

Herschel XLS Heating Controls

T-MT Mains powered Wifi thermostat

Installation and operating instructions



Technical Information

Power Supply:	Mains 120-240V or Micro USB
Installation:	Wall-mounted using recessed back-box (not supplied) or free-standing.
Setpoint Range:	5-40°C
Protection Class:	IPX0
Wireless:	433Mhz (RF) and 2.4GHz (Wifi)
Wireless Range:	35m
Accuracy:	+/- 0.5°C
Programming:	7 day program, 4 periods per day
Energy saving:	Open Window, Adaptive Start Smartlife App Control Works with Alexa and Google Assistant when paired with the Smartlife App
Warranty:	2 years
Certifications:	CE, RoHS, EMC, RED, LOT20

The product complies with European Safety Standards Low Voltage Directive 2014/35/EC, EMC Directive 2014/30/EC, RED Directive 2014/53/EC, RoHS 2011/65/EC & Ecodesign requirements for local space heaters 2009/125/EC.

Original instructions covering Herschel XLS controllers produced from 08/2019 onwards



T-MT Mains powered Wifi thermostat

Herschel T-MT is a mains or micro USB powered compact thermostat control designed to work exclusively with Herschel XLS heaters with their built-in SMART-R receiver.

T-MT also has Wifi capability to allow you to control your heating remotely via the Smartlife App or by voice control using Alexa or Google Assistant.

T-MT features a manual temperature mode, a 7x1 day program mode and a holiday (or Away) mode. All modes will operate your Herschel heater(s) by turning them ON if the room temperature is lower than the desired temperature and will turn them OFF once the desired temperature is reached or exceeded.

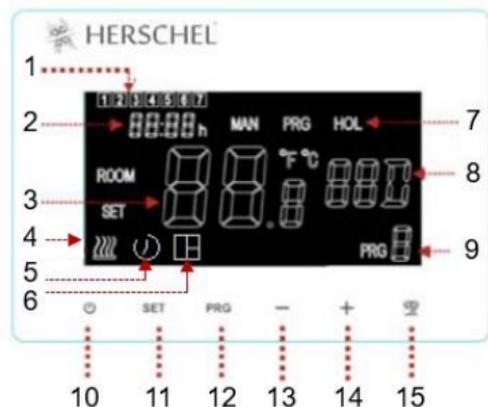
The T-MT is designed to be easy to operate and incorporates the latest energy-saving features including Herschel's open window technology and an adaptive start function ensuring your room is always at the right temperature with the least energy use.

The T-MT can be paired to more than one heater meaning multiple heaters within the room can be controlled with the same T-MT thermostat.

Please read these instructions in conjunction with the Herschel XLS panel instructions.

This appliance is rated IPX0 and must be installed outside of the splash zones in bathrooms.

Display & Buttons



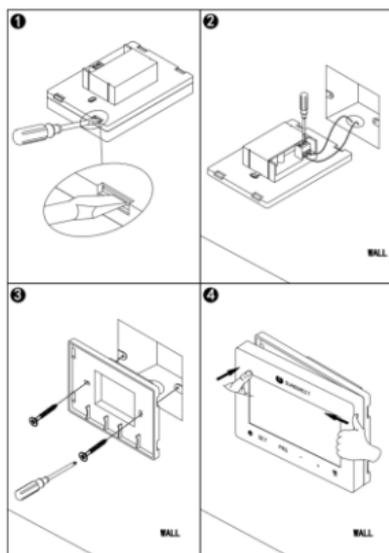
1. Day of week
2. Time
3. Temperature
4. Heating on symbol
5. Adaptive Start function enabled
6. Window Open function enabled
7. Operating Modes
8. Holiday (Away) Days remaining
9. Program number being run
10. Power On / Off
11. SET button
12. PRG Program button
13. Minus '-' button
14. Plus '+' button
15. Holiday Mode

T-MT can be wall-mounted using mains power or free-standing using the supplied micro USB plug

If possible, position the T-MT at least 2m away from the Herschel XLS heater.

Wall Mounting onto Back box & mains power

⚠ IMPORTANT: Ensure mains power is switched off before connecting



1. Gently open the T-MT case using a flat-headed screw driver.
2. The T-MT is a Class II electrical appliance and does not require an Earth connection. Please ensure when connecting the unit to the mains, that any Earth wire is either removed or insulated to prevent it accidentally touching the live or neutral terminals since this will damage the unit and invalidate your warranty.

Ensure wiring clamps are fully opened (unscrew anti-clockwise) before inserting mains wires.

Place Brown Live mains wire into the clamp marked "L" and the Blue Neutral wire into the clamp marked "N" and tighten both clamps securely.

3. Screw the rear casing of the T-MT onto the back box using bolts provided. When positioning the rear of the casing on the wall, be sure to position the vents at the bottom.
4. Place the front face of the T-MT over the rear casing and snap shut.

Free-standing using micro USB

1. Plug the supplied Micro USB adapter into the rear of the T-MT, attach to a USB power source of adequate voltage (such as a 5v phone charger).

Operating Instructions

Pairing the T-MT with the Heater

1. Double press the Pairing button on the SMART-R box of the heater. The green pairing status LED will start to flash and the heater is ready for pairing.
2. Ensure power is available to the T-MT, but that the power button on the unit is switched off. "OF" is shown on the display.
3. Long-press the SET button on the T-MT and the word "PAIR" will flash on the display.
4. When pairing has completed successfully, the green pairing status LED on the SMART-R box will become a steady green and the word "PAIR" on the T-MT will disappear.
5. You should not experience any difficulty in pairing, but in case you do, please ensure the T-MT and Heater are within range of each other and try the above process again.
6. Press the Power button on the T-MT to start using it to control the heater.

Managing your heating using your T-MT Controller

All the following steps can be performed using either the Smartlife App or the controller keypad. However the Smartlife App makes the controller very simple and convenient to operate. We recommend using the App to program the T-MT. If you do not intend using the App, please jump ahead to the section "Controlling the T-MT with its keypad".

About the Smartlife App

The Smartlife App is constantly evolving and future versions may have some differences to these printed instructions which were correct at time of printing. You can always find the most up to date version of the instructions by checking the T-MT controller product page on the Herschel website, where there is a link to the most up to date instructions.

Downloading & Installing the Smartlife App

Scan the QR code below to download the Smartlife App from the App Store or Google Play.

Alternatively, search "Smart Life" on Google Play or the App Store & look for this icon.



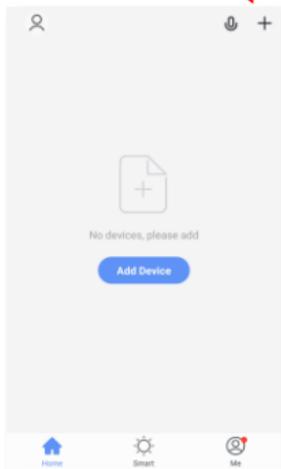
After installing and opening the Smartlife App, you must register an account using an email address and password and accept the terms of use.

To add your T-MT controller

Turn the T-MT off using the power button. Long-press PRG until the Wifi symbol flashes.

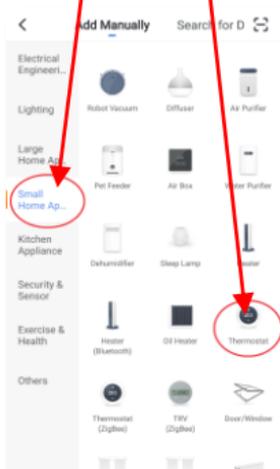
Tap '+' top right of App

Select "Small Home Appliances" and then "Thermostats"

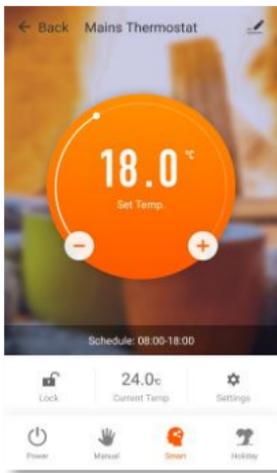


If this is your first thermostat you are adding you will be asked to enter your Wifi password.

You will not have to do this when you add subsequent thermostats to the App.



Give your T-MT a name and access the main screen.



Operations available on the App

From the main screen of the Smartlife app, you can access management features also available from the keypad of your T-MT:

- Power On / Off (turns off the T-MT and the heater)
- Temperature override (Orange circle with + and – buttons)
- Manual Operation
- “Smart” Operation (Program Mode)
- Holiday Mode
- Settings
- Controller Keypad lock

Explanation of operating modes

Smart / PRG mode

Your Herschel Select XLS heater works most efficiently when it is set up to run against a program controlled by the T-MT thermostat. This program will always ensure your room reaches the temperature you want at the time you want it, each day of the week. This is represented by the “Smart” function on the App, and by the PRG function on the T-MT keypad. So usually you will want to set up and run the unit in Smart / PRG mode. To enable Smart mode on the T-MT, touch the “Smart” icon on the App main screen and alter the program settings in “Settings”.

Manual / MAN mode

Selecting Manual (MAN) mode allows you to set and maintain a constant temperature that does not vary with the time of day. Once you set a temperature using Manual mode, the T-MT will maintain this temperature until you give the T-MT another command. Select Manual mode by touching the “Manual” icon on the App main screen and alter the temperature up or down using the + and – buttons.

Override

You can always override the Programmed or Manual set temperatures to be higher or lower by using the + or – keys on the App main screen or T-MT keypad to change the temperature. When operating on Smart / PRG mode, the T-MT will maintain the override temperature until the next programmed period (when the next programmed temperature will be set). Under Manual mode, the override temperature will remain set until you change it again manually.

Holiday Mode

There is also a Holiday (HOL) mode which allows you to save energy by setting a lower temperature while you are away. The HOL mode has a day-counter feature allowing you to set the number of days you are away and return the heating to normal operation ahead of your return.

Select Holiday mode by touching the “Holiday” icon on the App main screen. Select Days away using the slider and set your holiday temperature using the + or – buttons. We recommend ending holiday mode at least one day before your return to allow your house to warm back up again.

Other App functions

Settings

“Settings” on the App allow you to change:

- The Smart / PRG mode program schedules and temperatures;
- Temperature units (Centigrade or Fahrenheit);
- Calibration (Calibration is explained later in this manual);
- Adaptive start On or Off (Adaptive Start is explained later in this manual);
- Open Window Technology On or Off (Open Window is explained later in this manual);

Keypad Lock

The “Lock” function on the App main screen locks the keypad of the T-MT so no one can operate the controller from the device itself, until keypad lock is removed.

Device Details

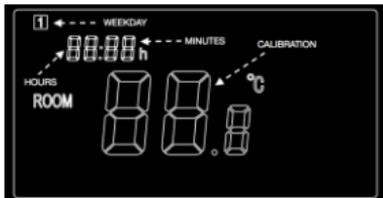
You can alter other details about your T-MT including enabling Alexa or Google Assistant or sharing control of your device with other members of your family by tapping the pencil icon at the top right of the App main screen.

If you begin to use Smartlife to control other Home Automation devices, then you can also integrate your T-MT control into other home automation tasks that you set up in Smartlife from the Device Details screen.

Controlling the T-MT with its keypad

Setting Time & Calibration

1. Press the SET button on the T-MT for 5 seconds to enter the settings mode. Day 1 of the week will begin to flash on the display.
2. Use the + or - keys on the T-MT to set the day of the week. (e.g. if 1 is Monday and today is Wednesday, press + until 3 flashes in the display.)
3. Press SET again to advance to change the minutes and use the + or - keys again to adjust.
4. Press SET again to advance to change the hour and use the + or - keys to adjust (it is a 24 hour clock).
5. Press SET again to Calibrate the temperature of the T-MT to match another thermostat. Calibration is not usually necessary and we explain its use later. If you need to Calibrate, perform this step here.
6. The T-MT automatically saves your changes as you enter them.
7. If you use the T-MT with the Smartlife App, your controller and phone will automatically synchronise time and date settings, making this step unnecessary using the Smartlife App.



Selecting & Using Operating Modes

To select Manual (MAN) or Programming (PRG) modes, press the PRG button until the mode you require is shown at the top of the display.

Manual Mode

Select the Manual mode by clicking the PRG button until MAN is shown on the display.

Use the + or - buttons to set the temperature you want the T-MT to maintain in the room.

Note that the T-MT will maintain this temperature 24 x 7 until you switch to another mode.

Program Mode

The T-MT comes with the following program defaults which you can keep or change.

Programming the T-MT

To change the program defaults, proceed as follows.

Set time & temperature for each day

Long-press PRG and the display will change to enable input of the time and temperature of the 4 periods for each day of the week, starting with the first period on day 1.

The Time will flash at the top left of the display.

Use + or – buttons to change the time. Press PRG to advance to the temperature setting which will then flash.

Use + or – buttons to change the temperature.

Press PRG to advance to the next period.

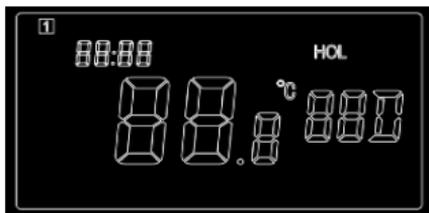
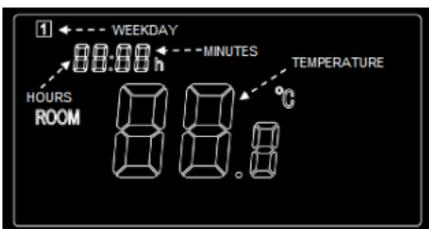
Repeat the above steps to complete the 4 periods for each day. For 7 days of the week this means a total of 28 programming steps.

After the final programming entry, the next click of PRG will return the unit to normal operation.

Holiday Mode

Holiday (Away) mode allows you to set a cooler fallback temperature to maintain in the house to save energy but avoid frozen water pipes. The mode has a countdown timer in which you can set up to 99 days away, ensuring your normal heating settings resume ahead of your return, allowing you to come back to a warm property.

	Mon - Fri	Sat - Sun
Period 1	06:30 21°C	08:00 21°C
Period 2	08:00 18°C	10:00 18°C
Period 3	18:00 21°C	18:00 21°C
Period 4	22:30 16°C	23:00 16°C



To set the countdown timer, long press on the Holiday (Palm Tree) button on the keypad. The “HOL” Mode is displayed and the days display will begin to flash.

Adjust the number of days you are away using + and – keys.

Press the Holiday button again to set the temperature to be maintained while you are away.

Alter the temperature using the + and – keys.

Press the Holiday button again to save and exit. The days number will count down daily until your entered number of days has elapsed and your thermostat will revert to its previous mode and settings. We recommend ending holiday mode at least one day before your return to allow your house to warm back up again.

To quit an active holiday mode, press the “PRG” button and select Manual or program modes.

Open Window Function

If the T-MT detects a temperature drop of more than 3°C within 15 minutes, the controller will power-off the heater. “OF” will appear on the screen and the text “Alarm! Open Window!” will be displayed. Pressing the Power button on the unit will resume normal operation, or waiting for 30 minutes will also restore normal operation.

Open Window detection will only work if the feature is activated and shown as an Open Window icon on the display (see display schematic on page 2). To activate the Open Window function, press “SET” and ‘+’ together for 3 seconds. To deactivate the Open Window function, repeat the process.

Adaptive Start

Adaptive start is an intelligent energy-saving feature which will turn on the heating in advance of the next scheduled time if the current temperature is more than 5°C below the next target temperature. (This avoids wasteful loads on the heater).

Adaptive Start will only work if the feature is activated and shown as a Timer icon on the display (see display schematic on page 2). To activate the Adaptive Start feature, press “SET” and ‘-’ together for 3 seconds. To deactivate, repeat the process.

Keypad Lock

To activate the keypad lock, press SET and Holiday Mode buttons together for 3 seconds. A shut padlock icon will appear on the screen. Press SET and Holiday Mode buttons together again for another 3 seconds to deactivate the keypad lock.

Calibration

Calibration is a process to alter the temperature of the T-MT up or down in order to align the unit with another thermostat. The T-MT can be calibrated 5°C up or down from the default of 0 (no calibration).

Calibrating UP (i.e. +1 °C etc) means the T-MT will display a higher temperature than the present one being shown. Use this when you think the T-MT is under-reading compared with another thermostat.

Calibrating DOWN (i.e. - 1 °C etc) means the T-MT will display a lower temperature than the present one being shown. Use this when you think the T-MT is over-reading compared with another thermostat.

When adjusting the T-MT Time & Temperature settings using the SET button, calibration is the final setting you can change. The default is 0. Use + or – keys to adjust this figure up or down.

You can also change calibration using the Smartlife App.

2 Year Warranty



Register your product here <https://www.herschel-infrared.com/customer-service/warranty-registration/> or via the QR code.

Within two years from date of purchase Herschel will repair or replace the T-MT where the fault is due to defects in materials or workmanship. This warranty is for standard domestic use only and excludes commercial uses. In the event of a warranty claim please visit the Customer Service area of the Herschel Website and follow the Warranty Claim process. You will need proof of purchase.

A prerequisite for validity of the warranty is use at the specified supply voltage of the thermostat and use in accordance with the conditions specified in this manual. Any further warranty or claims are excluded.

The warranty covers the repair or replacement of the defective product only and Herschel shall have no liability for installation costs or consequential losses however incurred. The decision to repair or replace will rest solely with Herschel and any replacement will be as close as possible in specification to the failed unit.

Removing the serial number will void the warranty. The warranty will also be void if the unit has been tampered with in any way.

The product rating label must be left on the unit. Herschel Infrared Ltd will assume no responsibility for scratches on the thermostat display or case after first use.

Note your serial number here for future reference.