

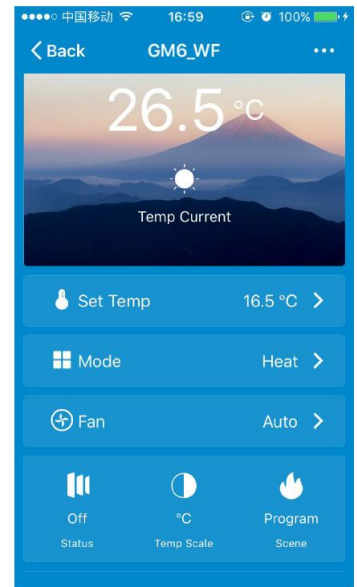
# INSTALLATION INSTRUCTIONS AND HOMEOWNER'S MANUAL

## R02P033

### 2-Stage WiFi Thermostat



Thermostat



Phone App



**FAILURE TO READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR OPERATING THIS CONTROL AND SYSTEM COULD CAUSE PERSONAL INJURY AND/OR PROPERTY DAMAGE.**

## PRODUCT OVERVIEW

The R02P033 2-Stage WiFi Smart Thermostat combines user-friendly touch sensitive buttons with WiFi wireless smart control application, offering unparalleled user control. Its efficient control (local and remote wireless) system, can save up to 32% of heating and cooling costs. It includes a local energy-saving programmable solution to provide highly accurate temperature control (full 7-day schedule), as well as a remote wireless control through the application to easily bring a comfortable lifestyle with total control. The App supports Google Home and Amazon Echo integration.

## FEATURES

This thermostat has been designed to control conventional heating and cooling system or heat pump system.

- Compatible with Google Home and Amazon Echo
- Touch sensitive buttons
- 4.3" LCD screen clear display
- White backlit display
- White bright digits
- Apps for IOS and Android devices

## SPECIFICATIONS

**Power Supply:** 24V<sub>AC</sub> 50/60Hz

**Power consumption:** 2W

**Dimensions:** 136 x 94 x 26mm

**Max Output Current:** 1A (Resistive load)

**Sensor:** NTC Thermistor

**Temperature setting range:** 5-37°C

**Accuracy:** ±0.5°C

FCC Certificate

### **WARNING**

Thermostat installation and all components of the control system shall conform to Class II circuits per the NEC code.

### **WARNING**

To prevent electrical shock and/or equipment damage, disconnect electric power to system at main fuse or circuit breaker box until installation is complete.

### **ATTENTION: MERCURY NOTICE**

This product does not contain mercury, but it may replace a product that contains mercury. Mercury and products containing mercury must not be discarded in household trash. Do not touch any spilled mercury. Wearing non-absorbent gloves, clean up any spilled mercury and place it in a sealed container. For proper disposal of a product containing mercury or a sealed container of spilled mercury, place it in a suitable shipping container. On the Internet, visit [www.switchthestat.ca.com](http://www.switchthestat.ca.com) for a location where the product containing mercury can be sent.

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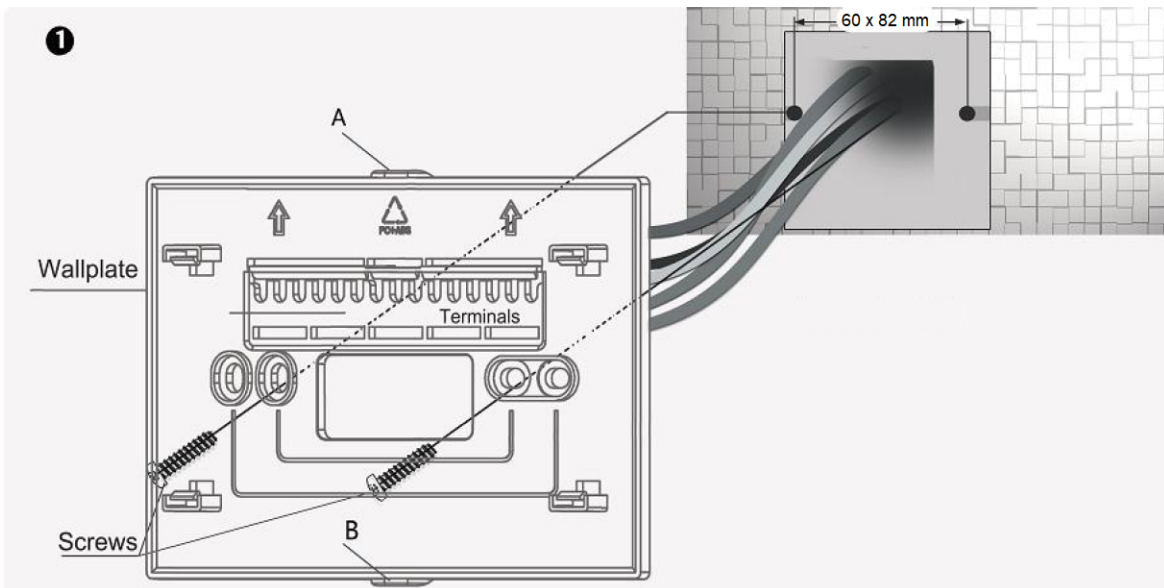
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# 1 Installation

## 1.1 Wiring

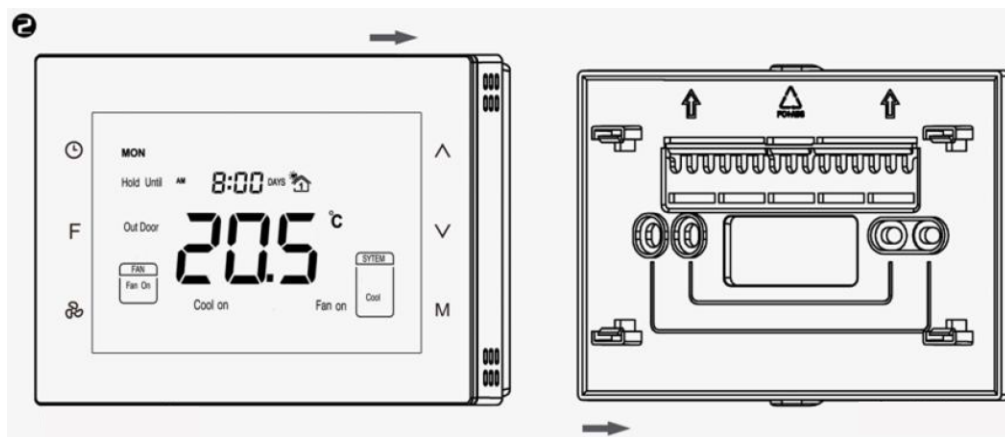
### Step 1:

Separate the thermostat from its base by holding point A and B and pulling apart. Insert the wires into the corresponding terminals following the wiring diagram for the appropriate system. Fasten the wall plate to a mounting box with the provided M x 25 mm screws. Ensure the proper orientation of the wall plate with the arrows on it pointing Up.

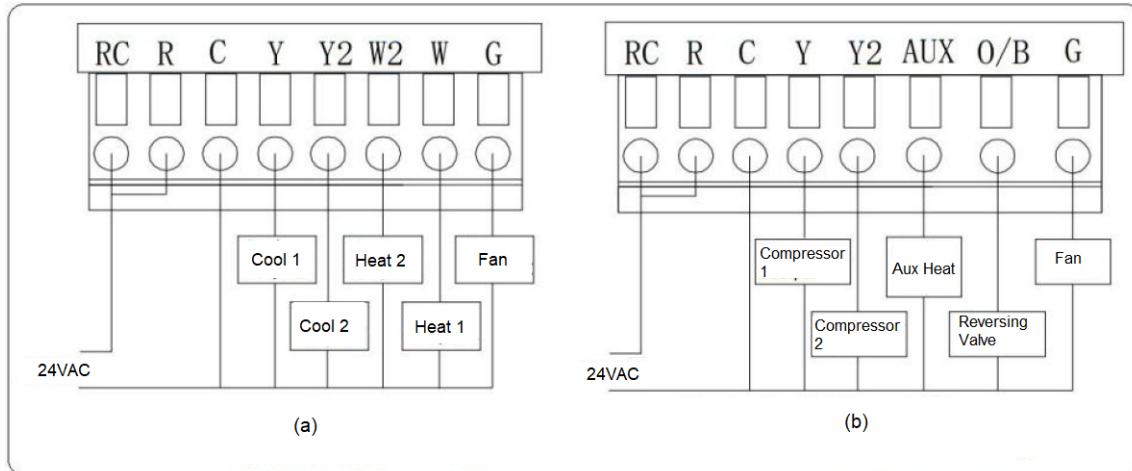


### Step 2:

Double check the wiring and then evenly push the face plate into the wall plate until both parts fit tightly.



## 1.2 Wiring Diagram



(a) Conventiional system

(b) Heat pump system

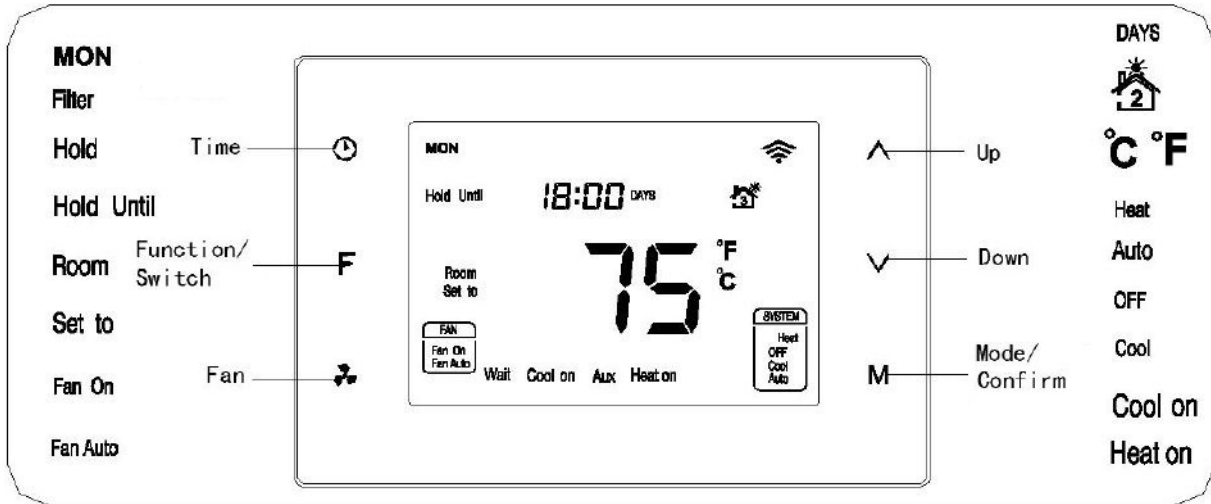
Terminal	Definition	Information
RC	Cooling Power (2 transformers)	Jumpered with R (only one transformer)
R	Heating Power	
W (O/B)	Heating output	Reversing valve output (heat pump)
Y	Cooling output	Compressor output (heat pump)
G	Fan output	
Y2	Cooling output 2	Compressor output 2 <sup>nd</sup> stage (heat pump)
W2 (AUX)	Heating output 2	Auxiliary heat output (heat pump)

## 1.3 System Modes

#	Type	Terminals	System	Compressor delay
0.0	1H/1C (conventional)	R, C, W, Y	Conventiional	N/A
1.0	1H/2C	R, G, W, Y, Y2		
2.0	2H/2C	R, G, W, Y, W2, Y2		
3.0	2H/1C	R, G, W, Y, W2		
4.0	1H/1C	R, G, O/B, Y	Heat pump	1 min (default)
5.0	2H/1C	R, G, O/B, Y, AUX		
6.0	2H/2C	R, G, O/B, Y, Y2		
7.0	3H/2C	R, G, O/B, Y, AUX, Y2		

## 2 Operation

### 2.1 Display and Controls



Temperature set point can be adjusted using  $\wedge$  and  $\vee$ . Normal display resumes after a short delay, or by pressing **F**.

### 2.2 Display Settings

#### Temperature display

*Not available in Hold or Hold Until modes.*

On the main screen, press  $\text{⌚}$  and **F** simultaneously to switch the display between degrees Celcius and Fahrenheit.

#### Setting the clock

*Not available in Hold Until mode.*

Press and hold  $\text{⌚}$  for 3 seconds to enter the clock setting interface. **00** will be displayed. Adjust to the current year using  $\wedge$  and  $\vee$ . Once set, press  $\text{⌚}$  to switch to month setting (**01**). Repeat to set the month (**01**), day (**02**), hours (**03**) and minutes (**04**). Press **F** to save and exit.

### 2.3 Operating Settings

#### Operating Mode

At the main display, slowly press **M** to switch among **Heat**, **OFF**, **Cool** and **Auto**. After the state change, **Set to** will be displayed and the temperature value will flash for 5 seconds. During this time,

the temporary temperature set point can be adjusted.

**OFF:** In this state, the system will not be running.

**Auto:** In this state, the system will maintain the set temperature, automatically switching between heating and cooling based on room temperature.

**Heat:** If the room temperature is 1 °C colder than the set point, the thermostat will display **Heat on** and activate the first heating stage. If the room temperature is 2 °C colder than the set point, the second stage will be activated (2-stage systems only). The second stage is deactivated when room temperature is within 1 °C of the set point. The first stage is deactivated when room temperature reaches the set point.

With a heat pump system: the reversing valve is activated. Below 3 degrees, auxiliary heat is activated and **AUX** will be displayed on the thermostat. Otherwise, **AUX** is displayed on the 2<sup>nd</sup> stage.

**Cool:** If the room temperature is 1 °C hotter than the set point, the thermostat will display **Cool on** and activate the first cooling stage. If the room temperature is 2 °C colder than the set point, the second stage will be activated (2-stage systems only). The second stage is deactivated when room temperature is within 1 °C of the set point. The first stage is deactivated when room temperature reaches the set point.

With a heat pump system: the reversing valve is not energized.

## Compressor Protection

After an operation of the heat pump, there will be a one minute off delay to protect the compressor. **Wait** will be displayed if another request is made during this delay.

## Fan Mode

Press  to switch between **Fan On** and **Fan Auto**.


When **Fan On** is selected, the circulating fan is always on. When **Fan Auto** is selected, the circulating fan will run only when there is a heating or cooling demand. If the system mode is set to **OFF**, the fan will always be off.

## 2.4 Schedule Settings

Press **F** to switch between **Schedule**, **Hold** and **Hold Until** (Holiday) scheduling options.

### Schedule

Each of     stand for one time period of the day.

To set the schedule, press  under the time setting interface. Then, select the schedule format between **7 days** (each day set individually), **5+2 days** (different settings for weekend) or **1 day** (same setting for each day).

1. Press  $\odot$  and then use  $\wedge$  and  $\vee$  to set the blinking hour, minute and temperature value for the chosen time period.
2. Press **M** to switch to the temperature setting, and adjust using  $\wedge$  and  $\vee$ .
3. Press **M** to switch to the next time period of the current day, and repeat steps 1 and 2. Press  $\odot$  to save and switch to the next day.

Once the schedule is set, press **F** to return to the main display.

Factory default schedule:

Period	Time	Parameters		Fan
		Heating	Cooling / Auto	
1	06:00	21.0°C	25.5°C	On
2	08:00	16.5°C	29.5°C	On
3	18:00	21.0°C	25.5°C	On
4	22:00	16.5°C	28.0°C	On

### Hold

In this mode, the thermostat will permanently maintain the set temperature. Schedule is disabled.

**Hold** and **Set to** are displayed and the temperature is blinking. Set the value using  $\wedge$  and  $\vee$ . Save the setting using **F**.

### Hold Until

In this mode, the thermostat will maintain the set temperature for an adjustable number of days (for holidays) before returning to the schedule.

**Hold** and **Set to** are displayed and the temperature is blinking. Set the value using  $\wedge$  and  $\vee$ . Save the setting using **F**. Then, select the number of days (between 1 and 180).

### Temperature Override

During any schedule period, press  $\wedge$  or  $\vee$  to override the temperature setting, and press **F** to confirm. Changes only apply for the current period.



## 2.5 WiFi and App

### WiFi Network Configuration



1. Power on the thermostat.
2. Press  $\wedge$  for 3 seconds, until the WiFi icon starts blinking.
3. Use  $\wedge$  or  $\vee$  until **-E-** is displayed, and confirm with **M**.
4. Follow the instructions indicated on the phone application.

### Mobile App

To download, search "**Plus Thermostat**" in the App Store or Google Play, or scan the QR code on the cover page of this manual.

Access rights can be shared between users registered with the application.

## 2.6 Specific Messages

### Filter Cleaning Reminder

**Filter** will periodically be displayed on the screen as a reminder. The default period is 90 days. To clear the message, hold  $\text{⌘}$  for 3 seconds.

### Sensor Error

If **FF** flashes instead of the temperature display, there is an error with the temperature sensing circuitry of the thermostat. The system will not operate while this error is displayed.

## 2.7 Factory Reset

To reset all settings to factory defaults, hold  $\text{⌘}$  and **M** for 3 seconds.

### 3 Installer Menu

In Schedule mode, hold  $\wedge$  and  $\vee$  to reach the installer menu. Password is 5138.

Use  $\wedge$  and  $\vee$  to change the setting. Press **M** to move to the next menu item.

Item	Parameter	Range	Default	Note
Pb	O/B selection	0.0 / 1.1	0.0	0.0: 0; 1.0: B
0	System mode	0.0 - 7.0	0.0	See section 1.3
1	1H/1C differential	0.5 - 2.2°C	1.0°C	
2	Temperature adjustment	-10 - 10°C	0.0°C	
3	Max. set point	0 - 37°C	37.0°C	max. > min.
4	Min. set point	0 - 37°C	5.0°C	
5	Filter change reminder	1 day - 120 days	90 days	
6	Clock format	12 / 24 h	24.0	
7	Compressor protection delay	0 - 10 min	1 min	
8	Backlight	OF / ON	OF	ON: Always ON OF: Dimmed when unused
	Factory Reset	OF / ON	OF	ON: Reset

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