**TH1400WF Installation Guide**

**Smart Low voltage Thermostat (24 Vac)**

**INSTALL YOUR THERMOSTAT**

1. Unlock and lift the thermostat cover.
2. If necessary, mark and drill the appropriate fastening holes, using the installation template. If needed, use the wall anchors included.
3. Depending on the heating system, insert each wire into its terminal and screw firmly. (See connection layouts outlined in the following pages.)
4. Use the provided screws and wall anchors to fix the thermostat base on the wall.
5. Replace back and lock the thermostat cover.
6. Power up the thermostat.

**AUXILIARY OUTPUT**

The thermostat provides an auxiliary heating output that can act as a second stage of heating when controlling ambient temperature. If the room temperature is too far from the setpoint or the main stage of heating has difficulties raising the temperature, the auxiliary output activates the secondary heating source to reach the set temperature.

Both outputs can control different types of heating load and can be configured in the user settings.

**WIRING LAYOUT**

**Electric baseboard**

- **24 V**
- **120 V**
- **240 V**

- **C**
- **R**
- **W1**
- **W2**
- **S1**
- **S2**

**Electric floor heating with electric baseboard on the 2nd heating stage**

- **24 V**
- **120 V**
- **240 V**

- **C**
- **R**
- **W1**
- **W2**
- **S1**
- **S2**

**Hot water valve**

- **347 V**
- **24 V**
- **24 Vac**

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**CONNECTION OF THE FLOOR SENSOR (OPTIONAL)**

**ADD YOUR THERMOSTAT TO NEVIWEB**

Only for control applications in floor (F) mode or with floor limit.

1. If you do not have an account yet, download the Neviweb app for iOS or Android to open an account and add your device.
2. Tap the button then select “Add Device”.
3. Follow the steps of the Installation Wizard.
The thermostat features two temperature control modes:

A mode (default): Regulation of ambient temperature with the possibility to limit floor temperature through an external temperature sensor.

F mode: Regulation of floor temperature through an external temperature sensor with the possibility to limit ambient temperature.

### Parameters That Can Be Controlled From the Device:

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Parameters &amp; Settings</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Temp</td>
<td>Temperature format °C or °F – (Default: °C)</td>
<td>OC</td>
</tr>
<tr>
<td>2</td>
<td>Cntmt</td>
<td>Control mode of thermostat A (N) or F (foot) – (Default: A)</td>
<td>R</td>
</tr>
<tr>
<td>3</td>
<td>Max A</td>
<td>Maximum ambient temperature limit 1 °C to 36 °C – (Default: OFF)</td>
<td>OFF</td>
</tr>
</tbody>
</table>

### Parameters That Can Be Controlled From the Device (Continued):

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Parameters &amp; Settings</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Min Floor</td>
<td>Minimum floor temperature limit 7 °C to 36 °C – (Default: OFF)</td>
<td>OFF</td>
</tr>
<tr>
<td>5</td>
<td>Max Floor</td>
<td>Maximum floor temperature limit 5 °C to 36 °C – (Default: OFF)</td>
<td>OFF</td>
</tr>
<tr>
<td>6</td>
<td>Cyc</td>
<td>Cycle length / Min output (S) 15 sec. 5 min. 10 min. 15 min. 20 min. 25 min. 30 min. – (Default: 15 min)</td>
<td>IS</td>
</tr>
<tr>
<td>7</td>
<td>Aux Cyc</td>
<td>Cycle length / Auxiliary output OFF. 15 sec. 5 min. 10 min. 15 min. 20 min. 25 min. 30 min. – (Default: OFF)</td>
<td>OFF</td>
</tr>
<tr>
<td>8</td>
<td>Sensor</td>
<td>Floor sensor NO or NC – (Default: NO)</td>
<td>IO</td>
</tr>
<tr>
<td>9</td>
<td>PE</td>
<td>Circulator pump's anti-seizure ON or OFF (Default: OFF)</td>
<td>OFF</td>
</tr>
</tbody>
</table>

### Parameters That Can Be Controlled From the Device (Continued):

3) Maximum limit of the ambient temperature (F mode)

Thermostat limits floor heating so as not to exceed the set ambient temperature

4) Maximum floor temperature limit (A mode)

The thermostat limits floor heating so to the set temperature to ensure it does not exceed the selected limit. This parameter is ideal for protecting engineered wood floors. (Verify with your flooring manufacturer to determine heat limit.)

This parameter is only usable when a floor sensor is connected to the thermostat.

5) Minimum floor temperature limit (A mode)

The thermostat limits the minimum temperature of the floor in order to keep it at a comfortable temperature.

This parameter can only be used when a floor sensor is connected to the thermostat.

6) et 7) Main and auxiliary output cycle length

The thermostat has a man and an auxiliary output. Select the appropriate cycle length based on your heating system. The selection of an inappropriate cycle length may damage your unit.

<table>
<thead>
<tr>
<th>Minimum cycle length</th>
<th>G1S</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Convector or baseboard heater activated by electronic relay (ESR)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Convector or baseboard heater activated by mechanical relay</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Hydronic heating pump system</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>armoire</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

9) Circulator pump's anti-seizure

When the thermostat is not heating for an extended period, this parameter will activate the main output during 1 minute every 24 hours to ensure the hydronic system pump does not seize.

### Technical Specifications

- Operating voltage: 24 Vac
- Maximum load: 1 Amp
- Setpoint range: 5 °C to 36 °C (+4 °F to 97 °F)
- Display range: 0 °C to 70 °C (32 °F to 99 °F)
- Resolution: 0.1 °C or 0.1 °F
- Storage: 30 °C to 60 °C (−4 °F to 122 °F)
- Auxiliary output: 24 Vac / VDC / 0.1 A
- Protocol: Wi-Fi
- Standard: IEEE 802.11 b/g/n
- Frequency: 2.4 GHz
- Compatible with:
  - Baseboard heater activated by mechanical relay or electronic relay (ESR)
  - Fan-forced convectors activated by mechanical relay or electronic relay (ESR)
  - Electric floor heating activated by a relay
  - Hydronic floor heating
  - Hydronic heating system
  - Furnace (without fan control)

### 3-year limited warranty

SINOPÉ TECHNOLOGIES INC. warrants the components of their products against defects in material and workmanship for a 3-year period from the date of purchase, under normal use and service, for a period of up to $1,000.00 (USD) to the original owner. This warranty shall be null and void if the product has been tampered with, repaired, or modified, or if the warranty is filed after the expiration date. If the terms of this warranty are not met, the manufacturer reserves the right to reject the product or charge for any costs incurred in servicing the product.