LUX®

TQ1 Smart Thermostat
Installation and instruction manual



Important!

- Please read the instructions
- Disconnect power before starting work
- Take a photo of your existing thermostat wiring

v03

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Help!

If you get stuck, please visit www.luxproducts.com/support for additional videos and support material

C-wire

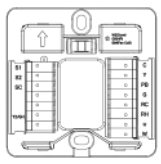
This thermostat requires a C-wire or a Power Bridge. If your existing thermostat does not use a C-wire, please either purchase a Power Bridge (available at luxproducts.com) or contact an HVAC professional.

System compatibility

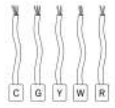
This thermostat is for most 24VAC systems. It is not compatible with 120-240VAC heating. If you see thick red or black wires, “line voltage”, or wire nuts, **STOP!**

What is included?


TQ1 thermostat


Wall plate


Self-tapping screws wall anchors



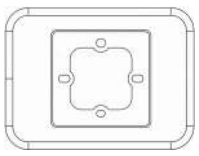
Wiring labels

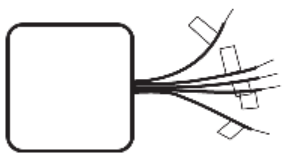
Tools needed


Phillips screwdriver


Matter-enabled Smart Speaker (optional)

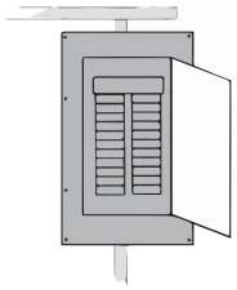
Not included


Decorative trim plate to cover rough edges of dry wall


Lux Power Bridge in case the wiring to thermostat does not have a “c-wire”

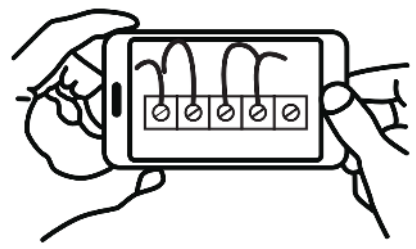
If you need these parts for your installation, please visit www.luxproducts.com

1



Turn-off the power at the circuit breaker to both your heating and cooling systems before performing any wiring.

2



Remove the front part of your old thermostat from the back part.

If the wires are not already labelled, use the provided wiring labels to mark each one.

Take a photo of the wiring as this may help you later.

3

The most typical installations include;

- Conventional 1H/1C (Y, G, W, R, C)
- Conventional 2H/1C (Y, G, W, W2, R, C)
- Heat Pump Single-Stage (Y, G, R, O/B, C)
- Heat Pump with auxiliary heat (Y, G, R, O/B, W, C)

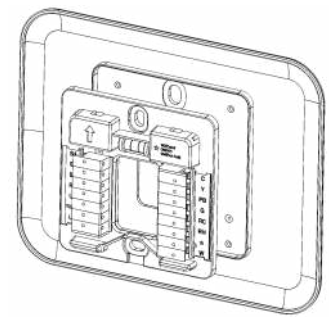
If you have only one R wire, please use the RH terminal.

For more advanced system configurations, please see the wiring diagram on reverse side.

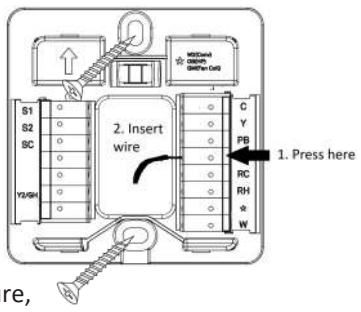
4

Unscrew the screws holding the old thermostat base plate to the wall, remove the wires from the terminals of your old thermostat taking care not to let them fall back into the wall.

(Optional) If you have a decorative trim plate, you should place it between the wall and the wall plate now. Note that you can install it vertically or horizontally depending on your preference.



5

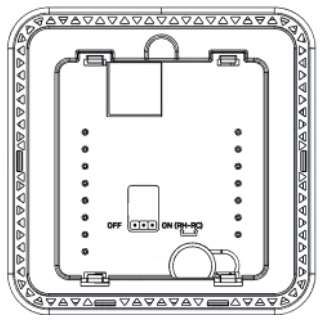


Make sure the arrow on the wall plate is pointing up and insert each of the wires into the terminals.

Press lever then insert corresponding wire.

Once all the wires are secure, screw self-tapping screws in to the top and bottom mounting holes of the wall plate; use the bubble level to ensure the wall plate is straight before tightening.

6



If your system has both RC and RH terminals; locate the red jumper on the back of the thermostat, and move it to the OFF position (covering the left and center pins).

7

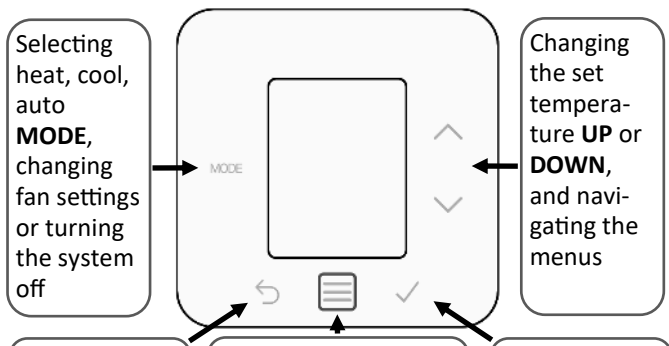
You can now mount your TQ1 thermostat on to the wall plate.

Ensure that the thermostat is the right way up (terminal pins at the bottom), align the thermostat over the terminals and push firmly. The thermostat should snap into place.

You may now return the power to your HVAC system and your TQ1 thermostat will power-up. The user menu will navigate you through the rest of the set-up process.

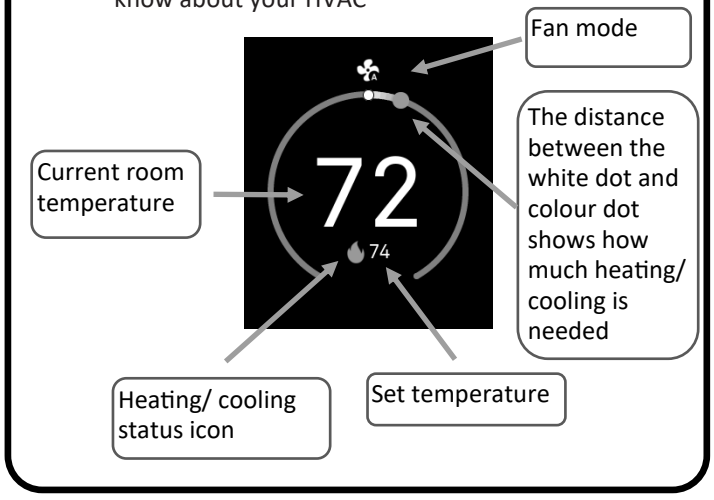
8

The TQ1 has 6 illuminated buttons to navigate menus and change settings.



9

The TQ1 displays all the information you need to know about your HVAC



matter

The TQ1 is compatible with all Matter-enabled controllers, this includes the smart-speakers from you favourite brands. In order to get connected, press the ‘menu’ button on TQ1 and select ‘Connectivity’. Open the ‘Add device’ option inside your preferred smart-home app and scan the QR code.

Most smart-home apps allow you to create ‘scenes’ or ‘automations’ depending on events (like coming home) or time of day. When the TQ1 receives this instruction, it will go to the desired mode and temperature.

If you set a schedule on the TQ1, then the TQ1 will return to its schedule at the next set-point change.

EME Americas
124 Broadkill Road, Milton DE, 19968

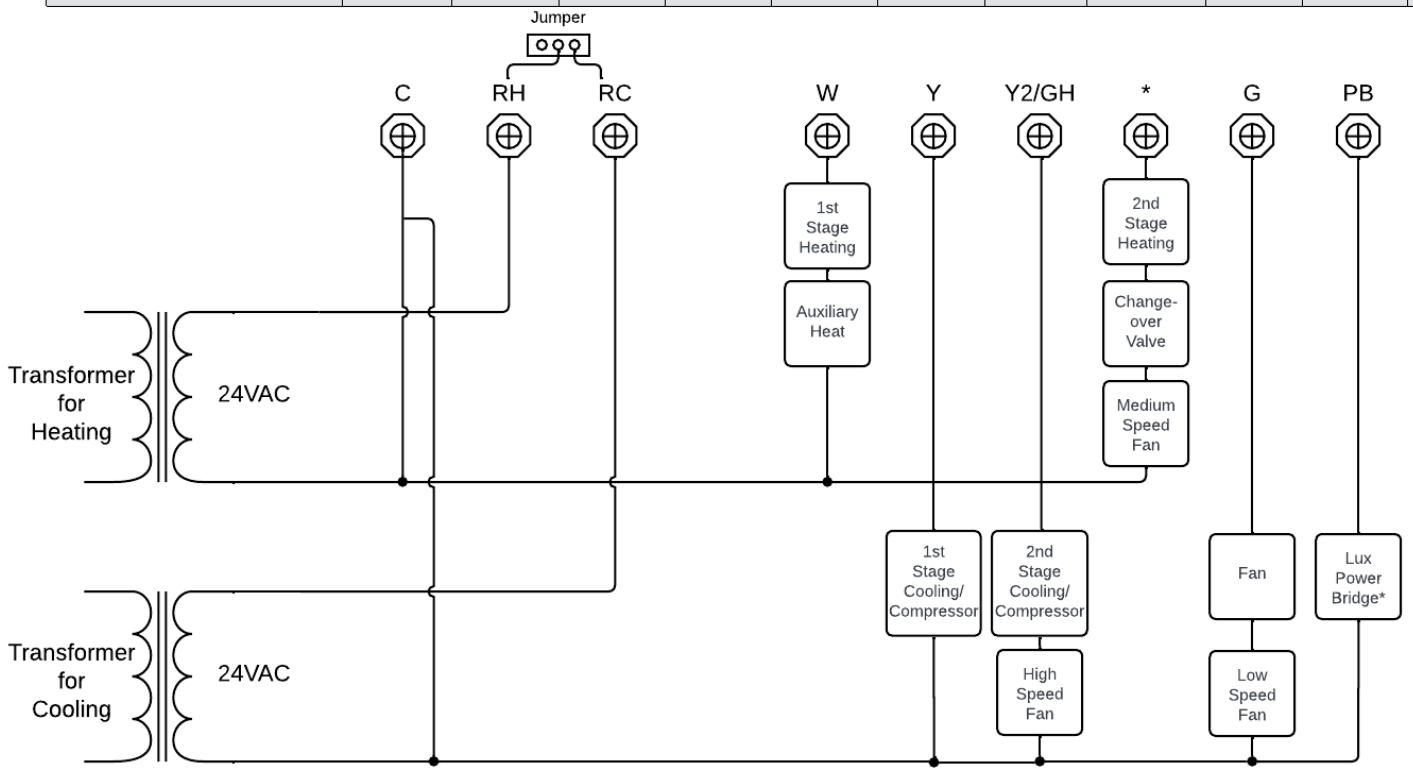
FCC Statement
This device complies with Part 15 of the FCC Rules Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance 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 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.

Wiring chart for all system types

	Live/ Neutral				Switched outputs								Wired inputs		
2H2C Conventional	C	RH	RC		W1	Y1	Y2	W2	G	PB			S1	S2	SC
3H2C Heat Pump	C	R	RC		W1	Y1	Y2	O/B	G	PB			S1	S2	SC
Conventional PTAC	C	R			W1	Y	GH	W2	GL				S1	S2	SC
Heat Pump PTAC	C	R			W1	Y	GH	O/B	GL				S1	S2	SC
2 Pipe FC	C	R			W	Y	GH	GM	GL				S1	S2	SC
4 Pipe FC	C	R			W	Y	GH	GM	GL				S1	S2	SC



Electrical Ratings

Power source: 19-30 VAC @50/60Hz, 40 VA, Class 2 or SELV
Output Rating: 1.0A resistive load per terminal, 5.0A resistive load combined total
Wire: Solid 18-22AWG, Stranded 20-22 AWG

Wiring chart for 1 heat, 1 cool conventional system with Lux Power Bridge

