# Operating Guide:

## for the Warmup **Tempo** Digital Programmable Thermostat
## Part of the Element Series

**Warmup**

## Introduction
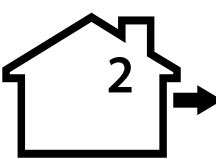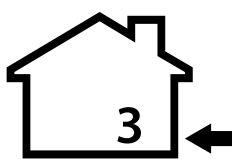
The **Tempo** has been designed with simplicity in mind and is highly intuitive in its programming. The sliders and simple rotary control make the setting of the thermostat quick and easy.
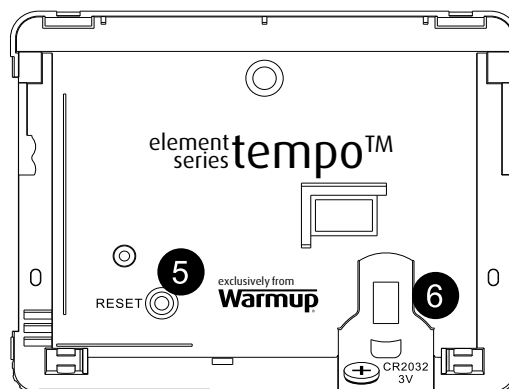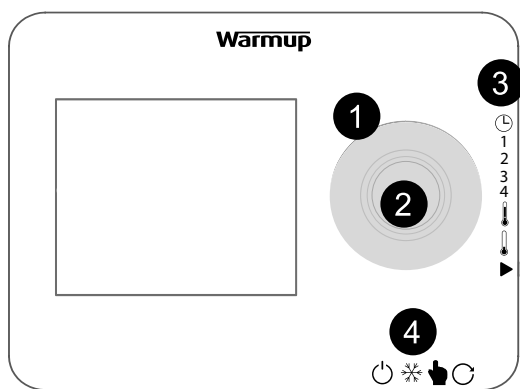


(1)    **Rotary Control** (Turn clockwise to increase and anti clockwise to decrease.)
(2)    **Main Button**
(3)    **Program Slide** control (only used during programming)
(4)    **Mode Slide** control
(5)    **Reset Button**
(6)    Replaceable CR2032 battery
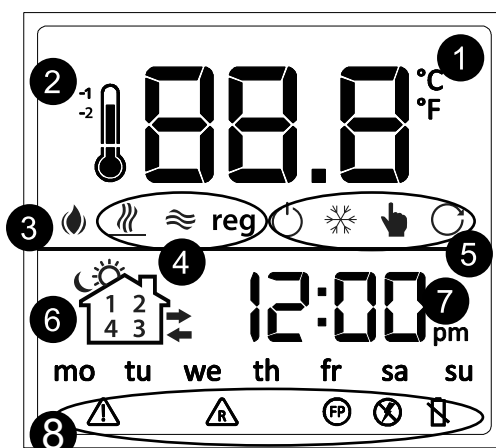


| | |
|---|---|
| 1. | Normally shows the current temperature in the room. This can be either the floor temperature or the air temperature. (See icon 4). When you are setting a program or manual temperature this icon will Temporarily show the set temperature. |
| 2. | During programmed operation this thermometer will show whether the thermostat is at "Comfort" or "Setback" temperature. The icon will be displayed when "Comfort -1/ -2 is the target temperature. (Only used with the Fil Pilote) |
| 3. | This icon is displayed when the heating is on. |
| 4. | These icons show the type of temperature regulation being used. Floor Sensor ≋ Air Sensor ≈ Regulator **reg** (This mode should only be used in special situations, please contact Warmup for additional information). |

| 5. | These icons show the mode in which your thermostat is being used: |
|---|---|
| | ↻ ➡ Program mode will run the scheduled program |
| | ☛ ➡ Manual mode will hold a fixed temperature |
| | ❄ ➡ Frost Protection will not allow the temperature to fall below 5°C |
| | ⏻ ➡ Standby mode |
| | **NOTE:** When the thermostat displays both the manual and comfort icon the thermostat is in a manual override and will hold a fixed temperature until the next scheduled program period. |
| 6. | These icons show which time of day is being programmed. |



|  | Morning | Day | Evening | Night |
|---|---|---|---|---|

| 7. | This area shows the current time and day of the week. |
|---|---|
| 8. | These are error icons (see trouble shooting section) or special command icons: |
| | (FP) ➡ Fil Pilote |
| | ⚠ ➡ Floor sensor error |
| | ⚠ ➡ Overheat limit has been reached |
| | ⊗ ➡ There is no mains power |
| | 🔋 ➡ Battery is low |

## Getting started

In order to program the **Tempo** thermostat all you need to do is slide the **Program Slide** control from the top position to the bottom position, customising the program along the way.

If you make a mistake, return the **Program Slide** control to the previous position and start again. In order to change a setting value, turn the **Rotary Control**. Pressing the **Main Button** will accept the value and move you on to the next value that needs setting.

The **Tempo** thermostat has a number of "Installer Settings". If your thermostat has been installed correctly and is working then it is unlikely that you will need to change these again. For additional details see "**Installer settings**" section.

Your thermostat can be set so that the programming is done for "all days the same", "weekday and weekend" or "7 day". To change this setting, see the **"set time/day"** section.

## Programming the thermostat

To program your thermostat all you need to do is move the **Program Slide** control on the right hand side of your thermostat from top to bottom. The table below will explain what you can do at each step.

| Set Time /Day | 🕐 | Turn the **Rotary Control** to change the current clock time. Once the clock time has been set, press the **Main Button**, you will now be able to set the day of the week. Turn the **Rotary Control** to select the correct day.<br><br>Your thermostat will by default allow you to set a weekday and weekend program (5-2d). If you would like to set "all days the same" (1d)  or "7 day" programs (7d) then hold the **Main Button** for 5 seconds whilst in the set time/day slide position. Once in this mode, turning the **Rotary Control** will allow you change this setting. Push the **Main Button** or move the **Program Slide** to accept the value.<br><br>Once you have set the time and day, move the **Program Slide** to the next position to accept the value. |
|---|---|---|
| Set Timing | 1<br>2<br>3<br>4 | When in any of these positions you can set the start time for "morning" (1) "day" (2), "evening" (3) and "night " (4) periods.<br>The "morning" and "evening" periods will follow the comfort temperature, "day" and "night" periods will follow the setback temperature.<br><br>Using the **Rotary Control,** select the start time and press the **Main Button** to move to the next day.<br><br>If you hold the **Main Button** for 3 seconds it will copy the start time to the next day.<br><br>**Tip -** If you want to set the thermostat so that it is keeping the comfort temperature all day and only setback at night, then just set the "day" start time equal to the "evening" start time. |
| Set Temperatures | 🌡️ 🌡️ | Here you can set the temperature which will be used for the comfort and setback temperatures. |
| Done | ▶ | Move the **Program Slide** control to the lowest position in order to start your thermostat. Heating will not occur if the **Program Slide** control is not in this position. |

## Selecting your mode

Your thermostat can be set to run a program, hold a fixed temperature, efficiently protect your home from freezing or standby. You can select these modes by moving the **Mode Slide** control on the bottom of your thermostat.
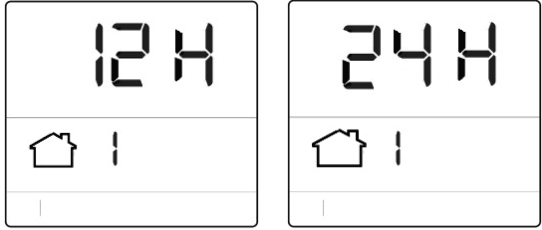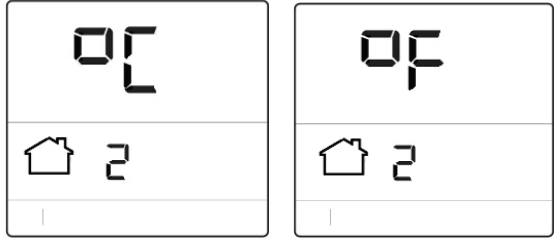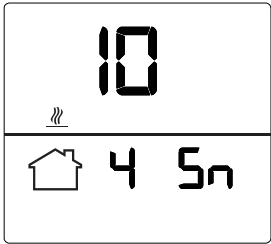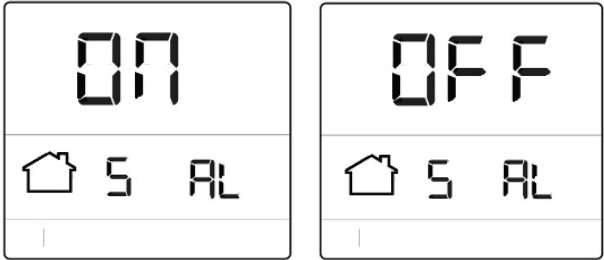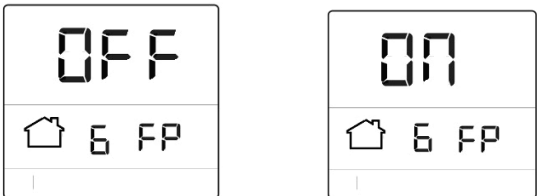
| Standby | ⏻ | The thermostat will not come on.<br><br>NOTE: The thermostat is still connected to the mains electricity supply and your heating system is not isolated. **Always isolate from the mains before undertaking any maintenance.** |
|---|---|---|
| Frost Protection | ❄ | The thermostat will not let the temperature fall below 5°C. |
| Manual | 👆 | The thermostat will hold a fixed temperature. Just turn the **Rotary Control** to change the temperature. |
| Auto | ↻ | In this position your thermostat will run the program you have set.<br>If you would like to Temporarily adjust the temperature, just turn the **Rotary Control**. At the start of the next heating period, your thermostat will automatically resume your programming schedule. |

## Installer settings

These are settings that should be set by the installer of the thermostat and are unlikely to need to be changed again during the product's life.

To enter the installer setting mode, first ensure that the Tempo thermostat is powered up. Once powered, remove the thermostat front module from the wall plate. Press and hold the **Main Button** whilst re-attaching the front module to the wall plate.

Once in the installer setting mode you can turn the **Rotary Control** to change your selection and press the **Main Button** to accept your setting and proceed to the next step. Once you have completed all the steps you will automatically exit the installer setting mode.

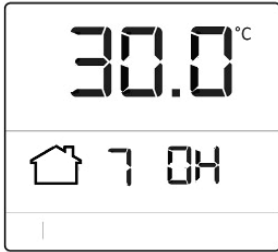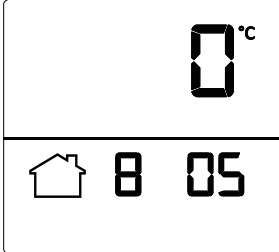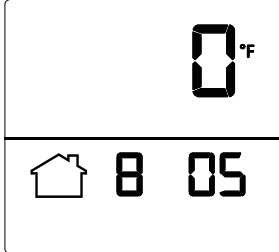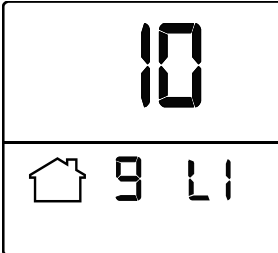| Installer Step | Setting Configured | Default Value | LCD Example |
|---|---|---|---|
| 1. | Change clock format (12hr/24hr) | "24" | |
| 2. | Change unit of measurement (Degree C/F) | °C | |
| 3. | Change sensor used to target temperature (Floor/ Air/ Regulator)  **Note**: In regulator mode the thermostat will run for a set number of minutes in a 10 minute cycle. | Floor | |
| 4. | Set Floor Sensor Type  If you already have a sensor installed a sensor for a different model thermostat you can use this setting to change the sensor value and allow the thermostat to function. The possible options are NTC 10K (probe supplied with the **Tempo**) NTC 12K (probe supplied by Warmup with previous models of thermostat). **Note**: Warmup can only validate the thermostats performance when used with a Warmup probe supplied with the **Tempo**. | 10K | |
| 5. | Decide whether the thermostat uses Adaptive Learning to pre heat the room for your schedule. | On | |
| 6. | Fil Pilote (France only)  The thermostat can obey the 6 standard commands of fil pilote (pilot wire) Contact Warmup for additional details. | Off | |

| 7. | Set Overheat limit to protect your floor.<br><br>Please note, the **Tempo** will only allow you to set a temperature 2°C/4°F lower than the Overheat limit | 30°C | **30.0** °C<br><br>⌂ 7 OH | **Maximum Overheat Limits** | |
|---|---|---|---|---|---|
| | | | | Tiles | 40°C / 104°F |
| | | | | Stone | 40°C / 104°F |
| | | | | Wood / Laminate | 28°C / 86°F |
| | | | | Carpet | 28°C / 86°F |
| | | | | Vinyl | 28°C / 86°F |
| 8. | Set an offset value to calibrate the temperature reading of your thermostat sensors | 0°C | **0** °C<br><br>⌂ 8 O5 | **0** °F<br><br>⌂ 8 O5 | |
| 9. | This option will only become available if *Installer Step 3* is switched to Regulator (REG) Mode.<br><br>Set the maximum duty cycle length to either 2-10 minutes per 10 minute cycle. | 10 | **10**<br><br>⌂ 9 LI | | |

## Error messages / Trouble shooting

| | |
|---|---|
| The thermostat is not controlling the temperature | Ensure that the **Program Slide** is in the run position (lowest point) and that the **Mode Slide** control (bottom) is in the manual or program positions. |
| Floor sensor error | If you see the floor sensor error icon ⚠ or " - - " on the screen it means that your thermostat has been unable to detect the temperature of the floor. Please contact Warmup. |
| Overheat | If you see the overheat icon ⚠ this means that your floor has become too hot and the heating has been suspended. Please contact Warmup. |
| Low battery | The low battery icon 🔋 will display when the battery needs to be replaced. The thermostat must be connected to the mains electricity supply in order to work, it is not designed to be used with an intermittent power supply. If the battery is not installed then your thermostat will not be able to maintain the clock time if power is lost. |
| Heating starts too early | If your heating is coming on too early, then this may be because the Adaptive Learning function is turned on. This function allows your thermostat to learn how long it will take to heat up to ensure it is the correct temperature at the start of the comfort periods. See "installer settings" section of this guide. |
| Incorrect calibration | Your thermostat should not need any calibration, however if you would like to apply an offset to the temperature settings see the "**installer settings**" section. |
| No mains electricity | If you see the no mains power icon ⊗ this means that the thermostat is not receiving power. Check that the thermostat logic module is properly installed on the power module and that the 230V mains electricity supply is connected. |
| Regulator mode (Reg) is displayed | In this mode your thermostat will come on for a set number of minutes in a 10 minute cycle. The thermostat will not use the temperature for control. Please contact Warmup for additional details. |
| Fil Pilote (FP) is displayed | The thermostat can obey the 6 standard commands of fil pilote (pilote wire). Please contact Warmup for additional details. (France only) |
| HI or LO is displayed | The thermostat will display "HI" if the ambient temperature exceeds 50°C (122°F) and "LO" when the ambient temperature falls below 0°C (32°F). |

## Warranty

Warmup plc warrants this product, to be free from defects in the workmanship or materials, under normal use and service, for a period of three (3) years from the date of purchase by the consumer. If at any time during the warranty period the product is determined to be defective, Warmup shall repair or replace it, at Warmup's discretion.

If the product is defective, please either,

       (i) return it, with a bill of sale or other dated proof of purchase, to the place from which you purchased it, or

       (ii) contact Warmup. Warmup will determine whether the product should be returned, or replaced.

This warranty does not cover removal or reinstallation costs, and shall not apply if it is shown by Warmup that the defect or malfunction was caused by damage which occurred while the product was in the possession of the end user.

Warmup's sole responsibility shall be to repair or replace the product within the terms stated above.

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This Warranty does not affect your statutory rights.

## Please register your product at: www.warmup.co.uk

## Customer care

For any questions regarding product installation or operation, please contact Warmup at:

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F: 0345 345 2299
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