




# **aube technologies TH114-A Non-Programmable Thermostat Owner's Manual**

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## **aube technologies TH114-A Non-Programmable Thermostat**



### **Before you start**

#### **CAUTION**

For a new installation, choose a location about 1.5 m (5 ft.) above the floor. The thermostat must be installed on an inside wall facing the heating system except for floor heating systems. Avoid locations where there are air drafts (top of staircase, air outlet), dead air spots (behind a door), direct sunlight or concealed chimney or stove pipes except for floor heating systems. Do NOT install the thermostat in an area where it can be exposed to water or rain. Keep the thermostat's top and bottom air vents openings clean and unobstructed at all times.

### **About your thermostat**

The TH114-A/AF-024T non-programmable thermostat has three temperature control modes

#### **A mode**

Controls the ambient air temperature

#### **F mode**

Controls the floor temperature

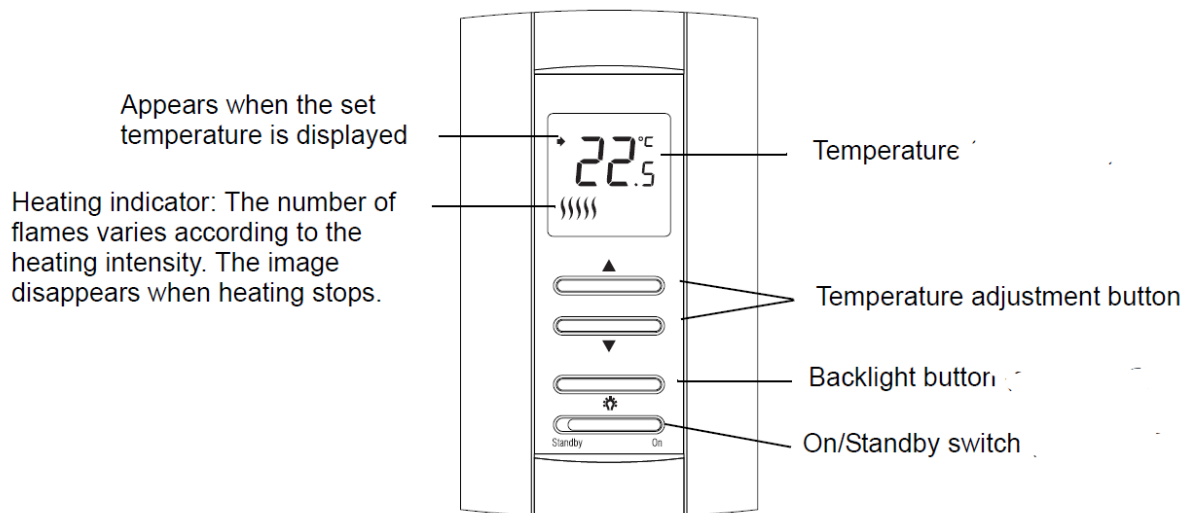
### AF mode

Controls the ambient air temperature maintains the floor temperature within desired limits.

## Supplied Parts

- One (1) thermostat
- Two (2) mounting screws
- Two (2) plastic anchors
  - Select models only; required for floor heating applications only.
- One (1) floor sensor
- One (1) flat tip screwdriver.

## Controls and display



## Temperature Display and Setting

The thermostat usually displays the room temperature. To view the set (desired) temperature, press either of the AV buttons once. The set temperature is displayed for 5 seconds. To set a new temperature, press one of the AV buttons repeatedly until the desired temperature is displayed. To scroll faster, press and hold the button.

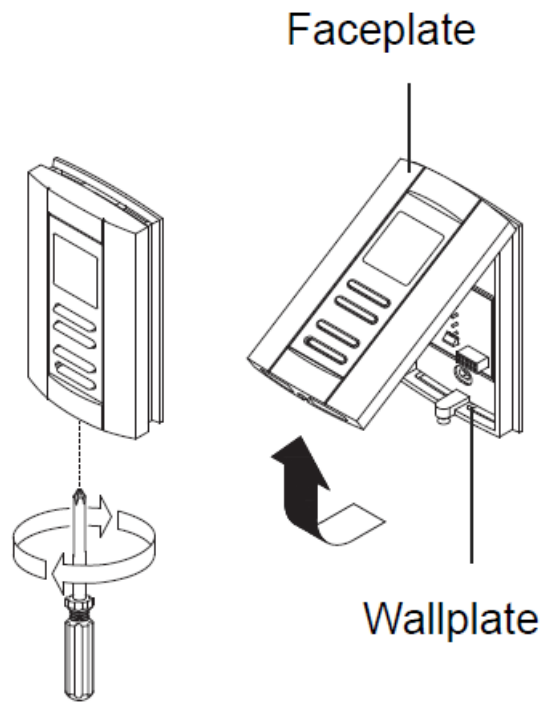
### Backlight

The display illuminates for 5 seconds when the backlight button is pressed. When either of the AV buttons is pressed, the display illuminates for 10 seconds. The set temperature appears for the first 5 seconds, then the room temperature is displayed.

### On/Standby Switch

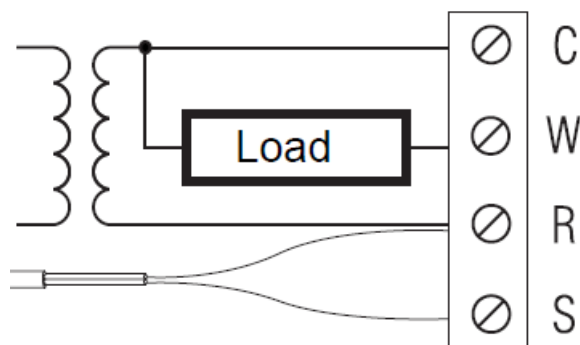
You can set the thermostat to Standby to cut power to the heating system when it is not in use e.g. in summer. The thermostat screen becomes blank but all settings are saved.

## Installing the thermostat



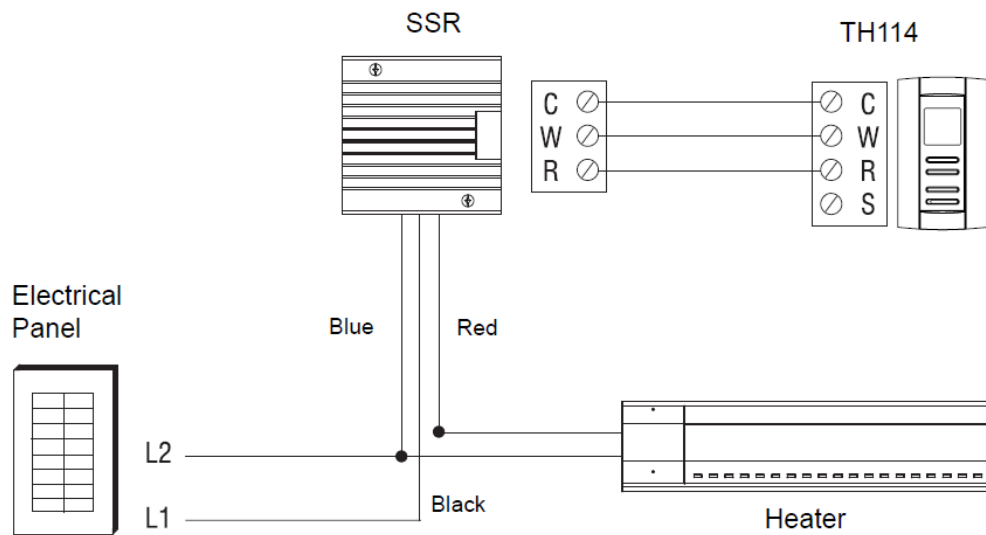
- Turn the heating system off at the main electrical panel .
- Loosen the bottom screw and remove the thermostat faceplate from its wall plate.
- The screw cannot be completely removed.
- Wire the thermostat.
- If the thermostat will be used in F or AF mode connect the floor sensor.
- Install the wall plate on the wall using the provided screws and wall anchors.
- Set the configuration switches.
- Install the faceplate back on the wall plate and tighten the screw.
- If there is a sticker on the screen, peel it off.
- Retune power to the heating system at the main electrical panel.

### Connecting the floor temperature sensor

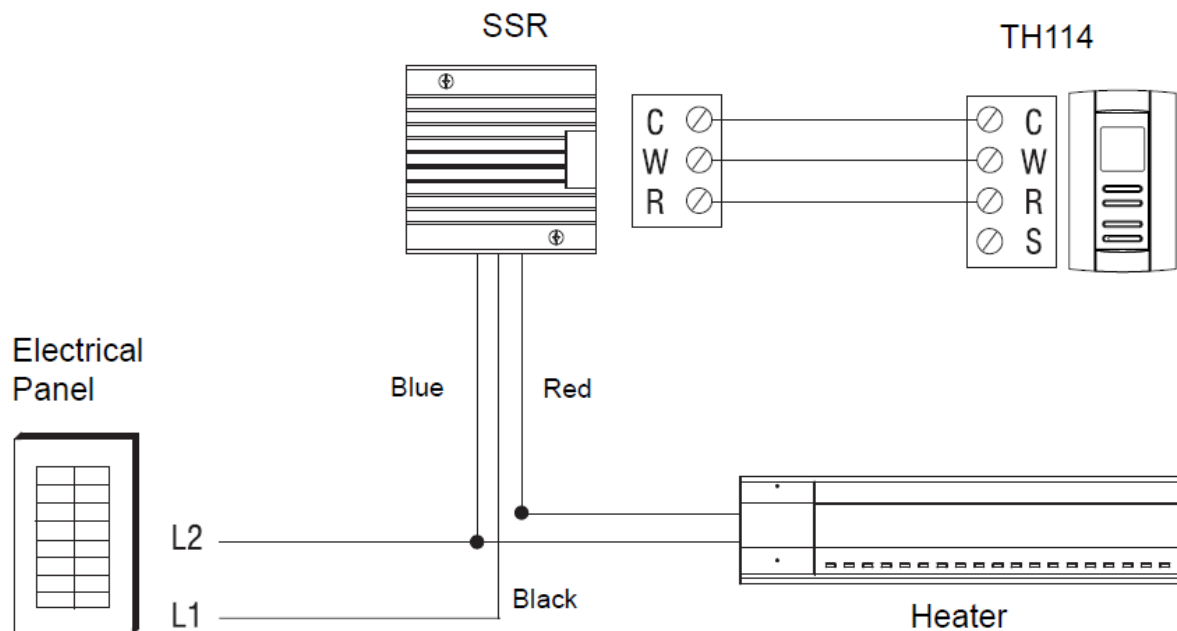


### Wiring diagram

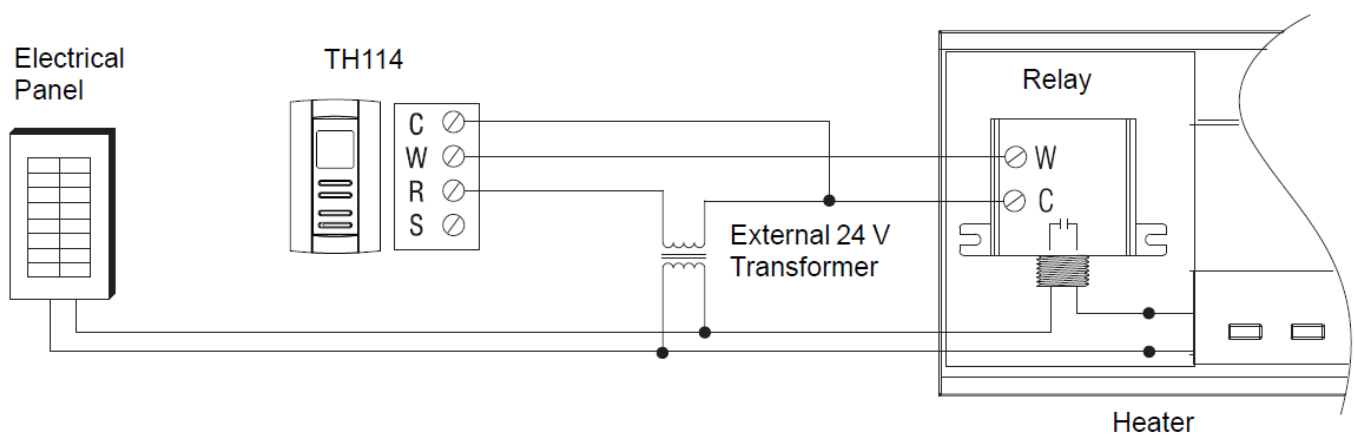
Single SSR with Built in Transformer



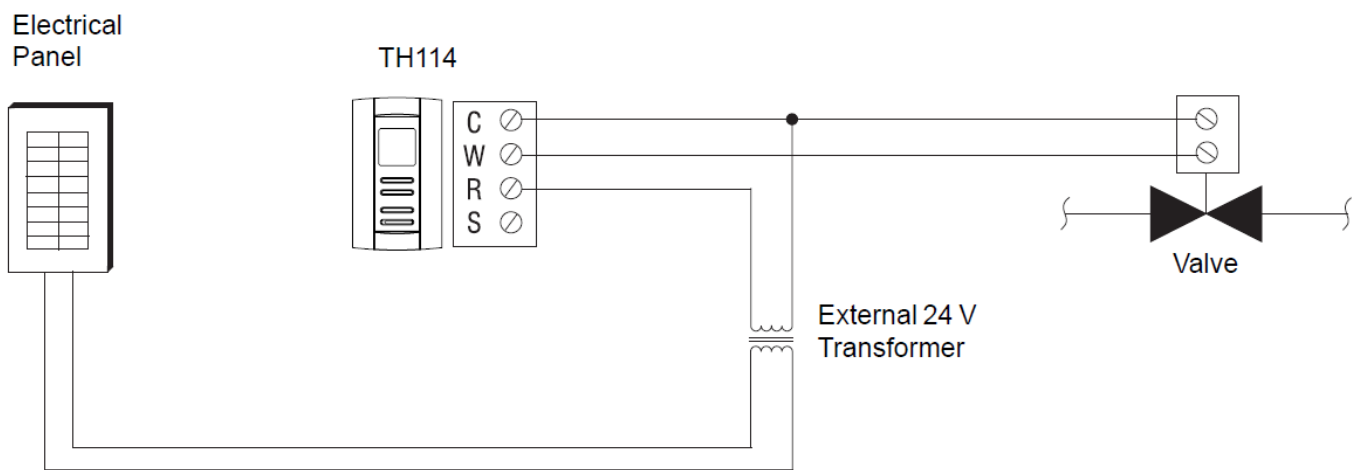
### Multiple SSRs with External Transformer



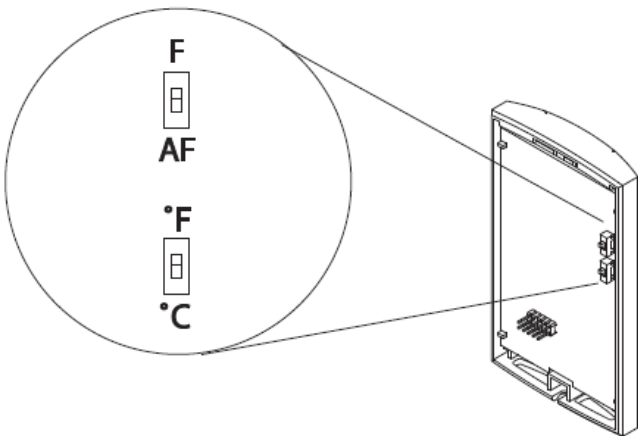
### Electromechanical Relay with External Transformer



# Hot Water Heater Valve



## Setting the configuration switches



Configuration switches are on the back of the faceplate.

#	Configurations	Up	Down
S1	Displayed temperature unit	°F	°C
S2	Temperature control mode	F	AF

## To select the F Mode, connect the floor temperature

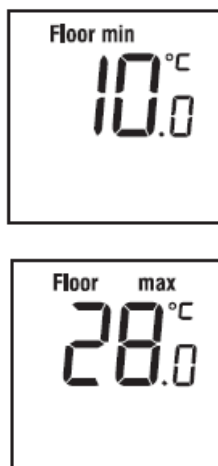
To select the AF Mode, proceed as follows: Connect the floor temperature sensor. Place the switch in the F position. If the thermostat displays Er, the sensor is improperly connected or damaged. If the thermostat displays a temperature reading, place the switch in the AF position. To select the A Mode, place the switch in the AF position but do NOT connect the floor temperature sensor.

## Floor temperature limits AF mode only

The minimum and maximum floor temperature limits are available only if the temperature control mode is AF. If the floor temperature drops below the minimum limit or rises above the maximum limit, the thermostat will turn heating On or Off respectively, regardless of the ambient temperature, to maintain the floor temperature within the set limits.

**NOTE**

The desired ambient temperature might not be attainable if the maximum floor temperature is set too low. The minimum and maximum floor temperature limits are factory-set at 10 °C (50 °F) and 28 °C (82 °F) respectively. To modify the limits, proceed as follows:

**WARNING**

To avoid damaging your floor, follow your floor supplier's recommendations regarding floor temperature limits. Switch the thermostat to Standby. While pressing either button, up and down switch the thermostat back to On to access the floor temperature limit settings. Press the Backlight button briefly to switch between minimum and maximum floor temperature settings. Press the up and down buttons to set the desired limit. Press the Backlight button for 3 seconds to save your modifications. After the data are saved, the thermostat displays the current temperature.

**NOTE**

Your modifications are automatically saved if no button is pressed for 60 seconds.

**Error Messages****L0**

The measured temperature is below the display range. Heating is activated.

**H1**

The measured temperature is above the display range. Heating is deactivated.

**Er**

Verify the thermostat and sensor connections. Heating is deactivated.

**Technical Specifications**

- Maximum load: 0.5 A / 24 VAC
- Wire gauge: 14 to 22 AWG
- Heating cycle length: 15 minutes
- Setpoint range F mode: 5 °C to 40 °C (40 °F to 104 °F)
- A/AF mode: 5 °C to 30 °C (40 °F to 86 °F) Floor limit range AF mode: 5 °C to 40 °C (40 °F – 104 °F)

- Display range F mode: 0 °C to 60 °C (32 °F to 140 °F)
- AF mode: 0 °C to 50 °C (32 °F to 122 °F) Resolution: 0.5 °C (1 °F)
- Data protection: All settings are saved during a power failure.

**Warranty**

Return it, with a bill of sale or other dated proof of purchase, to the place from which you purchased it, or Customer Care will make the determination whether the product should be returned to the following address Resideo Return Goods, 1985 Douglas Dr. N., Golden Valley, MN 55422, or whether a replacement product can be sent to you. This warranty does not cover removal or reinstallation costs. This warranty shall not apply if it is shown by Resideo that the defect was caused by damage which occurred while the product was in the possession of a consumer. Resideo's sole responsibility shall be to repair or replace the product within the terms stated above. RESIDEO SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE OF ANY KIND, INCLUDING ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING, DIRECTLY OR INDIRECTLY, FROM ANY BREACH OF ANY WARRANTY, EXPRESS OR IMPLIED, OR ANY OTHER FAILURE OF THIS PRODUCT. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation may not apply to you. THIS WARRANTY IS THE ONLY EXPRESS WARRANTY RESIDEO MAKES ON THIS PRODUCT. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IS HEREBY LIMITED TO THE THREE YEAR DURATION OF THIS WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state. If you have any questions concerning this warranty.

**Documents / Resources**

	<a href="#">aube technologies TH114-A Non-Programmable Thermostat</a> [pdf] Owner's Manual TH114-A, AF-024T, TH114-A Non-Programmable Thermostat, TH114-A, Non-Programmable T hermostat
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