### Description

1.1 The Dual touch programmable thermostat has three temperature control modes:

- **A mode**: controls the ambient air temperature
- **F mode**: controls the floor temperature using an external temperature sensor
- **AF mode**: controls the ambient air temperature and maintains the floor temperature within desired limits using an external temperature sensor

### 1.2 Preset Temperatures

The thermostat has 3 modes of temperature operation:
- Comfort temperature
- Economy temperature
- Vacation temperature

The following table shows the intended use and the default setting of each of the preset temperatures.

<table>
<thead>
<tr>
<th>Mode</th>
<th>A/AF mode</th>
<th>F mode</th>
<th>Towel Rail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comfort (when at home)</td>
<td>21°C</td>
<td>24°C</td>
<td>As per heated towel rail specifications</td>
</tr>
<tr>
<td>Economy (when asleep or away from home)</td>
<td>17°C</td>
<td>16°C</td>
<td></td>
</tr>
<tr>
<td>Vacation (during a prolonged absence)</td>
<td>10°C</td>
<td>10°C</td>
<td></td>
</tr>
</tbody>
</table>

### Modes of Operation

The thermostat has 4 modes of operation:

#### 2.1 Automatic mode

- Use the scheduling time to control temperature.

#### Programmed Schedule

The schedule consists of 4 periods per day, which represents a typical week day. You can program the thermostat to skip the periods that do not apply to your situation. For example, you can skip periods 2 and 3 for the weekend.

<table>
<thead>
<tr>
<th>Period</th>
<th>Temperature</th>
<th>MON</th>
<th>TUE</th>
<th>WED</th>
<th>THU</th>
<th>FRI</th>
<th>SAT</th>
<th>SUN</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Comfort</td>
<td>5:30</td>
<td>5:30</td>
<td>5:30</td>
<td>5:30</td>
<td>5:30</td>
<td>6:00</td>
<td>6:00</td>
</tr>
<tr>
<td>2</td>
<td>Economy</td>
<td>8:00</td>
<td>8:00</td>
<td>8:00</td>
<td>8:00</td>
<td>8:00</td>
<td>9:00</td>
<td>9:00</td>
</tr>
<tr>
<td>3</td>
<td>Comfort</td>
<td>18:00</td>
<td>18:00</td>
<td>18:00</td>
<td>18:00</td>
<td>18:00</td>
<td>18:00</td>
<td>18:00</td>
</tr>
<tr>
<td>4</td>
<td>Economy</td>
<td>21:30</td>
<td>21:30</td>
<td>21:30</td>
<td>21:30</td>
<td>21:30</td>
<td>21:30</td>
<td>21:30</td>
</tr>
</tbody>
</table>

#### 2.2 Manual Mode

The temperature must be set manually. You can modify the preset temperature by pressing the buttons when the thermostat is in automatic mode. The new temperature will be used until the beginning of the next period.

#### 2.3 Vacation Mode

The thermostat uses the vacation preset temperature to control this mode.

#### 2.4 Towel Rail Heating Mode

The following table shows the intended use and the default setting of each of the preset times.

<table>
<thead>
<tr>
<th>Period</th>
<th>Temperature</th>
<th>MON</th>
<th>TUE</th>
<th>WED</th>
<th>THU</th>
<th>FRI</th>
<th>SAT</th>
<th>SUN</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>As per heated towel rail specifications</td>
<td>8:00</td>
<td>8:00</td>
<td>8:00</td>
<td>8:00</td>
<td>8:00</td>
<td>9:00</td>
<td>9:00</td>
</tr>
<tr>
<td>2</td>
<td>16:00</td>
<td>16:00</td>
<td>16:00</td>
<td>16:00</td>
<td>16:00</td>
<td>16:00</td>
<td>16:00</td>
<td>16:00</td>
</tr>
<tr>
<td>3</td>
<td>21:30</td>
<td>21:30</td>
<td>21:30</td>
<td>21:30</td>
<td>21:30</td>
<td>21:30</td>
<td>21:30</td>
<td>21:30</td>
</tr>
</tbody>
</table>
3. User Setting Operation

3.1 Date setting

- Press to select Date and press to confirm.
- Press to adjust the year and press to confirm. This will then switch to the month setting.
- Continue setting up the year, month, date and the day (Monday to Sunday).
- Complete setting up the date and day, then switch to the next setting.
- Press to exit.

3.2 Time setting

- Press to select Time and press to confirm.
- Press to adjust the hour and press to confirm. This will then switch to the minute setting.
- Continue setting up the hour and minute (the current setting item will flicker).
- Complete setting the minutes, then switch to the next setting.
- Press to exit.

3.3 Mode setting

- Press to adjust the temperature and press to confirm.
- Press to confirm and then set the minute setting.
- Press to exit the mode setting and press it again to exit the user setting.

3.4 Schedule setting

- Press to select Sched and press for the setup and the current day of the week will flash.
- Press to select the week and to confirm. It now switches to the hour setting. Press to adjust the hour or adjust to blank and skip the hour setting.
- Press to confirm and then set the minute setting. If you adjust to blank, then it will skip periods 1 and 2.
- Press to adjust the temperature and press to confirm and switch to the next period setting.
- After setting up all periods, press to exit the scheduled setting and press it again to exit the user setting.

3.5 Towel Rail setting

- Press to select Towel and press for the setup, and will flash.
- Press to adjust the hour or adjust to blank and skip the hour setting.
- Press to confirm and then set the minute setting. If you adjust to blank, then it will skip to the next period.
- Press to adjust the temperature and press to confirm and switch to the next period setting.
- After setting up all periods, press to exit the scheduled setting and press it again to exit the user setting.

3.6 Clean Screen setting

- Press to select Clean and press to confirm.
- All keys will lock in 10 seconds.
- Press to exit.

3.7 Brightness setting

- Press to select Bright and press to confirm.
- Press to adjust the brightness and press to confirm [Range: 1 - 5].
- Press to exit.

4. Error Messages

<table>
<thead>
<tr>
<th>Error Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>L0</td>
<td>The measured air temperature is below the thermostat's display range. Heating is activated.</td>
</tr>
<tr>
<td>H1</td>
<td>The measured air temperature is above the thermostat's display range. Heating is deactivated.</td>
</tr>
<tr>
<td>L0</td>
<td>The measured floor temperature is below the thermostat's display range. Heating is activated.</td>
</tr>
<tr>
<td>H1</td>
<td>The measured floor temperature is above the thermostat's display range. Heating is deactivated.</td>
</tr>
</tbody>
</table>

5. Technical Specifications

- **Power supply:** 90/260 VAC, 50 Hz
- **Maximum load:** 10A (Towel rail); 16A (Floor)
- **Display range:** -5 °C to 50 °C
- **Ambient setpoint range (A/AF modes):** 0 °C to 35 °C
- **Floor setpoint range (F mode):** 5 °C to 40 °C
- **Floor limit range (AF mode):** 0 °C to 40 °C
- **Display resolution:** 0.1 °C
- **Operating temperature:** 0 °C to 50 °C
- **Storage temperature:** -20 °C to 50 °C
- **Heating cycle length:** Refer to the power base's installation guide. Temperature sensor: NTC thermistor

**Data backup:** In the event of a power failure, most settings are saved. Only the time must be re-adjusted if the power failure lasts more than 6 hours. The thermostat will return to the mode that was active prior to the power failure.

**Warranty** - THREE (3) YEAR WARRANTY

This product is warranted against defects in material and workmanship under normal conditions of use for a period of 3 years from the date of purchase. During this period, WARMUP will repair or replace the product, if it is defective in normal operating conditions in terms of materials or workmanship, with a new product of equivalent quality at WARMUP’s option.

The warranty does not cover costs of transportation, removal, installation or damage caused by misuse or accident. In no event will WARMUP be liable for consequential loss resulting from the installation of the product. Any defective product should be sent with the original invoice to the original installer, or shipped pre-paid, insured and sent to the following address:

**WARMUP New Zealand Ltd**
483A Rosebank Road,
Avondale, Auckland,
New Zealand

**Warmtech Heating Systems**
20 Sunny Bank Road,
Lisarow, NSW 2250,
Australia

**Customer Assistance**

If you have any questions concerning the installation or operation of this product, call our technical support team on:

**Phone:** 0800 WARMUP (927-687) **NZ** / 1300 138 126 **AU**

**Email:** info@warmup.co.nz / info@warmtech.com.au

For more information on our products, visit us at:

warmup.co.nz / warmtech.com.au