

Smart TRV

User Guide

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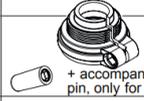
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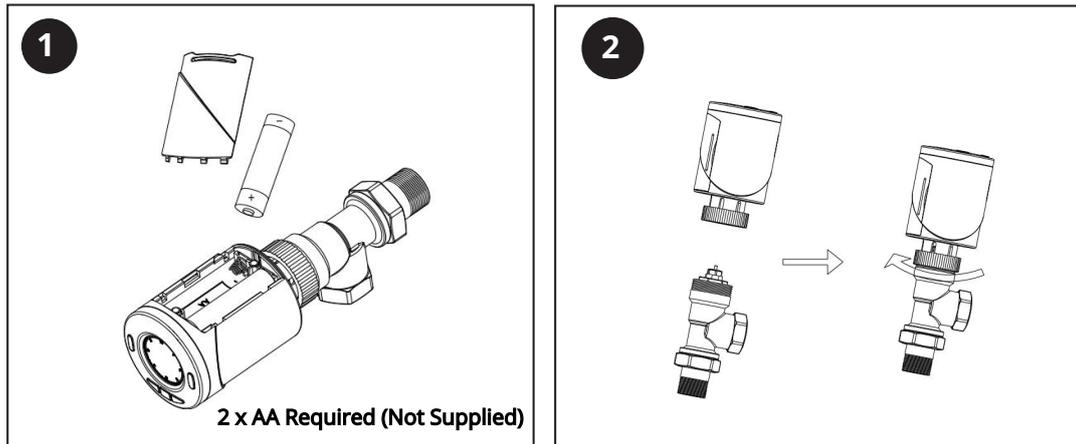
Technical Data

| | |
|-------------------------------|------------------------------------|
| Thermostat operating voltage: | 2 x AA1.5 V, alkaline batteries. |
| Backup storage: | EEPROM |
| Switching options: Frequency: | 7 days programming (4 periods/day) |
| Temperature settings: | 868Mhz |
| Accuracy: | 5°C ~ 35°C, in 0.5°C ± 1°C |
| Control: | PID |
| Thermostat dimensions: Max | φ55*69mm |
| Extension: | 5.0mm |
| Colour: | White |
| IP protection rating: | 20. |
| Certification: | CE, ROHS,RED |

Adapters

| | |
|---|--|
| Heimeier, Junkers Landys+Gyr, MNG, Honeywell, Braukmann thread-measure dimension of M 30x1,5 | no adapter required  |
| Danfoss RAV (accompanying pin must be plugged on the valve tapped) |  + accompanying pin, only for RAV! |
| Danfoss RA |  |
| Danfoss RAVL |  |

Setting Up The TRV's



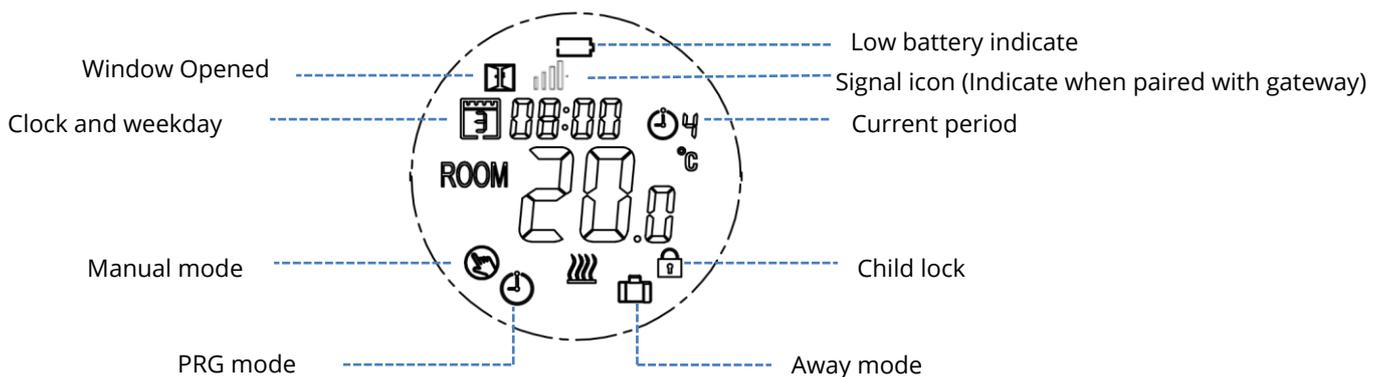
- 1) Once the batteries are installed, the TRV will display INIL, the TRV will now initialize.
- 2) Install the TRV onto your radiator, see step 2 above.
- 3) Once the TRV has initialized the display will change to AdAP 0
- 4) Press the UP button to change 0 to 1.
- 5) The TRV will now calibrate itself to the stroke of your valve body, the plunger in the TRV will move up and down to store the open and closed points of your valve.
- 6) Once the TRV has calibrated the main screen will be shown on the display.

Pairing the TRV's

Note: Before adding TRV HT-10R to the APP, please make sure you have added the E-hub.

- 1) Open the APP and select the WIFI gateway, press add sub device and then press heater.
- 2) Turn off the TRV by pressing ON/OFF button
- 3) Press and hold the M button until the display shows FF
- 4) Press the Up button to enable the TRV to become visible, there will now be three signal lines moving across the top of the display.
- 5) Select "Confirm indicator rapidly blink" on the APP.
- 6) Wait a moment until the connection is complete.

Display



TRV Settings

Mode setting (Press the M button to choose)

- Manual mode (manual on/off)
- Away mode - pre set temperature set when in this mode, please note this temperature can not be set below the Min Set Point (default 5°C), this can be changed in the parameter settings, menu 03 as below.
- PRG mode (timer)

Clock & Weekday setting

Press and hold the P button for 5s, set the clock (Min-Hour-Weekday) by the pressing UP and DOWN buttons, press the P button to move onto next setting.

7 days programmable setting

After the clock has been set, press P to go to PRG schedule setting.

Set the schedule (Weekday-Period-Start time-Temp.) by pressing the UP and DOWN buttons, press the P button to move onto next setting.

Default Timer Setting:

| Period | 1 | | 2 | | 3 | | 4 | |
|-------------------|------|------|------|------|-------|------|-------|------|
| | Time | Temp | Time | Temp | Time | Temp | Time | Temp |
| 12345 (Mon.~Fri.) | 7:00 | 22°C | 8:30 | 19°C | 17:00 | 22°C | 22:00 | 19°C |
| 6 (Sat.) | 8:00 | 22°C | 8:30 | 22°C | 17:00 | 22°C | 22:00 | 19°C |
| 7 (Sun.) | 8:00 | 22°C | 8:30 | 22°C | 17:00 | 22°C | 22:00 | 19°C |

Parameter Setting

Turn off the thermostat, press and hold the M and UP buttons together for 5s until it shows 01, this will be the first setting as shown below (Temp. calibration for internal sensor) and will show the default setting of 0.0°C, to move through the menu press the M button to go to the next item, adjust the range by using the UP and DOWN buttons.

| Menu | Description | Range | Default |
|------|---------------------------------------|---|------------|
| 01 | Temp. calibration for internal sensor | -0.8°C~8°C | 0°C |
| 02 | Max Set Point | 05°C~35°C | 35°C |
| 03 | Min Set Point | 5°C~35°C | 5°C |
| 05 | Frost Protection Temp | 5°C~15°C | 5°C |
| 10 | Display | 0: Room temp 1: SET temp | 0 |
| 12 | Open window detect function | 1: ON 0: OFF | 0 |
| 13 | OWD Detect Time | 22s~3 Mins | 15 Mins |
| 14 | OWD Drop temp select | 2,3,4°C | 2°C |
| 15 | OWD Delay time select | 110~16 Mins | 30 Mins |
| 17 | Factory reset | 0: No 1: Yes, Press and hold on/off button for 5 seconds, release to reset TRV | 0 |
| 18 | Software version | | |
| 19 | Software version | | |
| 31 | Battery voltage | Unit: 10mV | Unit: 10mV |
| 32 | PID P-band select | 2°C~10°C | 7°C |
| 33 | PID I-time select | 30~90 Mins | 30 Mins |

When the Open Window mode is enabled in the parameter setting, the system will automatically stop heating when it detects a sudden drop of room temperature (2°C in 15 minutes as default). This is normally caused when a window or door is opened without turning off the heating device.

The device will return to the previous mode of operation after 30mins, then **OP** disappear. Press any button will exit OWD function during the heating off period.

Aftercare

Clean any marks with a soft dry or damp cloth, if you are unsure, please contact us first.

Your Guarantee

- This product is covered by a 3 year guarantee.
 - The guarantee starts from the date of purchase.
 - The guarantee covers you against issues caused as a result of manufacturing related issues, it does not apply to issues that are found to be a result of poor installation.
 - Labour costs for installation of the product are not covered under this warranty.
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Recycling and Disposal

Please recycle the packaging in accordance with your local government regulations on waste handling, and follow the same advice at the end of the products life. Do not recycle the element in your general waste.

Product - ABS.

Packaging - Cardboard.

Contact us

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Burnley

Lancashire

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