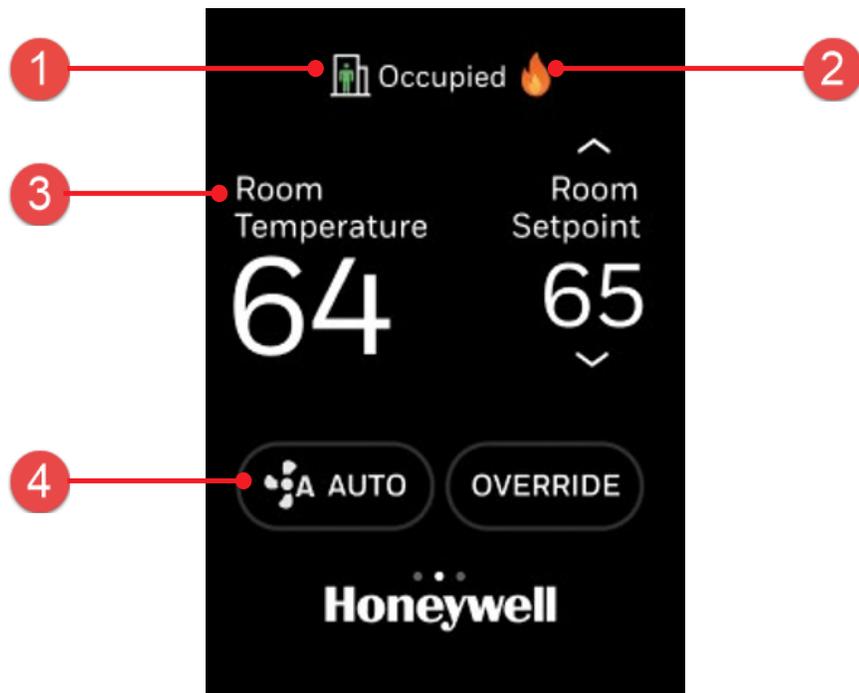


Fig 15. Multiple parameters

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.

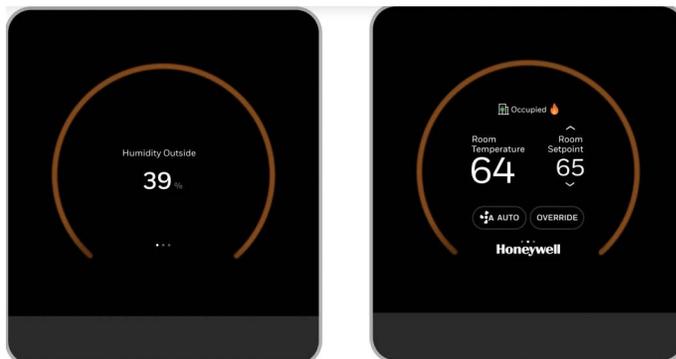


Fig 16. Multiple Parameter type of Home Screen

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.

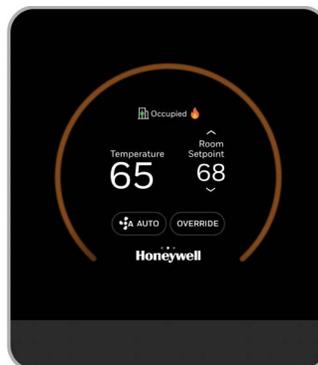


Fig 17. Middle Home Screen

Single Parameter type of Home Screen:

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

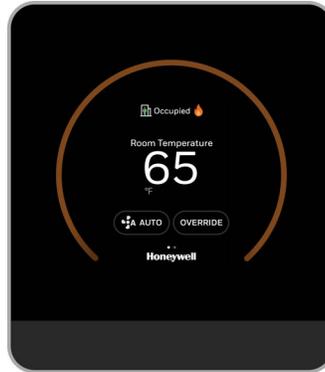


Fig 18. Single Parameter type of Home Screen

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)

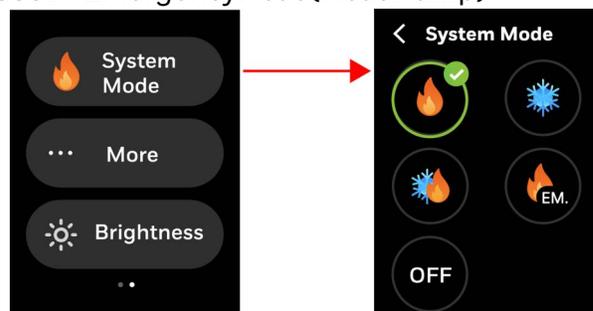


Fig 19. Change System mode

Change Fan speed

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

2 State (Auto, On):

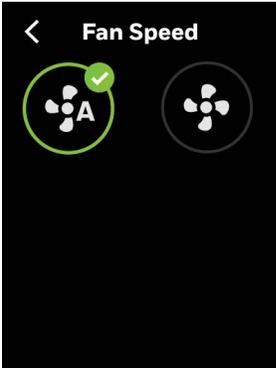


Fig 20. 2 state type fan

3 State (Auto, On, Off):

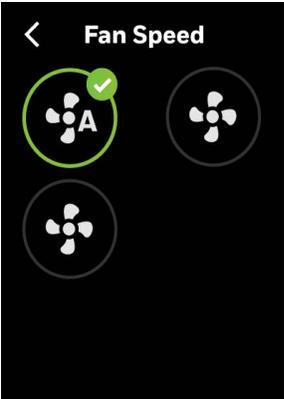


Fig 21. 3 state type fan

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

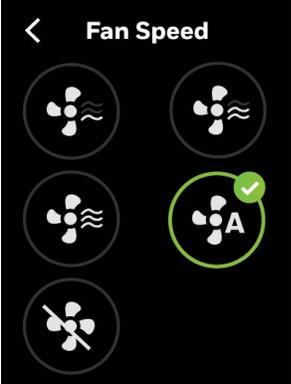


Fig 22. 5 state type fan

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).

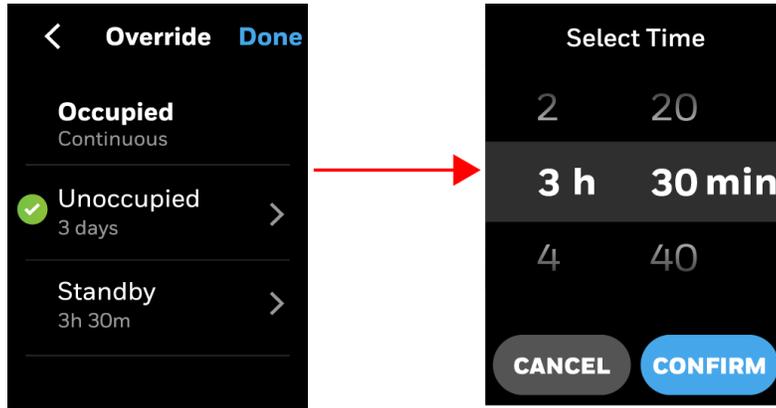


Fig 23. Occupancy Mode

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.

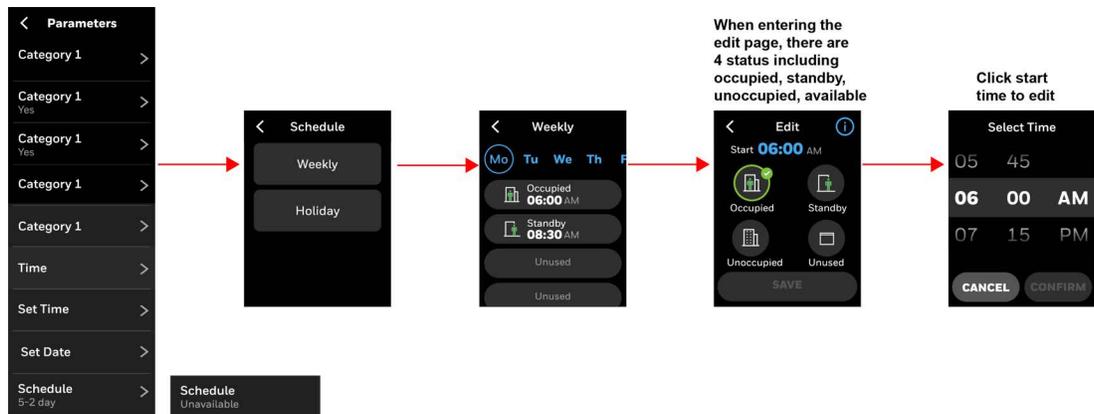


Fig 24. 8-day schedule

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

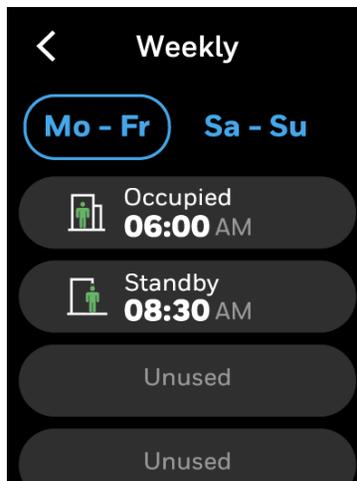


Fig 25. 5-2 Schedule

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.

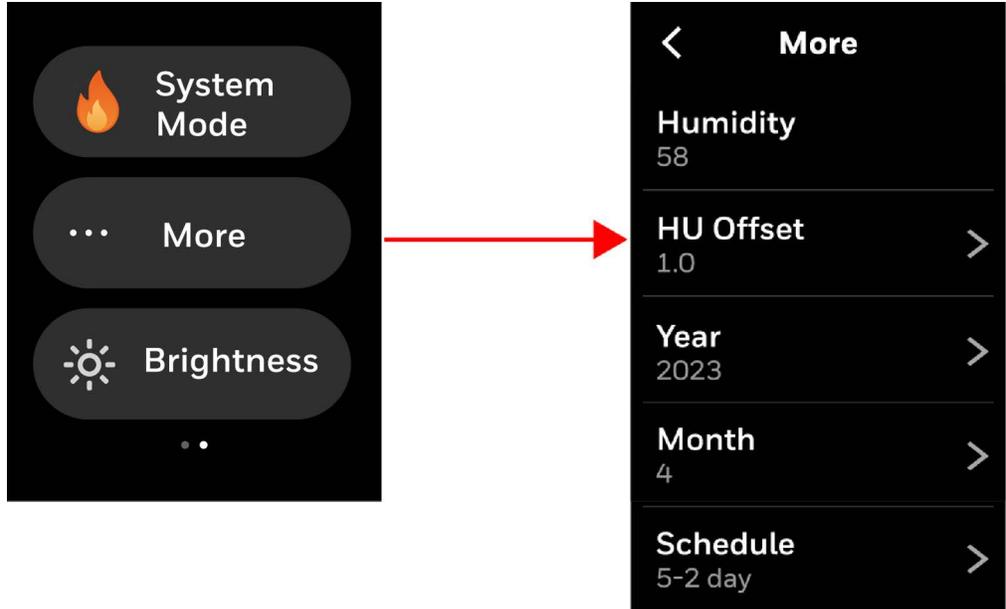


Fig 26. More menu

TR75 Emulation Display and LED Ring Properties Mode

Table 6. TR75 Emulation Display and LED Ring properties

User Role	Display	LED Ring	Time out	Notes
Tenant	Dim	OFF	10 seconds	If TR75 cannot get system status from the controller, the LED ring is always off.
	Display turns off		60 seconds	
	Back to home screen		65 seconds	
	Dim	Dim	10 seconds	If TR75 can get system status from the controller, the LED ring will be on if display is off. Orange for heating, Blue for cooling.
	Display turns off	ON	60 seconds	
	Back to home screen	ON	65 seconds	
Contractor Mode	Dim	OFF	10 Seconds	If TR75 cannot get system status from the controller, the LED ring is always off.
	Display turns off		900 Seconds	
	Exit contractor mode Back to home screen		900 Seconds	
	Dim	Dim	10 Seconds	If TR75 cannot get system status from the controller, the LED ring is always off.
	Display turns off	ON	900 Seconds	
	Exit contractor mode Back to home screen	ON	900 Seconds	

Home screen Overview

The home screen overview of TR100 is shown below:

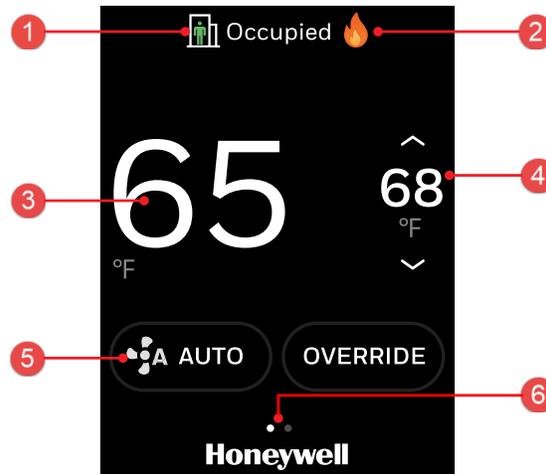


Fig 27. Home screen overview

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: Displays the current indoor temperature.
4	Setpoints: Shows 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.

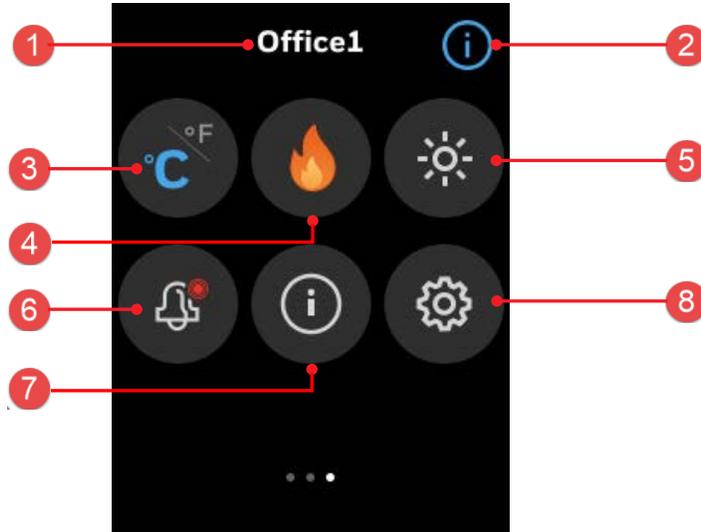


Fig 28. Right Screen

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.

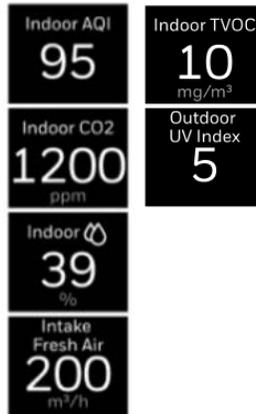


Fig 29. Left screen

Table 9. Typical ambiance screen

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

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:

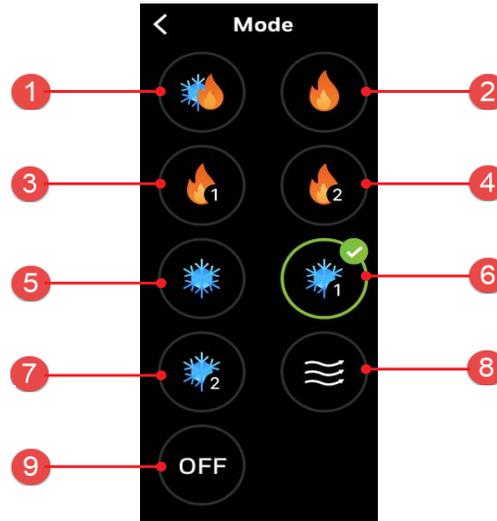


Fig 30. System Modes

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.

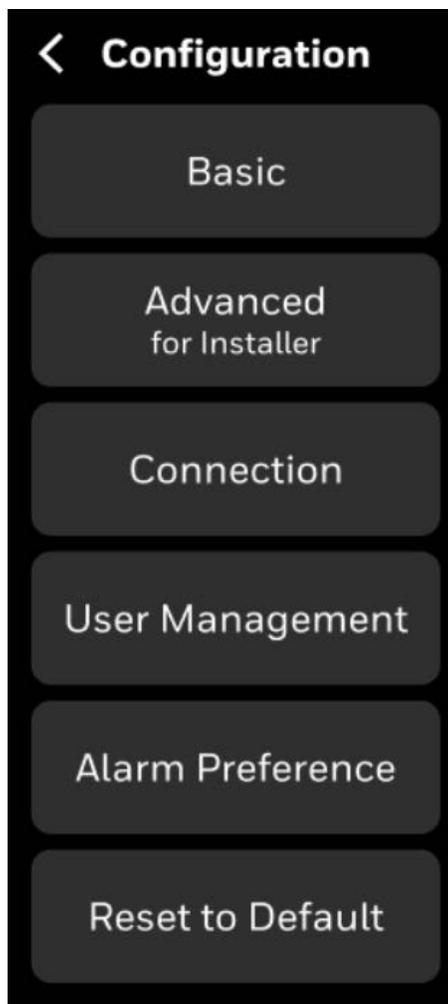


Fig 31. Configuration Screen

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.

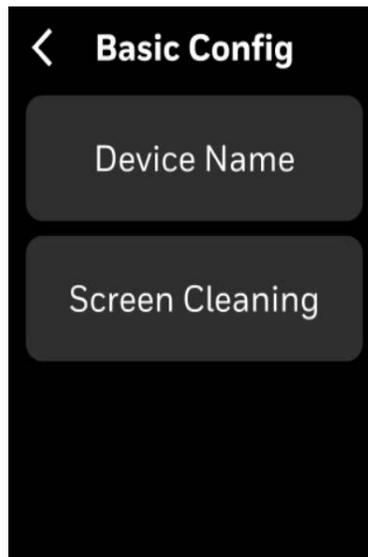


Fig 32. Basic Configuration

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.

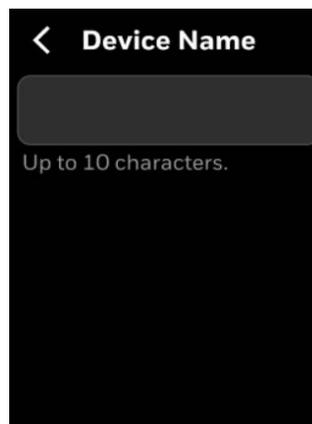


Fig 33. Device Name

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.

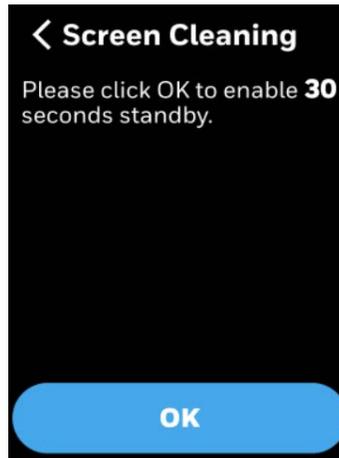


Fig 34. Screen Cleaning

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 35. Cleaning

Advanced Configuration

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



Fig 36. 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** > **Sensor Offset**.
The Sensor Offset screen appears.

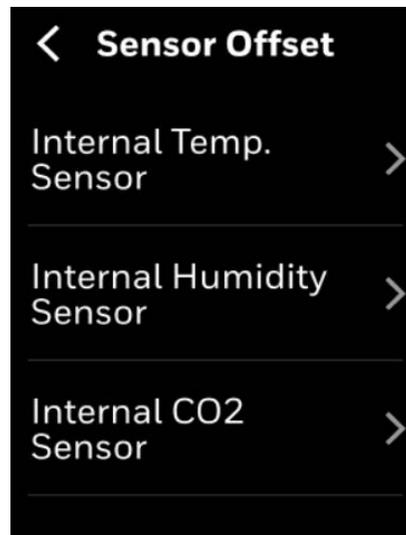


Fig 37. Sensor Offset

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

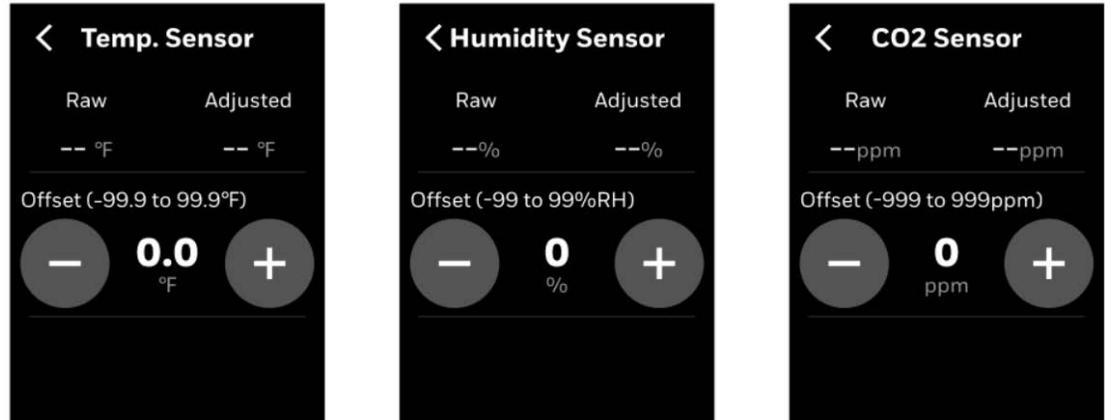


Fig 38. Offset Sensor Screens

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.

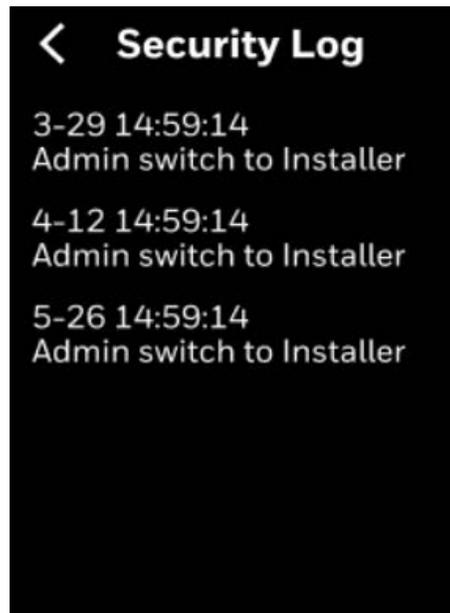


Fig 39. Security Log

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.

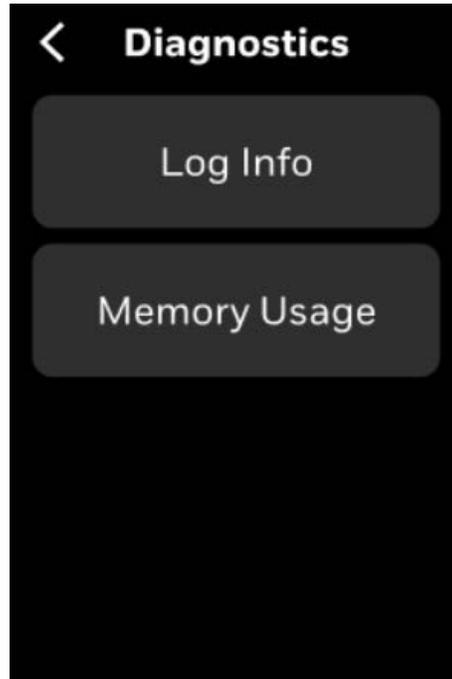


Fig 40. Diagnostics

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

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.

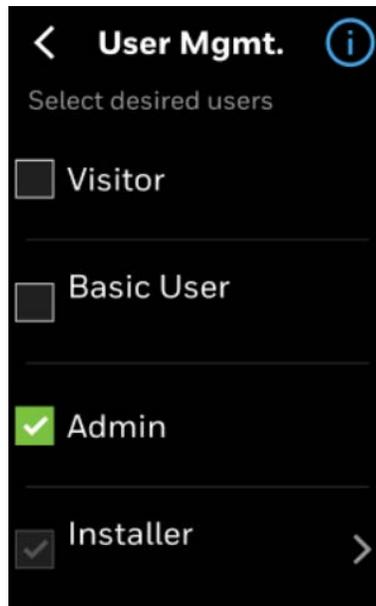


Fig 41. User Management Screen

Visitor

To view the Visitor user role:

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

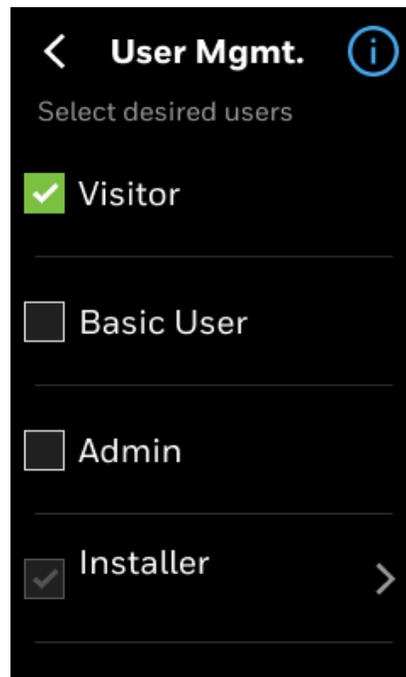


Fig 42. User Management (Visitor)

The Visitor Screen displays the temperature setpoints and other values.

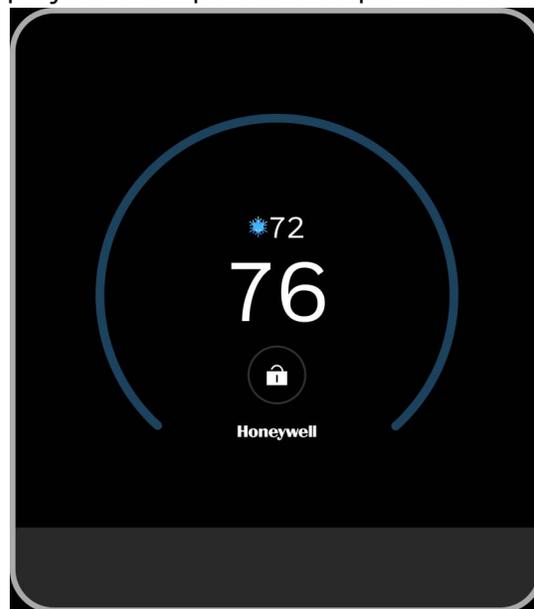


Fig 43. Visitor Screen

Basic User

To manage the Basic User role:

1. On the User Management screen, select Basic User, and tap “>”
The Basic User screen appears.

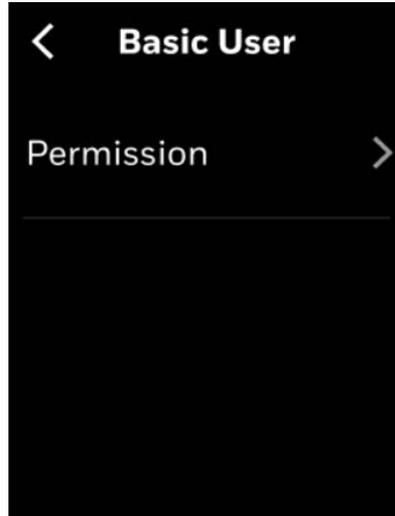


Fig 44. Basic User Screen

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

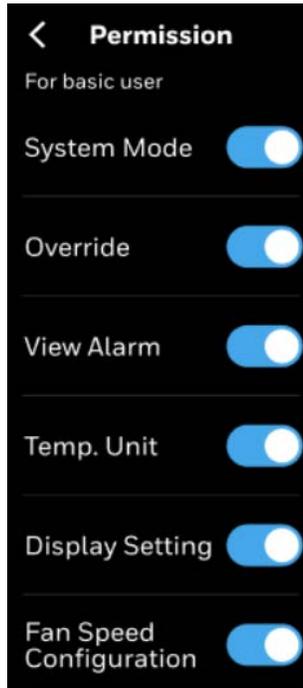


Fig 45. Permission

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.

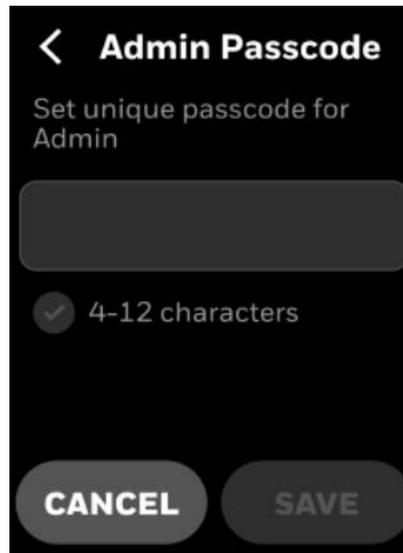


Fig 46. Admin Passcode

Installer

To manage the Installer user role:

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

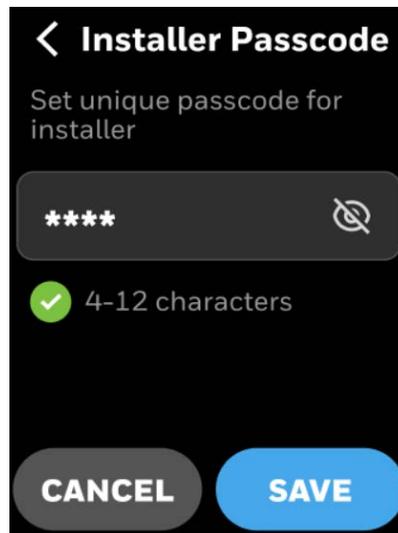


Fig 47. Installer

Reset to default

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

To reset the factory default setting:

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

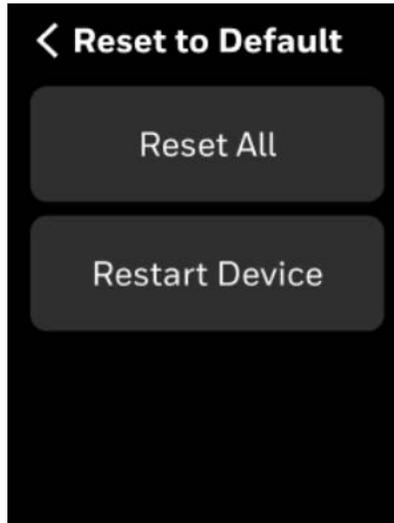


Fig 48. Reset to Default

3. Tap **Reset All** to fully reset the wall module. It deletes all the configurations and user data.
4. Tap **Restart Device** to restart the device without deleting any data.

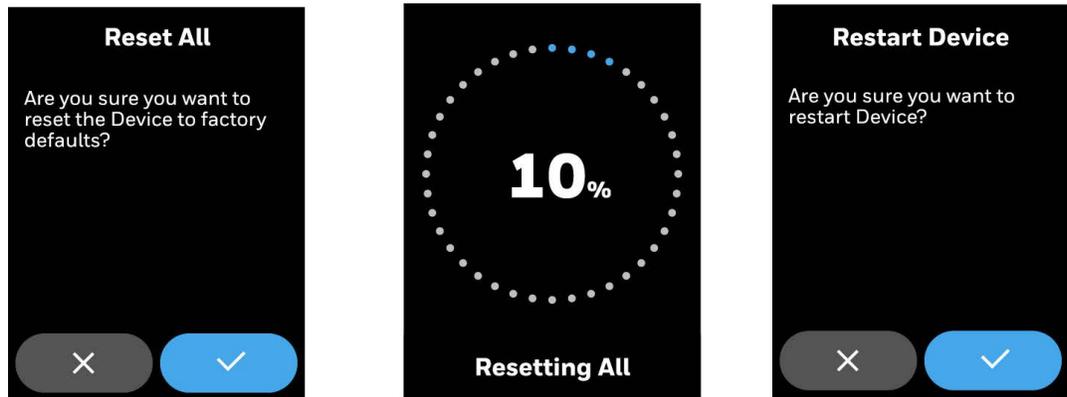


Fig 49. Device restart

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.

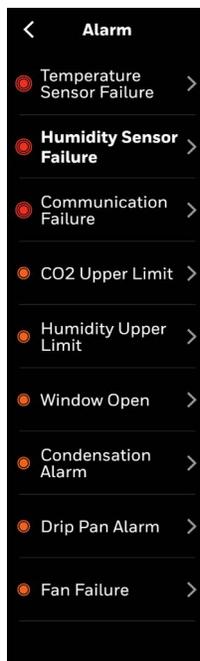


Fig 50. Alarm notifications

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.

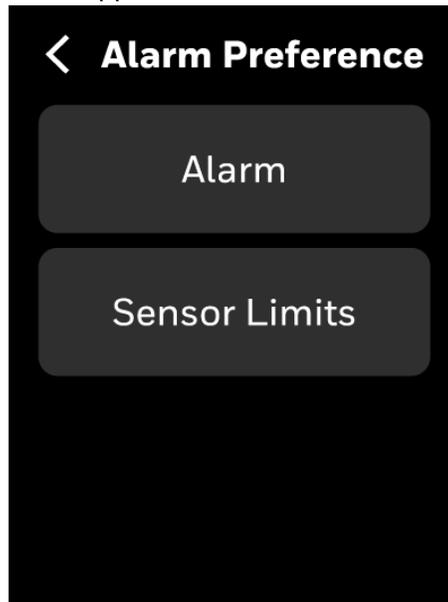


Fig 51. Alarm Preference

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

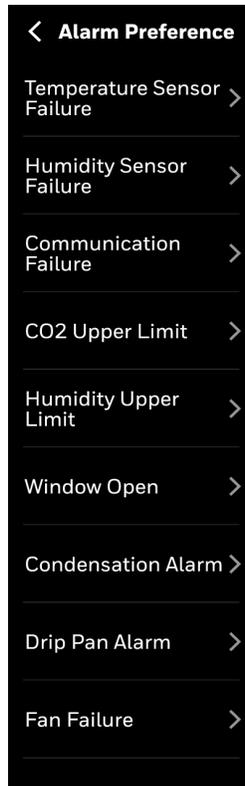


Fig 52. Alarm Types

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

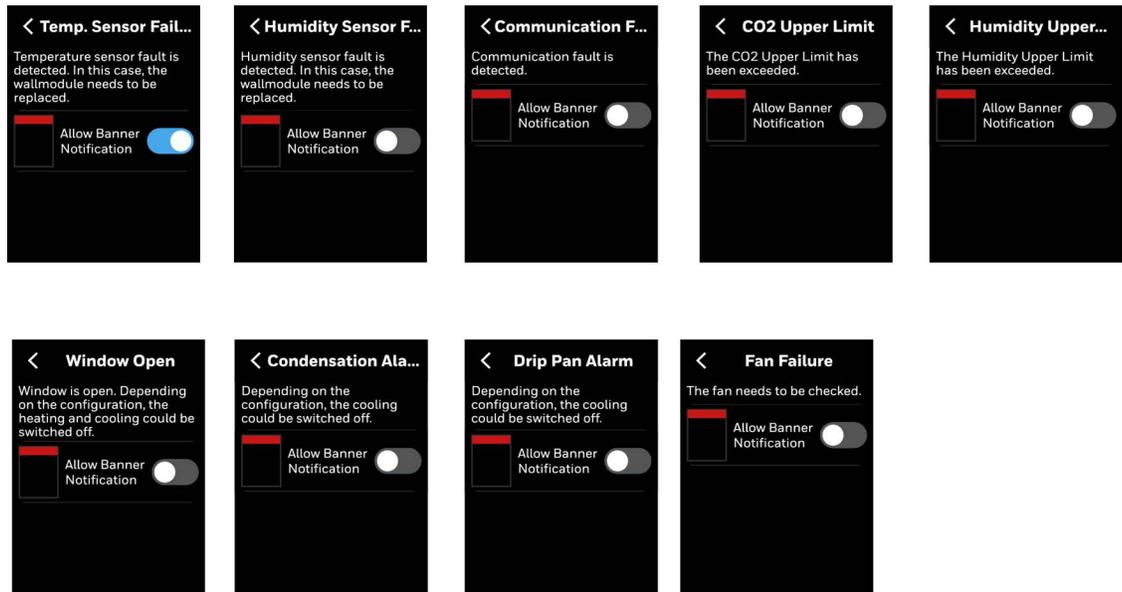


Fig 53. Alarm configuration screen

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.

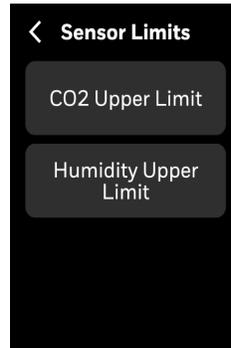


Fig 54. Alarm Limits

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

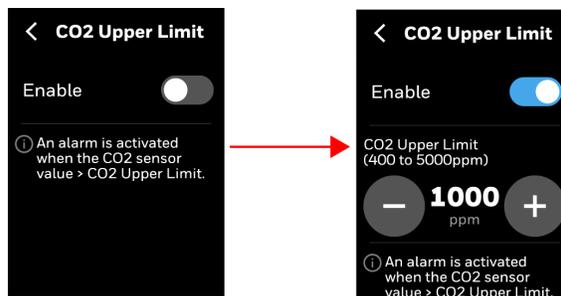


Fig 55. CO2 Limits

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

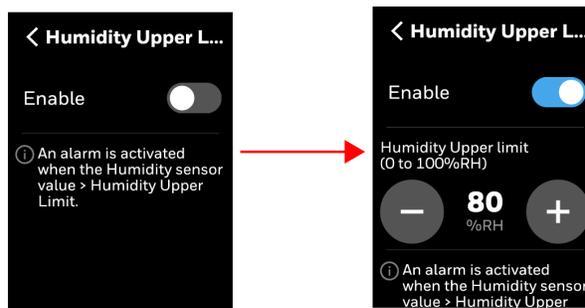


Fig 56. Humidity Limits

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 Display and LED Ring properties

User Role	Display	LED Ring	Time out	Notes
Visitor, Basic user, Admin, Installer (just select installer)	Dim	OFF	10 seconds	If TR100 cannot get system status from the controller, the LED ring is always off. Display turns off or dim depend on the configuration from the controller.
	Display turns off or dim		60 seconds	
	Back to home screen		65 seconds	
	Dim	Dim	10 seconds	If TR100 can get system status from the controller, the LED ring will be on if display is off. Orange for heating, Blue for cooling. Display turns off or dim depend on configuration from controller. LED ring is on or off depend on configuration from controller.
	Display turns off or dim	ON or OFF	60 seconds	
	Back to home screen	ON or OFF	65 seconds	
Installer Enhancement	Dim	OFF	10 Seconds	If TR100 cannot get system status from the controller, the LED ring is always off. Display turns off or dim depend on the configuration from the controller.
	Display turns off or dim		900 Seconds	
	Exit contractor mode. Back to home screen		900 Seconds	
	Dim	Dim	10 Seconds	If TR100 CAN get system status from the controller, the LED ring will be on if display is off. Orange for heating, Blue for cooling. Display turns off or dim depend on configuration from controller. LED ring is on or off depend on configuration from controller.
	Display turns off or dim	ON or OFF	900 Seconds	
	Exit contractor mode. Back to home screen	ON or OFF	900 Seconds	

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