MyE™ Smart Thermostat
User Guide

Version 1

Content

Introduction

Thank you for purchasing your new MyE^{TM} Smart Thermostat. It will provide you with comfort, convenience, and energy savings for years to come.

- Saves energy and money by automatically adjusting the temperature set-point according to the preprogrammed schedule when you leave home or go to sleep.

- Provides the ultimate comfort and convenience. You can monitor and control your home's temperature and energy usage anywhere anytime via our web interface by using a computer or a smart phone.

- Communicates with smart meters to act on demand controls and display real-time pricing, helping you cut utility bills even more.

- Expandable to a smart home system by adding more smart products from MyE^{TM}.

- Backed up by a slew of powerful tools from the MyEnergy Domain website which allows you to optimize temperature control as well as evaluate your home's energy efficiency and possible upgrades and retrofits.

We hope that you take a few moments to go over this manual and become familiar with the features of the product. Please keep this manual for future reference.
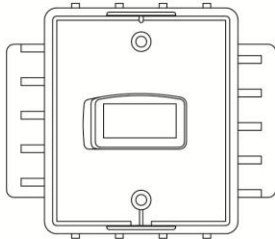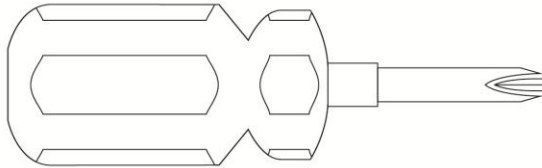
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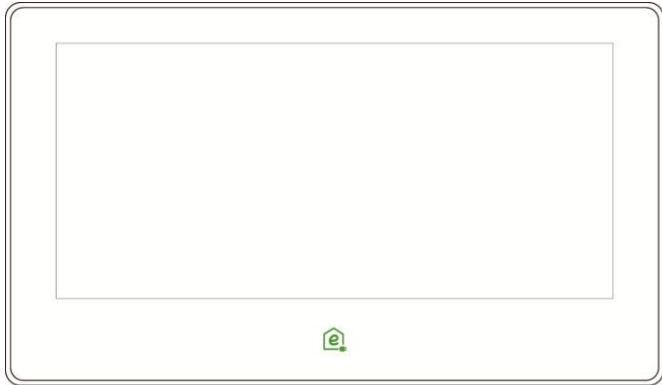
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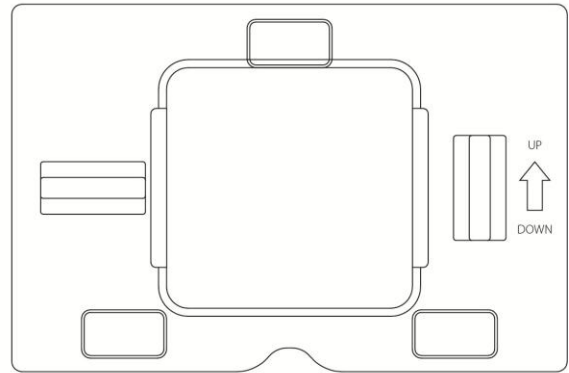
Mounting Plate

Wire Plate

Screw Driver

Mounting Screws

MyE Smart Thermostat

The Thermostat is a wireless communicating, programmable thermostat that is compatible with most of the HVAC equipment available in the US market. It communicates with the MyE^{TM} Smart Home Gateway wirelessly, and can be programmed via intuitive graphic interface at our website www.myenergydomain.com or the smart phone app.

Mounting Plate

This plate is to be fixated on the wall with the provided screws and screwdriver. After that, the Thermostat can be securely attached to it.

Wire Plate

This middle part facilitates the connection between the HVAC control wires and the Thermostat.

Mounting accessories

Screws and a screwdriver for the mounting plate.

Quick Start

Instructions for you to quickly get the system up and running.

2D Barcode card

A card with 2D barcodes for iOS app and Android app, respectively. Scanning the barcode using your smart phone will bring you directly to the download link.

System Setup

1. Download MyE app for smart phones

Use your smart phone to scan the 2D barcode card included in the box. It will automatically bring you to the app store for download. Or you can search for *MyEnergy Domain* in the app Store.

2. Registration

Run MyE app, and tap the **Scan Barcode to register/login** button. Scan the barcode on the bottom of the *MyE Smart Home Gateway* (referred to as the Gateway thereafter). It will automatically create an account for you using the Gateway's ID number as the username and PIN as the password, and log you in. We strongly suggest you immediately go to Account page and change the username and password so that you can easily memorize them.

If you have already had an account with us, please log into your account, and click **Register a Gateway**. Then follow the instructions to finish up the registration.

You can also visit our web portal at www.myenergydomain.com for registration.

3. Set up the Gateway

Home internet router

AC adaptor

Smart Home Gateway
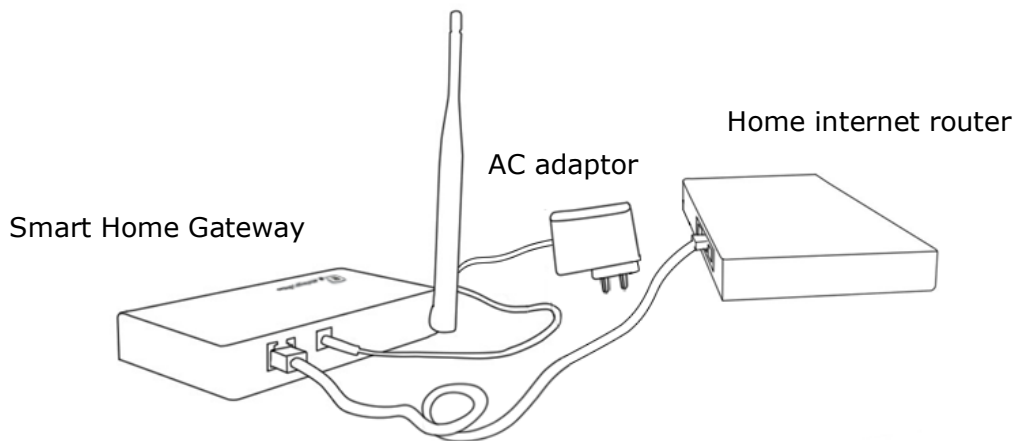
The Gateway has a separate package. Use the included AC adaptor to power up the Gateway, and the red-colored LED should light up. Connect the Gateway to your home's internet router with the Ethernet cable included. The yellow-colored LED should flash.

Go to the Settings page of the app and refresh. You should see the information about the Gateway displayed.

4. Install the Thermostat

To install the *MyE Smart Thermostat* (referred to as the Thermostat), please consult the **Installation Guide** downloadable from our website for detailed instructions. Though we have greatly simplified the installation, if you are still not comfortable installing it by yourself, please contact a local professional for installation service.

5. Set up the Thermostat

After powered up, the Thermostat will automatically search for the Gateway. The LCD will display a flashing antenna sign 📶 and internet connection sign 🖥. Once the Thermostat finds the Gateway, the LCD will flash the last 4 digits of the Gateway's ID. You can wait for 10 second for the auto confirmation, or press the **MyE Button** (with the logo) on the Thermostat for immediate

confirmation. The Thermostat will restart once to apply the settings. Once this is done and both 📶 and 🖥 signs are steadily lit, the Thermostat is ready for normal operation.

6. Customize your program

Please use our smart phone app or web portal to customize the weekly program for auto setback, and enjoy the convenience, energy savings and fun from now on.

Keys and Displays
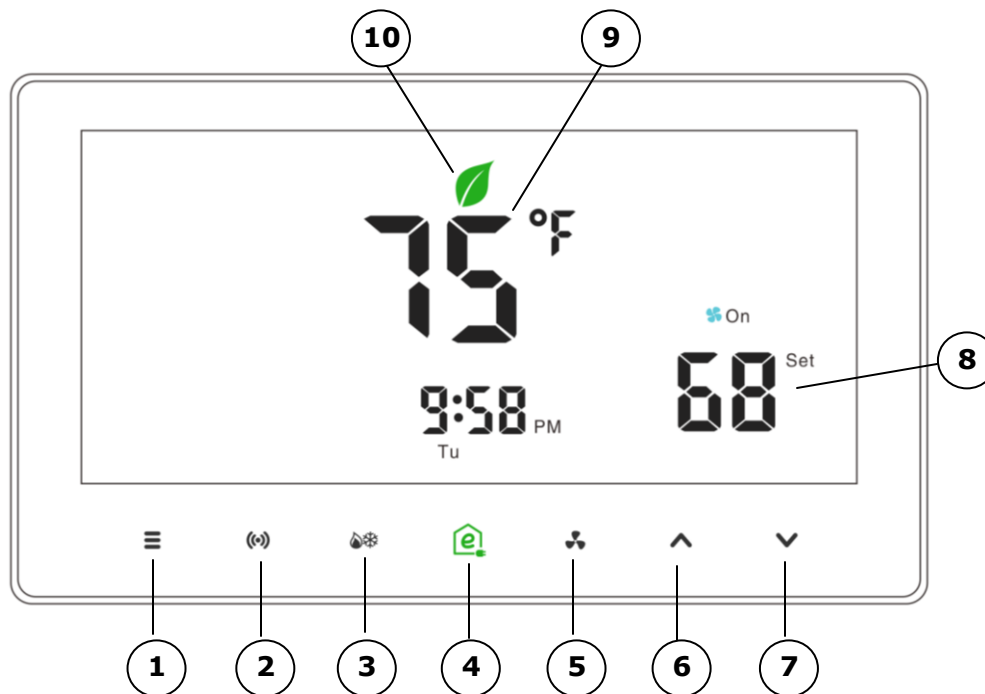
① **Menu**

Toggle through the following display settings:

- 🌤 Outdoor weather

- $ Current electricity price (only if a smart meter is present)

- Power Current power (only if a smart meter is present)

- 🕐 Clock setup (only necessary if you plan to use the Thermostat offline; otherwise, the clock will be synced automatically).

② **Connections**

Toggle between with or without internet control.

If there is a smart-meter, then it will toggle through the following control settings:

- Both internet control and smart-grid control

- Internet control without smart-grid control

- Smart-grid control without internet control

- No internet control or smart-grid control

③　　　　**System**

Toggle through *Auto*, *Heat*, *Em Heat* (only if the system is a heat pump), *Off*, and *Cool*.

④　　　　**MyE Button™**

This button is multi-functional. The first push causes all of the current settings to light up on the display. Then, holding the button causes it to toggle between a Hold or Run state for the set-point. Alternatively, it can be used in combination with another key as described below.

⑤　　　　**Fan**

Toggle through Auto and On.

⑥⑦　　　**Up, Down**

These buttons are used to change temperature set points or time (in the clock-setting mode).

⑧　　　　**Set-point**

Use Up and Down buttons to adjust the temperature set-point.
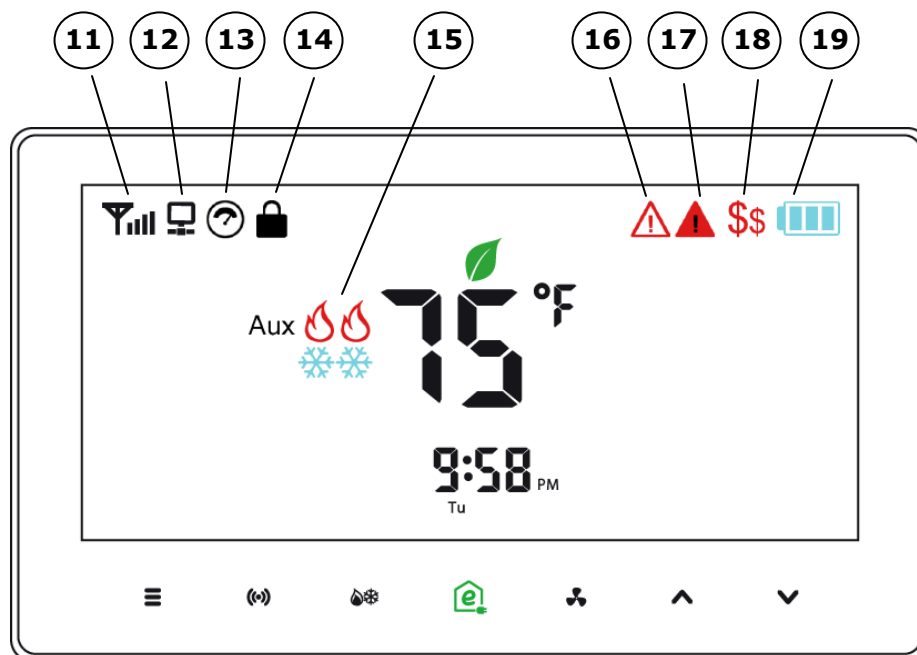
⑨　　　　**Room Temperature**

Actual room temperature measured by the Thermostat in real time

⑩　　　　**MyE Leaf™**

Change color according to the set-point: green means energy saving; red means energy wasting; no leaf if it is in between.

⑪　　　　**Signal Strength**

• The status of wireless connection between the Thermostat and the Gateway.

- If the Thermostat losses wireless communication with the Gateway, 📶 sign will flash.

⑫   **Internet Connection**

- The status of internet connection between the Gateway and the MyE server.
- If the internet connection is lost, both 📶 and 🖥 signs will flash. All control will be local to the Thermostat.

⑬   **Smart Meter**

- This sign will show if a smart meter is present.
- Please refer to **Menu** and **Connections** buttons for smart meter related operations.

⑭   **Keypad Lock**

This sign will show when the keypad is locked up.

⑮   **Heating/Cooling Stage**

This indicates what stage of heating/cooling is engaged.

⑯   **Alert**

This sign will show when there is any maintenance issue with the HVAC system.

⑰   **Warning**

This sign will show when the Thermostat detects any fault within the HVAC system which needs immediate attention.

⑱   **High $ (high cost)**

When this sign shows up, it indicates a spike in electricity cost.

- If the electric utility company indicates that current electricity prices are about to spike or are already high, then this sign will flash until the prices come back down below the high cost level.
- This sign is only used if there is a smart meter in the premise, and the utility has a variable price program.
- The user can define the high price threshold using www.MyEnergyDomain.com (under Smart Home/Thermostat Setup).

⑲   **BATTERY**

This sign only shows up when the rechargeable battery is critically low which typically won't happen under normal usage. If the sign doesn't go away after an hour, please contact our technical support.

Operations

Temporary Hold Set-point

- Press **Up**/**Down** button to adjust the set-point. The set point will start to flash for 5 seconds. Then Temporary Hold is automatically set, and **Hold** sign on the LCD will flash to indicate that the Thermostat is in Temporary Hold.
- While a Temporary Hold is in effect, pressing **Up**/**Down** buttons will change the set-point without exiting the Temporary Hold mode.
- Temporary Hold will be automatically canceled when the next program comes up.
- During Temporary Hold, pressing **MyE Button** will cancel it and resume the normal program.

Permanent Hold Set-point

- Press **Up**/**Down** button to adjust the set-point, then immediately press **MyE Button**. Permanent Hold is set, and **Hold** sign on the LCD will light up steadily to indicate that the Thermostat is in Permanent Hold.
- While a Permanent Hold is in effect, pressing **Up**/**Down** buttons will change the set-point without exiting the Permanent Hold mode.
- Permanent Hold will not expire unless **MyE Button** is pressed again.

Lock/unlock Keypad

Press **MyE Button + Menu** buttons to toggle between the Lock and Unlock state of the keypad. When the keypad is locked up, no change can be made through the thermostat key operations to prevent children from tempering it. However, you can still control it via the smart phone app or the web portal.

Reset Wireless Pair-up

Press **MyE Button + Connections** buttons together. The Thermostat will re-initiate the process of joining wireless network. Only do this operation when you want to pair up the Thermostat with a different Gateway.

Switch between Online/Offline Control

All controls provided on the Thermostat panel can also be initiated from the smart phone app or web portal. If you wish to switch to local control only, press **Connections** button to make 🖥 go away. Then the Thermostat will not be controlled remotely, but you can still monitor its status. Press **Connections** button again to re-enable internet controls.

Set Time

Normally, time is automatically synced by MyE server and you don't have to do anything about it. In case you have chosen local controls only, please follow the steps below if the time is off:

- Cycle the **Menu** button until 🕐 sign is shown.

- Press and hold the **Menu** button until the hour digit start flashing. Keep pressing the **Menu** button and the editable field will cycle through hour, minute, AM/PM, and week day. Make necessary adjustment by using **Up**/**Down** buttons at each step.

- At any point, pressing the **MyE Button** will immediately confirm the change and exit the time-setting mode. Pressing any other key will exit the mode without applying the changes.

Program the Thermostat

The Thermostat supports four programming methods: Weekly, Special Days, Next 24 Hours, and Event. The programming can be easily done using the graphic user interface of the smart phone app or the web portal at www.myenergydomain.com.

Weekly

Weekly program is a preset schedule that automatically repeats in the cycle of a week. The Thermostat has a default weekly program as shown in the following table.

	Weekdays	Weekends
Rise	6:00AM	6:00AM
Cooling	74	74
Heating	70	70
Leave	8:00AM	—
Cooling	80	—
Heating	64	—
Home	5:00PM	8:00AM
Cooling	74	74
Heating	70	70
Sleep	9:00PM	9:00PM
Cooling	78	78
Heating	66	66

You can change the start/end time and set-point of each program mode to fit your specific need. You can also add customized program modes. You can have up to 12 modes (periods) for a day's schedule.

To edit the Weekly program, you can do it on the **Weekly** page of the app or the **Master Program** page under **Smart Home/Thermostat** of the web portal after the login.

Special Days

There are occasions when you want to temporarily change the schedule for a few days and then switch back to normal. And because these occasions are reoccurring, you want to save the special schedules for repetitive applications. Special Days is a function just for that.

For that purpose, you can do it on the **Special Days** page of the app or the **Special Days** page under **Smart Home/Thermostat** of the web portal after the login.

Next 24 Hours

Next 24 Hours provides a way for you to do a one-time change to the program within next 24 hours. You can do it on the **Next 24Hrs** page of the app or the **Current Settings** page under **Smart Home/Thermostat** of the web portal after the login.

Event

For some scenarios, we wish that several devices or equipment could be turned on or off with just a single click. For example, when you return home from work, you may want to switch on the light, turn on the TV, close the automatic curtain, etc., all at the same time. Event is a feature just for that purpose. You can group different devices or equipment to form a control group, so you can set them to their desired states with a single tap.

What is more, you can set conditions for an *Event* to be automatically applied once the conditions are met. There are two types of conditions: time, indoor/outdoor climate (temperature or humidity). For example, if you have a planned trip coming up, you can preset a time-triggered *Event* that, when the time comes, the devices included in the control group will be automatically turned off or set to predetermined states.

For this feature, you can do it on the **Event** page of the app or the **Event** page under **Smart Home** of the web portal after the login.

Troubleshooting

Problem	Possible Causes and Corrections
The Thermostat LCD doesn't show anything	● The Thermostat has been turned off. Press Reset button to power it up ● The battery is dead after a long storage. Allow an hour or so for it to be recharged
Can't set the heating set-point higher or the cooling set-point lower	● The set-point limit has been reached (55~90F)
Heating doesn't come on	● *System* is not set to **Heat** ● The room temperature is higher than the heating set-point
Cooling doesn't come on	● *System* is not set to **Cool** ● The room temperature is lower than the cooling set-point
The Thermostat has a display, but the key pad doesn't work. Nothing happens when I tap buttons	The **Key-Lock** has been turned on. Use one of the followings to turn it off: ● Press **MyE Button** + **Menu** buttons on the Thermostat simultaneously ● Go to the Dashboard page of the web interface, click the **Key-Lock** icon 🔒 to turn it into 🔓
After the installation, I can't control the Thermostat from the web or smart phone. The Thermostat and the gateway are all powered on	● The remote control has been disabled. Press **Connections** button on the Thermostat to enable it. ● If 📶 sign flashes, the Gateway may be too far away from the Thermostat. Try to place it closer to the Thermostat ● If both 📶 and 🖳 signs flash, the internet connection is lost. Please check if the Gateway is powered up or the home internet connection is good

If the above suggested corrections don't fix the problem, or the problem you are having is not in the list, please contact our customer service at support@myenergydomain.com.

FAQ

Do I have to register the product in order to use the Thermostat?

By registering the product, it gives you the ability to monitor and control your home's temperature and energy use from anywhere anytime, plus a series of great tools that help you optimize the temperature control, evaluate your home's energy efficiency, and get recommendations for saving energy and money with home improvements and retrofits.

Of course, the Thermostat still provides basic temperature control functionalities even without registering it online, but you won't be able to program it. Neither can you control it remotely. Therefore, we strongly encourage you to register the product online before you use it.

Can the Thermostat be used without the Smart Home Gateway?

The Smart Home Gateway provides the internet access for the smart Thermostat, so you will be able to enjoy all the benefits outlined in the answer to the last question. We strongly encourage you to set up the Smart Home Gateway before using the Thermostat.

Does a Smart Home Gateway only connect to one Smart Thermostat?

No. You only need one Smart Home Gateway for your house. It works with multiple MyE^{TM} Smart Thermostats. You only need to buy extra thermostats for additional zones.

How do I set my own daily temperature program?

Please refer to **Weekly** under **Program the Thermostat** for detailed instructions.

I am going on vacation for a few days. How do I save energy but also ensure that the house temperature is comfortable when I return?

You can use either Special Days or Event feature to accomplish that. Please refer to **Special Days** and **Event** under **Program the Thermostat** for detailed instructions.

Specifications

- Physical dimension: 132 x 77 x 12 mm

- Maximum load: 1A@24VAC per output

- Temperature display resolution 1 ^{o}F (0.5 ^{o}C)

- Temperature Accuracy: +/-1 ^{o}F (0.5 ^{o}C)

- Supply RH,RC,C,W,W2/AUX,Y,Y2,G,O/B wire.

- Wireless: ZIGBEE PRO

- 2.4G IEEEE 802.15.4 Compliant RF

- MAX Output power: 4.5dBm

- Receiver Sensitivity: -90dBm

Note: The device has no ad-hoc function.
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: The manufacturer is not responsible for any radio or TV interference caused by unauthorized changes and modifications to this equipment. Such changes and modifications could void the user's authority to operate the equipment.
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 communication 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 eth 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.

* RF warning for Portable device:
The device has been evaluated to meet general RF exposure requirement. The device can be used i n portable exposure condition without restriction.

MyEnergy Domain, Inc.
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