

2- STAGE WIFI THERMOSTAT

R02P033

HYDRO MAXX



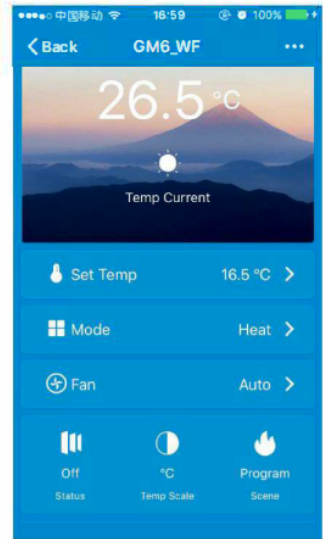
INSTALLATION MANUAL

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_{AC} 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 for a location where the product containing mercury can be sent.

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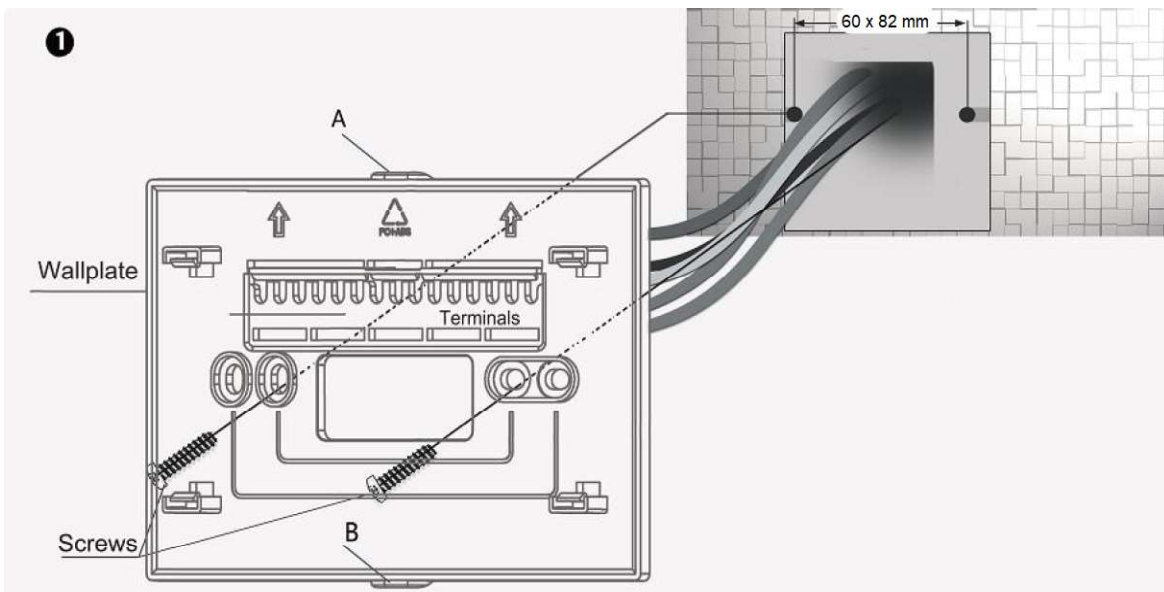
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1 Installation

1.1 Wiring

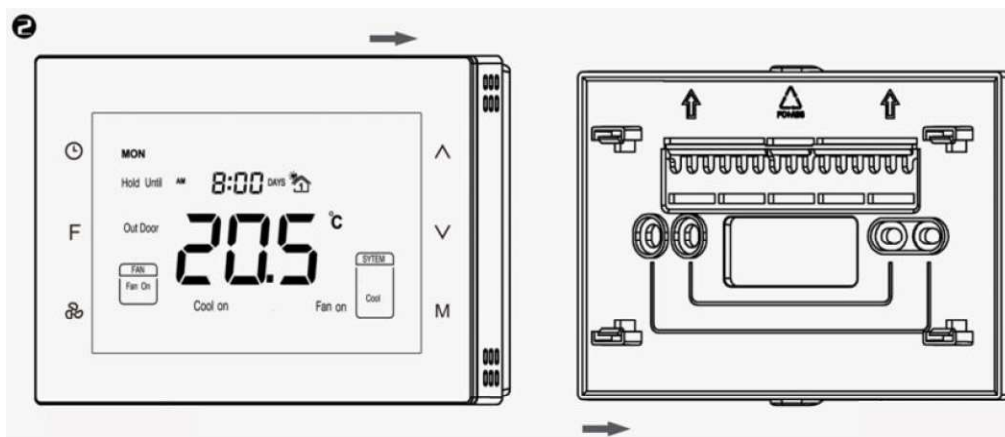
Step 1:

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.

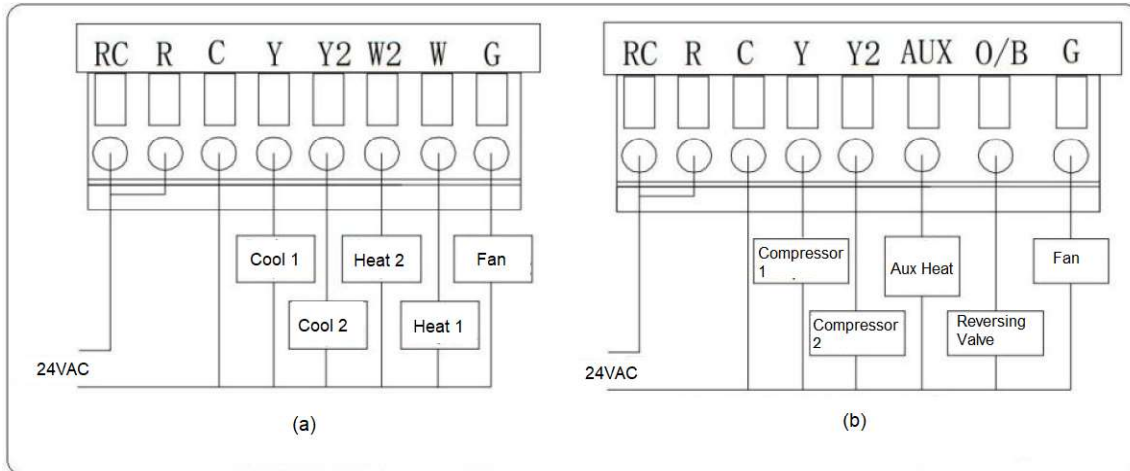


Step 2:

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) Conventiannal system

(b) Heat pump system

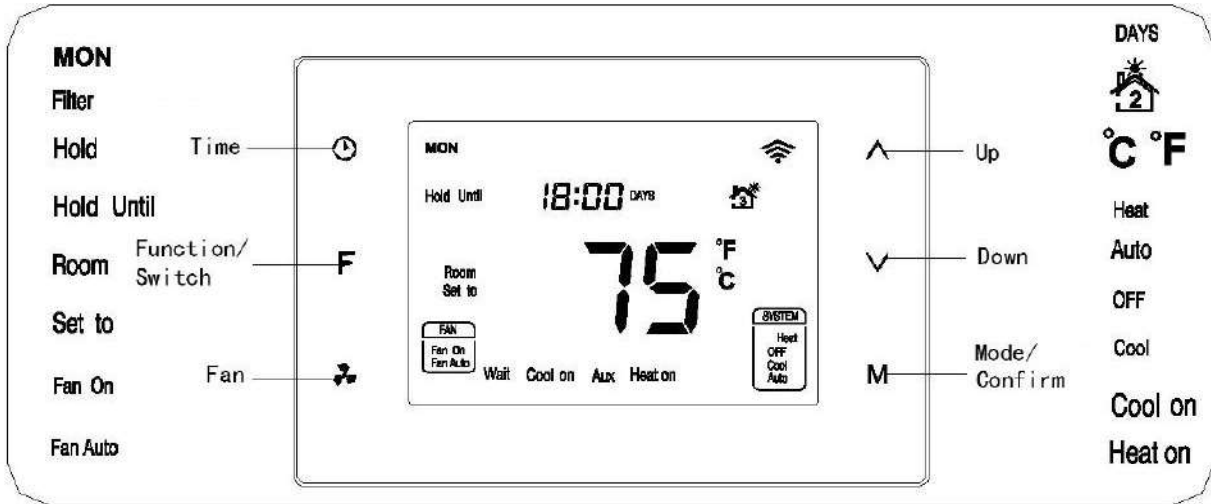
Terminal	Definition	Information
RC	Cooling Power (2 transformers)	Jumpered with R (only one transformer)
R	Heating Power	
W (O/B)	Heating output	Reversing valve output (heat pump)
Y	Cooling output	Compressor output (heat pump)
G	Fan output	
Y2	Cooling output 2	Compressor output 2 nd stage (heat pump)
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	Conventiannal	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 ⌚ and **F** simultaneously to switch the display between degrees Celcius and Fahrenheit.

Setting the clock

Not available in Hold Until mode.

Press and hold ⌚ 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 ⌚ 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 2nd 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 hotter 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 ⌘ 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 ⌘ 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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