

INSTALLING THERMOSTAT WITHOUT A C WIRE (CONT.)

8. Attach the new backplate

Insert the wires through the hole in the new backplate. Use an electric drill to attach the backplate to the wall with the provided wall anchors and screws. **[Figure 3.8]**

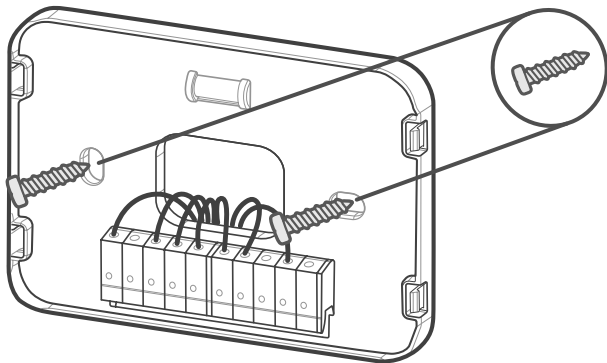


Figure 3.8

INSTALLING THERMOSTAT WITHOUT A C WIRE (CONT.)

9. Connect the wires

First, connect the following 3 wires:

- R wire (R wires include R, Rc, and Rh) to the Rc terminal
- G wire to the C terminal
- Y/Y1 wire to the PEK terminal

Then, connect the remaining wires to the corresponding terminals on the backplate (see **Wiring Diagrams**, page 36).

[Figure 3.9] When you are finished, take a picture. **You may need to refer to the connections in this photo while setting up the thermostat.**

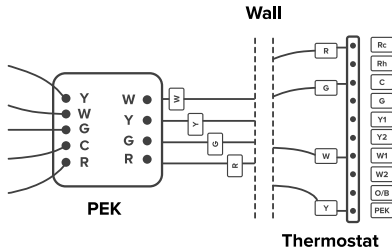


Figure 3.9

INSTALLING THERMOSTAT WITHOUT A C WIRE (CONT.)

10. Adjust the jumper (DIP switch)

Turn the thermostat over. Adjust the jumper switch as follows **[Figure 3.10]**:

- If you have connected wires to both the Rc and Rh terminals on the backplate, then adjust the jumper switch to OFF.
- If not, then adjust the jumper switch to ON.

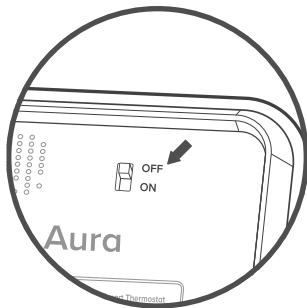


Figure 3.10

INSTALLING THERMOSTAT WITHOUT A C WIRE (CONT.)

11. Place the thermostat

Make sure all wiring is pushed inside the wall. Carefully press the thermostat into the backplate until it clicks securely into place. **[Figure 3.11]**

Note: Cover any gaps in the wall around the thermostat.
Airflow from holes may affect temperature readings.

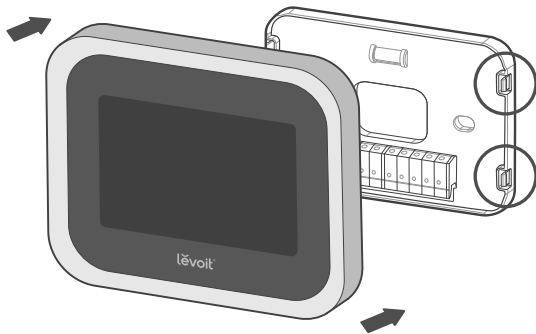


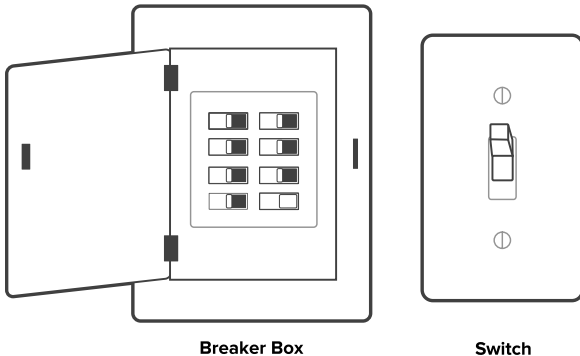
Figure 3.11

INSTALLING THERMOSTAT WITHOUT A C WIRE (CONT.)

12. Turn on your HVAC system

Turn your HVAC system back on. **[Figure 3.12]** If installation was successful, the thermostat display screen will turn on. You are now ready to set up your thermostat (see **Getting Started**, page 41).

Note: If the thermostat display does not turn on, please see **Troubleshooting**, page 47.



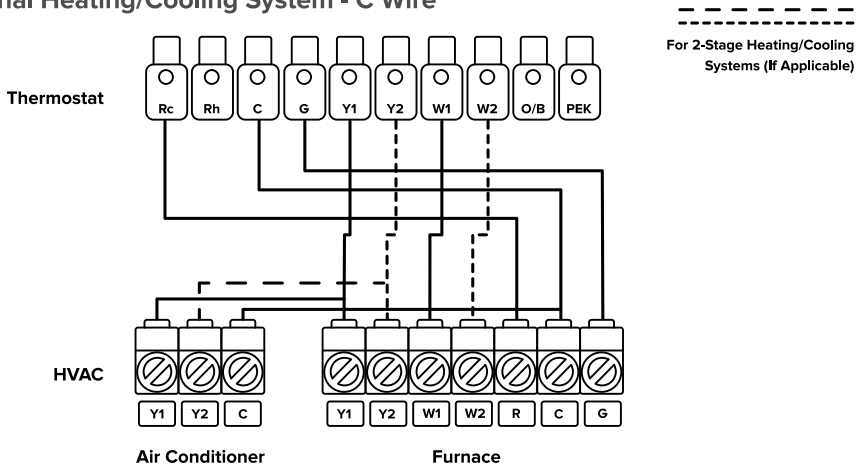
TURN ON

Figure 3.12

Wiring Diagrams

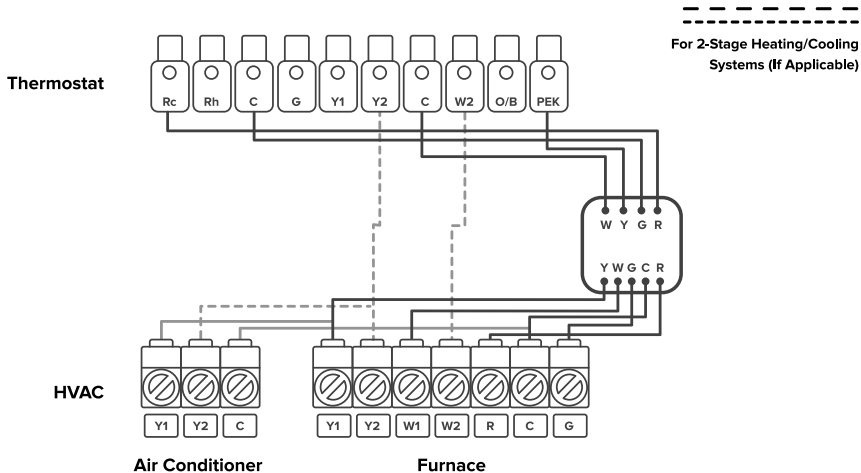
The following are wiring diagrams for common HVAC systems. You may be able to use these for reference when installing your thermostat.

Conventional Heating/Cooling System - C Wire



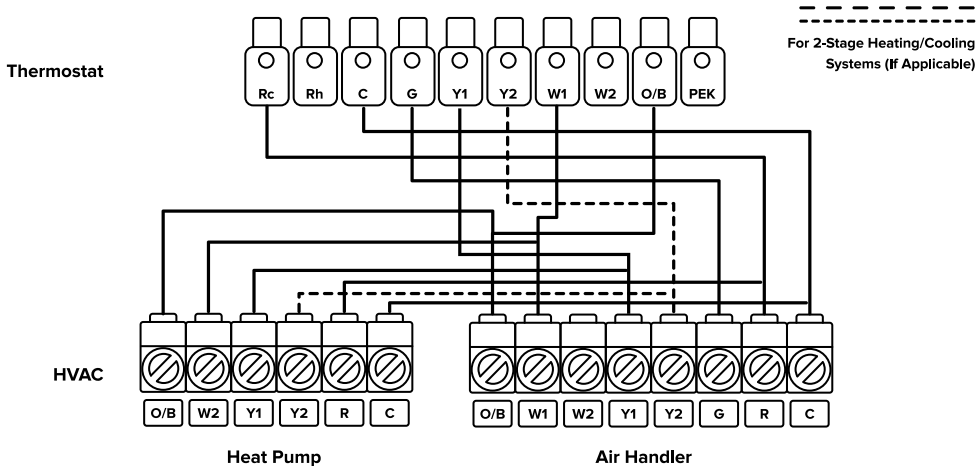
WIRING DIAGRAMS (CONT.)

Conventional Heating/Cooling System - No C Wire (Used with PEK)



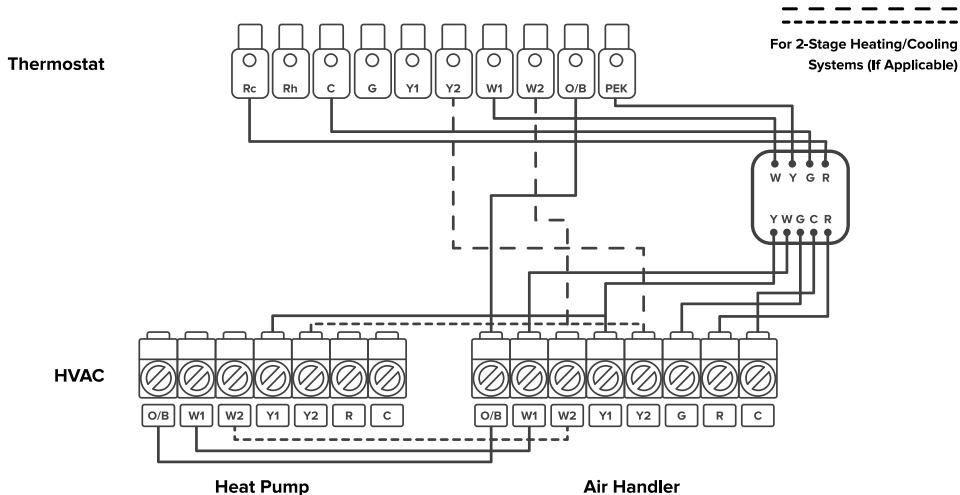
WIRING DIAGRAMS (CONT.)

Heat Pump (Air or Geothermal) with Auxiliary Heat - C Wire



WIRING DIAGRAMS (CONT.)

Heat Pump (Air or Geothermal) with Auxiliary Heat – No C Wire (Used with PEK)



Getting Started

Setup Wizard & Configuration

Note: *The smart thermostat is continually being improved and may change over time. If there are any differences, follow the on-screen instructions.*

1. When the thermostat first powers on, the welcome screen will appear. Begin the setup wizard.
2. Refer to the photo of the backplate terminals to find which terminals have wires connected to them, then select these terminals on the screen.
 - The thermostat will automatically determine what type of HVAC system you have.
 - If there is a wire connected to the O/B terminal, that means that you have a heat pump system, and a prompt will appear on-screen. Select how your O/B reversing valve is engaged.

Note: *Usually, the O/B engages when on cool.*

3. Select the type of fuel system your furnace uses. This will affect how the fan works during heating.

GETTING STARTED (CONT.)

4. Select your desired Eco Level.
 - A higher Comfort level focuses on precise temperature control, but uses more energy.
 - A higher Eco level focuses on energy efficiency, but will not control temperature as precisely.
 - If you are unsure what to select, choose “Balance.” This is a balance of Comfort and Eco.
5. Select whether you would like to connect the thermostat to the VeSync app (see **VeSync App Setup**, page 45). If you don't want to connect to VeSync right now, you can do it later.

Note: Download the free VeSync app to control your smart thermostat remotely and use more functions and features (see **VeSync App Functions**, page 46).

6. Set your time zone and current time.

Note: This will set automatically if you are connected to the VeSync app.

7. The setup wizard is complete. To start your thermostat, select an HVAC mode (see **HVAC Modes**, on page 43).

Overview of Thermostat Modes

HVAC Modes:

Heat

Heating only

Cool

Cooling only

Auto

Automatically adjusts heating/cooling to reach a target temperature range.

Smart

Automatically adjusts heating/cooling to reach a single set target temperature.

Auxiliary Heat

Warms up the room faster if the heat pump can't warm up the room quickly enough.

Off

Turns off heating and cooling. You can still use the Fan Modes.

OVERVIEW OF THERMOSTAT MODES (CONT.)

Fan Modes:

On/Off

Turn the fan on/off.

Auto

Automatically adjusts fan based on the heating or cooling mode.

Circulate

Turns fan on for 20 minutes every hour to circulate air.

Important:



This user manual only includes installation and simple setup instructions. For the extended digital manual, which includes full operating instructions and a user guide, scan the QR code:

You can also type the following link into a web browser:

www.levoit.com/ltms401swus/downloads

VeSync App Setup

Note: The VeSync app is continually being improved and may change over time. If there are any differences, follow the in-app instructions.

1. To download the VeSync app, scan the QR code or search “VeSync” in the Apple App Store® or Google Play Store.




Note: For Android™ users, choose “Allow” to use VeSync.

2. Open the VeSync app. If you already have an account, tap **Log In**. To create a new account, tap **Sign Up**.

Note: You must create your own VeSync account to use third-party services and products. These will not work with a guest account. With a VeSync account, you can also allow your family and friends to control your smart thermostat.

3. Tap + and select your smart thermostat.
4. Follow the in-app instructions to set up your smart thermostat.

Note:

- You can change the name and icon at any time by going to the smart thermostat screen and tapping .
- You can use the VeSync app to connect your smart thermostat to **Amazon Alexa** or **Google Assistant™**.

Connect with Amazon Alexa or Google Assistant™

You can use the VeSync app to connect your smart thermostat to **Amazon Alexa** or **Google Assistant™**. Please follow the in-app instructions to set up your voice assistant.

Note: You must create your own VeSync account to access voice assistants.

VeSync App Functions

The VeSync app allows you to access additional smart thermostat functions, including those listed below. As the app develops, more features may become available.

Remote Control

- Control your thermostat from anywhere using the VeSync app.
- Connect your thermostat to third-party voice assistants.

Schedules

- Create and customize heating and cooling schedules for every day of the week.

Smart Scenes

- Prioritize comfort and air quality in your home using Smart Scenes, which can control your Levoit thermostat, humidifier, and air purifier settings all at the same time.

Energy Usage Graphs

- View your thermostat energy usage and how much time the thermostat spent heating/cooling.
- See your energy usage history for the previous week.

Troubleshooting

Problem	Possible Solution
The thermostat display does not turn on.	Gently tug on each wire connected to the terminals on the backplate to make sure they are properly inserted and secure.
	Make sure the cover of your HVAC system is completely closed. Some HVAC systems do not turn on if the cover is not closed.
	If you only have one R wire (R wires include R, Rc, and Rh), make sure the R wire is connected to the Rc terminal (see About R Wires , page 18).
	If you are using the PEK, make sure the wires are connected to the correct terminals on the backplate (see step 9 of Installing Thermostat without a C Wire , page 32).
	Use a multimeter to check the voltage of the C wire and Rc wire to make sure it is AC 18–30V. The thermostat does not work with high voltage systems. Contact Customer Support (see page 57).
The thermostat freezes or crashes.	Remove the thermostat from the backplate, then reattach it. This will restart the thermostat.

TROUBLESHOOTING (CONT.)

Problem	Possible Solution
Forgot lock screen password.	Unlock the thermostat through the VeSync app.
	Remove the thermostat from the backplate, then reattach it. This will restart the thermostat.
Heating and cooling functions are reversed.	If you have a heat pump system, change the O/B reversing valve setting in the thermostat's settings (scan the QR code and see Settings in the extended digital manual).
	Make sure that the W wire and Y wire are connected to the correct terminals on the backplate.
	If you are using the PEK, make sure the wires are connected to the correct terminals on the HVAC control board and backplate (see Installing Thermostat without a C Wire , page 22).
The thermostat does not show weather information.	Make sure the thermostat is connected to the VeSync app.
	In the VeSync app, make sure you input your home location and set the region to the United States.

TROUBLESHOOTING (CONT.)

Problem	Possible Solution
Room sensor (sold separately) does not connect to the thermostat.	Make sure the thermostat and room sensor are added to the same VeSync account.
	One of the room sensor's batteries may be low. Replace with 2 AAA batteries.

Important:



This user manual only includes installation and simple setup instructions. For the extended digital manual, which includes full operating instructions and a user guide, scan the QR code.

You can also type the following link into a web browser:
www.levoit.com/ltms401swus/downloads

If your problem is not listed, please contact **Customer Support** (see page 57).

VeSync App Troubleshooting

My smart thermostat isn't connecting to the VeSync app.

- Make sure your phone has Bluetooth® turned on and is not currently connected to another Bluetooth device.
- During the setup process, you must be on a secure 2.4GHz Wi-Fi® network. Confirm that the network is working correctly.
- Make sure the Wi-Fi password you entered is correct.
 - There should be no spaces at the beginning or end of the password.
 - Test the password by connecting a different electronic device to the router.
 - If you're manually typing in the SSID and password, double check that both are entered correctly.
- Your phone should be as close as possible to your thermostat.
- Your router may need to be at a higher location, away from obstructions.
- Make sure your thermostat and router are away from appliances (such as microwave ovens, refrigerators, electronic devices, etc.) to avoid signal interference.
- If you're using a VPN, make sure it's turned off while setting up your thermostat.
- Disable portal authentication for your Wi-Fi network. If portal authentication is enabled, the thermostat will not be able to access your Wi-Fi network, and setup will fail.

Note: *Portal authentication means that you need to sign in to your Wi-Fi network through a web page before you can use the Internet.*

VESYNC APP TROUBLESHOOTING (CONT.)

My thermostat is offline.

- Make sure your router is connected to the internet and your phone's network connection is working.
- Delete your offline thermostat from the VeSync app. Swipe left (iOS®) or press and hold (Android™), then tap **Delete**.
Reconfigure the thermostat with the VeSync app.

Note: *Power outages, internet outages, or changing Wi-Fi routers may cause the thermostat to go offline.*

If your problem is not listed, please contact **Customer Support** (see page 57).

FEDERAL COMMUNICATION COMMISSION INTERFERENCE STATEMENT - PART 15

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC RADIATION EXPOSURE STATEMENT

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC RF exposure compliance requirements, please follow operation instructions as documented in this manual. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body. The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

FCC SDOC SUPPLIER'S DECLARATION OF CONFORMITY

Arovast Corporation hereby declares that this equipment is in compliance with the FCC Part 15 Subpart B. The declaration of conformity may be consulted in the support section of our website, accessible from www.levoit.com.

Warranty Information

Product Name	Aura™ Smart Thermostat
Model	LTM-A401S-WUS
<i>For your own reference, we strongly recommend that you record your order ID and date of purchase.</i>	
Date of Purchase	
Order ID	

Terms & Policy

Arovast Corporation (“Arovast”) warrants this product to the original purchaser to be free from defects in material and workmanship, under normal use and conditions, for a period of 2 years from the date of original purchase.

Arovast agrees, at our option during the warranty period, to repair any defect in material or workmanship or furnish an equal product in exchange without charge, subject to verification of the defect or malfunction and proof of the date of purchase.

There is no other express warranty. This warranty does not apply:

- If the product has been modified from its original condition;
- If the product has not been used in accordance with directions and instructions in the user manual;
- To damages or defects caused by accident, abuse, misuse or improper or inadequate maintenance;
- To damages or defects caused by service or repair of the product performed by an unauthorized service provider or by anyone other than Arovast;
- To damages or defects occurring during commercial use, rental use, or any use for which the product is not intended;
- To damages or defects exceeding the cost of the product.

WARRANTY INFORMATION (CONT.)

Arovast will not be liable for indirect, incidental, or consequential damages in connection with the use of the product covered by this warranty.

This warranty extends only to the original consumer purchaser of the product and is not transferable to any subsequent owner of the product regardless of whether the product is transferred during the specified term of the warranty.

This warranty does not extend to products purchased from unauthorized sellers. Arovast's warranty extends only to products purchased from authorized sellers that are subject to Arovast's quality controls and have agreed to follow its quality controls.

All implied warranties are limited to the period of this limited warranty.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

If you discover that your product is defective within the specified warranty period, please contact Customer Support via **support@levoit.com**. **DO NOT** dispose of your product before contacting us. Once our Customer Support Team has approved your request, please return the product with a copy of the invoice and order ID.

Every Levoit product automatically includes a 2-year warranty. To make the customer support process quick and easy, register your product online at <https://www.levoit.com/warranty>.

WARRANTY INFORMATION (CONT.)

This warranty is made by:

Arovast Corporation
1202 N. Miller St., Suite A
Anaheim, CA 92806

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Customer Support

If you have any questions or concerns about your new product, please contact our helpful Customer Support Team.

Arovast Corporation

1202 N. Miller St., Suite A
Anaheim, CA 92806

Support Hours

Mon–Fri, 9:00 am–5:00 pm PST/PDT

Email: support@levoit.com

Toll-Free: (888) 726-8520

*Please have your order invoice and order ID ready before contacting Customer Support.

Notes

Notes

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