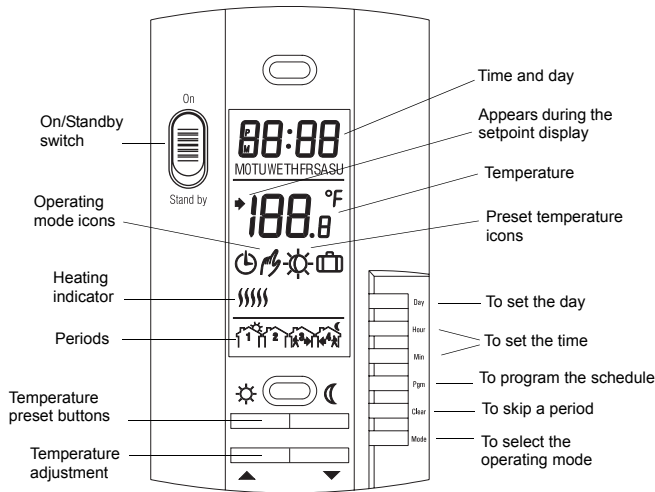


## 1 Description

Aube's TH110 programmable thermostat can be connected to an electric heating system such as an electric baseboard, a radiant ceiling, a floor heating system, an electric convector, etc. It is not compatible with a central heating system.



\* Set the switch to Standby to cut power to the heater. This will not affect the time and temperature settings.

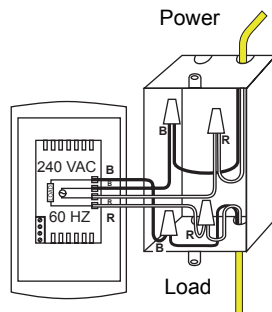
## 2 Connection

TURN OFF POWER TO THE HEATING SYSTEM AT THE MAIN POWER PANEL TO AVOID ELECTRICAL SHOCK.

- The installation must be carried out by an electrician.
- All cables and connections must conform to the local electrical code.
- Special CO/ALR solderless connectors must be used when connecting with aluminum conductors.
- Install the thermostat onto an electrical box.
- Install the thermostat about 5 feet high, on an inside wall facing the heater.
- Avoid locations where there are air drafts (such as the top of a staircase or an air outlet), dead air spots (such as behind a door), or direct sunlight.
- Do not install the thermostat on a wall that conceals chimney or stove pipes.

- 1 Connect the thermostat wires to the 240 V line and to the load using solderless connectors for copper wires.
- 2 Push the excess wire back into the electrical box to prevent interference with the thermostat.
- 3 Secure the thermostat using two 6-32 screws.
- 4 Return power to heating system.

**NOTE:** Always keep the thermostat's vents clean and unobstructed.



## 3 Configuration

The configuration switches are on the back of the thermostat. Default (factory) settings are inside the gray cells.

#	Configurations	UP	DN
SW1	Not used		
SW2	Early Start <sup>a</sup>	Disable	Enable
SW3	Time format	12-hour	24-hour
SW4	Temperature format <sup>b</sup>	°F	°C

- Early Start can be used in Automatic mode only. When this function is enabled, the thermostat calculates the optimal time to start heating in order to obtain the desired temperature by the set time. The thermostat re-assesses the start time daily based on the previous day's performance.
- If you change the temperature display format, the preset temperatures (☼, ☾ and ☰) will return to their default settings.

## 4 Power-up

Upon power-up, the thermostat is in manual mode (☼) and displays the actual temperature.

- 1 Press the **Hour** and **Min** buttons to set the thermostat's clock.
- 2 Press the **Day** button to set the day.

## 5 Temperature Setting

### Setpoint

The thermostat normally displays the actual temperature. To view the setpoint, press the ▲ or ▼ button briefly. The setpoint will appear for the next 5 seconds.

To change the setpoint, press the ▲ or ▼ button until the desired temperature is displayed. To scroll faster, hold the button.

### Using a preset temperature

The thermostat has 3 preset temperatures:

- ▶ Comfort temperature ☼
- ▶ Economy temperature ☾
- ▶ Vacation temperature ☰

Icon	Intended use	Default setting
☼	Comfort (when at home)	21°C (70°F)
☾	Economy (when asleep or away from home)	16°C (62°F)
☰	Vacation (during prolonged absence)	10°C (50°F)

- To use the Comfort or Economy temperature, press the ☼ or ☾ button respectively. The corresponding icon will be displayed.
- To use the Vacation temperature, press both ☼ and ☾ buttons simultaneously. The ☰ icon will be displayed.

### Storing a preset temperature

To store the Comfort or Economy temperature:

Set the desired temperature using the ▲ or ▼ button. Press and hold the appropriate button (☼ or ☾) for approximately 3 seconds until the corresponding icon is displayed. Press the **Mode** button.

To store the Vacation temperature:

Set the desired temperature using the ▲ or ▼ button. Press and hold both ☼ and ☾ buttons simultaneously for approximately 3 seconds until the ☰ icon is displayed. Press the **Mode** button.

## 6 Operating Modes

**Automatic** - The temperature is set according to the energy-saving schedule. To place the thermostat in this mode, press **Mode** until ☺ is displayed. The icons of the current period and preset temperature are also displayed.

**Temporary Bypass:** If you modify the setpoint (by pressing the ▲, ▼, ✨ or ⌚ button) when the thermostat is in automatic mode, the new setpoint will be used until the end of the current period. When the next period starts, the temperature set for that period becomes the new setpoint.

**Manual** - The energy-saving schedule is not used. The temperature must be set manually. To place the thermostat in this mode:

- 1 Press **Mode** until 🌬️ is displayed.
- 2 Set the temperature using the ▲, ▼, ✨ or ⌚ button.

**Vacation** - The thermostat is set to the Vacation temperature. Press both ✨ and ⌚ buttons simultaneously to place the thermostat in Vacation mode.

## 7 Energy-saving 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.

Period	Description	Associated preset temperature
☺	Wake-up	☺
⌚	Away from home	⌚
☺	Return home	☺
⌚	Sleep	⌚

The Comfort (☺) temperature is used in periods 1 and 3 and the Economy (⌚) temperature is used in periods 2 and 4. For example, when the period changes from 1 to 2, the setpoint automatically changes from Comfort setting (☺) to Economy setting (⌚).

You can have a different program for each day of the week; i.e., each period can start at different time for each day of the week. The thermostat has been programmed with the following schedule.

Period	Setting	MO	TU	WE	TH	FR	SA	SU
☺	☺	6:00 AM	6:00 AM	6:00 AM	6:00 AM	6:00 AM	6:00 AM	6:00 AM
⌚	⌚	8:00 AM	8:00 AM	8:00 AM	8:00 AM	8:00 AM	--:--	--:--
☺	☺	6:00 PM	6:00 PM	6:00 PM	6:00 PM	6:00 PM	--:--	--:--
⌚	⌚	10:00 PM	10:00 PM	10:00 PM	10:00 PM	10:00 PM	10:00 PM	10:00 PM

To modify the schedule:

- 1 Press **Pgm** to access the programming mode. Period 1 is selected.
- 2 Press **Day** to select the day to program (hold for 3 seconds to select the entire week).
- 3 Press **Hour** and **Min** to set the start time of the selected period, or press **Clear** if you want to skip the period (--:-- is displayed).
- 4 Press **Pgm** to select another period, or press **Day** to select another day. Then repeat step 3.
- 5 Press **Mode** to exit the programming mode.

**NOTE:** If no button is pressed for 60 seconds, the thermostat will automatically exit the programming mode.

## 8 Troubleshooting

Problems	Solutions
The thermostat's screen is blank.	The thermostat's switch is on Standby.
LO is displayed.	The measured temperature is below 0°C (32°F). Heating is activated.
HI is displayed.	The measured temperature is above 50°C (122°F).
The wrong time is displayed.	The thermostat was without power for more than 2 hours.
The measured temperature is wrong.	The thermostat is located in a spot exposed to an air draft.
The heater is always On.	Bad installation
The thermostat indicates that heating is On but the heater is not On.	Bad installation
The temperature does not change according to the energy-saving schedule	Check that the thermostat is in Automatic mode. Check also the energy-saving schedule and clock settings.

## 9 Technical Specifications

**Power:** 240 Vac, 50/60 Hz

**Load:** 16.7 A maximum (resistive only)

**Power:** 4000 watts (NI) @ 240 Vac

**Display range:** 0°C to 60°C (32°F to 140°F)

**Display resolution:** 0.1°C (0.1°F)

**Setpoint range:** 5°C to 30°C (40°F to 86°F)

**Setpoint interval:** 1°C (1°F)

**Storage:** -20°C to 50°C (-4°F to 120°F)

**Approvals:** CSA/UL

**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 2 hours. The thermostat will return to the mode that was active prior to the power failure.

## Warranty

Aube warrants this product, excluding battery, 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 or malfunctions, Aube shall repair or replace it (at Aube's option).

If the product is defective,

- return it, with a bill of sale or other dated proof of purchase, to the place from which you purchased it, or
- contact Aube. Aube will make the determination whether the product should be returned, 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 Aube that the defect or malfunction was caused by damage which occurred while the product was in the possession of a consumer.

Aube's sole responsibility shall be to repair or replace the product within the terms stated above. AUBE 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 provinces and 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 AUBE 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 provinces and 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 province or state to another.

## Customer Assistance

If you have any questions about the product installation or operation, or concerning the warranty, contact us at:

705 Montrichard  
Saint-Jean-sur-Richelieu, Quebec  
J2X 5K8  
Canada

Tel.: (450) 358-4600

Toll-free: 1-800-831-AUBE

Fax: (450) 358-4650

Email: aube.service@honeywell.com

For more information on our products, go to  
[www.aubetech.com](http://www.aubetech.com)



As an ENERGY STAR® partner, Aube Technologies has determined that this product meets the ENERGY STAR guidelines for energy efficiency.