

Herschel XLS Heating Controls

T-BT Battery powered wireless thermostat

Installation and operating instructions



Technical Information

Power Supply:	2 x AA Batteries (not included)
Installation:	Free-standing or wall-mount
Setpoint Range:	5-30°C
Protection Class:	IPX0
Wireless (RF):	433Mhz
Wireless Range:	35m
Accuracy:	+/- 0.5°C
Programming:	7 day program, 4 periods per day
Energy Saving:	Open Window, Adaptive Start
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-BT Battery powered wireless thermostat

Herschel T-BT is a compact battery-powered thermostat control designed to work exclusively with Herschel XLS heaters with their built-in SMART-R receiver.

T-BT 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-BT 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.

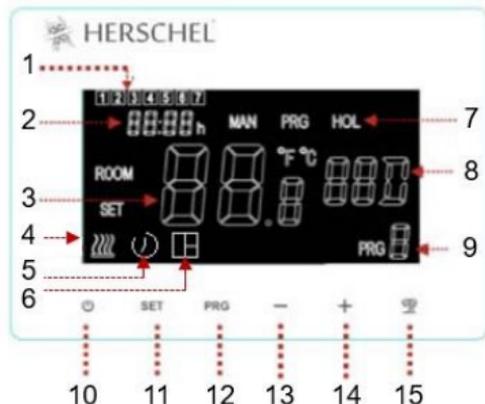
The T-BT can be paired to more than one heater meaning multiple heaters within the room can be controlled with the same T-BT thermostat.

The T-BT is not wifi enabled and will not work with the Smartlife App.

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

This appliance is battery operated but must be installed outside of the splash zones in bathrooms.

Display & Buttons

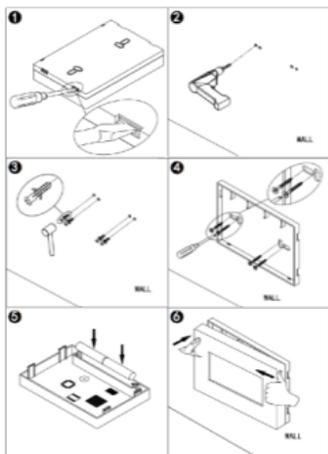


1. Day of week
2. Time
3. Temperature
4. Heating on symbol
5. Adaptive Start function enabled
6. Window Open function enabled
7. Operating Modes
8. Holiday (Away) Days remaining
9. Program number being run
10. Power On / Off
11. SET button
12. PRG Program button
13. Minus '-' button
14. Plus '+' button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

T-BT can be wall-mounted or free-standing

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

Wall Mounting

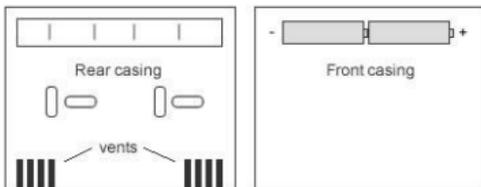


1. Gently open the T-BT case using a flat headed screw driver.
2. Use the rear of the casing as a template for marking your mounting holes and drill the holes.
3. Insert rawlplugs (not supplied).
4. Gently screw the rear casing of the T-BT onto the wall. The vents in the rear casing must be at the bottom. (See diagram below).
5. Insert 2 x AA Batteries (not supplied).
6. Place the front face of the T-BT over the rear casing and snap shut.

Free Standing

For free-standing use (for example placing on a shelf):

1. Gently open the T-BT case using a flat headed screw driver.
2. Insert 2 x AA Batteries (not supplied).
3. Place the front face of the T-BT over the rear casing ensuring the vents on the rear casing are at the bottom (see diagram below) and snap shut.

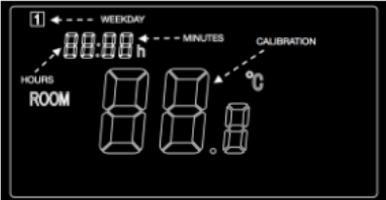


Operating Instructions

Pairing the T-BT 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. Press the Power button on the T-BT to turn the unit off. "OF" is shown on the display.
3. Long-press the SET button on the T-BT 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-BT will disappear.
5. You should not experience any difficulty in pairing, but in case you do, please ensure the T-BT and Heater are within range of each other and try the above process again.
6. Press the Power button on the T-BT to start using it to control the heater.

Setting Time & Calibration

1. Press the SET button on the T-BT for 5 seconds to enter the settings mode. Day 1 of the week will begin to flash on the display.
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2. Use the + or - keys on the T-BT 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-BT 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-BT automatically saves your changes as you enter them.

Selecting & using operating modes

Your Herschel Select XLS heater works most efficiently when it is set up to run against a program controlled by the T-BT thermostat. This program will always ensure your room reaches the temperature you want at the time you want it, each day of the week.

Usually you will want to set up and run the unit in Program (PRG) mode. You can always override the programmed set temperature to be higher or lower by using the + or – keys to change the temperature and the T-BT will maintain this override temperature until the next programmed period starts (when the next programmed temperature will be set).

Selecting Manual (MAN) mode allows you to set and maintain a constant temperature that does not vary with the time of day.

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.

Selecting the Operating Mode

To select Manual or Programming 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-BT to maintain in the room. Note that the T-BT will maintain this temperature 24 x 7 until you switch to another mode.

Program Mode

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

You can also decide if you want to manage days as a 5+2 schedule (weekdays the same and weekend days the same) or as a 7x1 schedule (all days different).

	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

Programming the T-BT

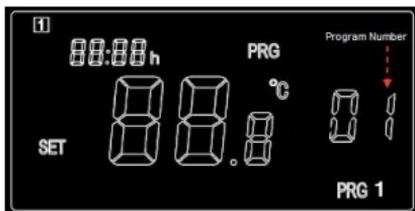
To change the program defaults, proceed as follows.

Select 5+2 or 7x1 programming modes

With Program Mode PRG selected, long-press the PRG button to commence programming.

Number 01 will flash on the display. This signifies choosing a 5+2 schedule.

Click the + button to change to '02' which signifies the individual day (7 x 1) schedule.



Set time & temperature for each day

Click PRG again and the display will change to allow input of the time and temperature of the first day.

Use + or – buttons to change the time.

Press PRG to advance to the temperature setting.

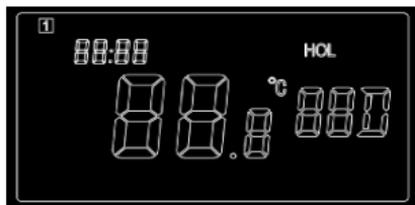
Use + or – buttons to change the temperature.

Press PRG to advance to the next period.

Repeat the above steps to complete the 4 periods for each day. On a 5+2 schedule this means a total of 8 programming steps. On a 7x1 schedule 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.



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-BT 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-BT up or down in order to align the unit with another thermostat.

The T-BT can be calibrated 5°C up or down from the default of 0 (no calibration). You can calibrate in steps of 0.5°C.

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

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

When adjusting the T-BT 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.

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-BT 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 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.