MODEL TH111GFCI-NP 120 VAC

SUMMARY

OPTIONS SELECTION

At the back of the thermostat, there is one selection switches to set at your preferences.

Temperature in °C or °F.

TO SET TEMPERATURE

Press on ▲ or ▼ once to see setpoint temperature appear on display. Every subsequent press will change the setpoint temperature by one degree.

TO RECORD THE ☼ (COMFORT) SETPOINT TEMPERATURE

Select chosen setpoint temperature by using ▲ or ▼ button. Press on ☼ button (2 to 3 seconds) until icon appears on display.

TO RECORD THE ☾ (ECONOMIC) SETPOINT TEMPERATURE

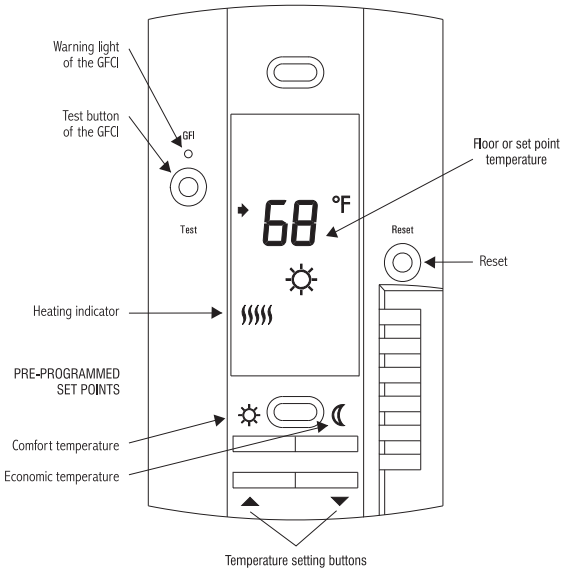
Select chosen setpoint temperature by using ▲ or ▼ button. Press on ☾ button (2 to 3 seconds) until icon appears on display .

TO RECORD THE 💼 (VACATION) SETPOINT TEMPERATURE

To program the Vacation temperature, select the desired degree using the ▲ ▼ buttons and press on the ☼ and ☾ buttons simultaneously until the 💼 icon is displayed (app. 3 seconds).

CHECKING GROUND FAULT CIRCUIT INTERRUPTER (GFCI)

Adjust the setpoint temperature until heating indicator (flames) appears on display. Press TEST button. The test is conclusive if the warning light (GFCI) on thermostat is ON and power to the load is cut-off (flames remain on display though). If these events do not occur, check the installation. Press on RESET button to reset the GFCI.



INSTALLATION

Parts included:

One (1) TH111GFCI-NP (120 VAC) thermostat
Two (2) 6-32 screws
Four (4) Solderless connectors (for copper wire)
One (1) Temperature sensor with a 15 foot extension

TURN OFF POWER TO THE HEATING SYSTEM AT THE MAIN POWER PANEL TO AVOID ELECTRICAL SHOCK. KEEP AIR VENTS OF THE THERMOSTAT CLEAN AND OBSTRUCTION FREE.

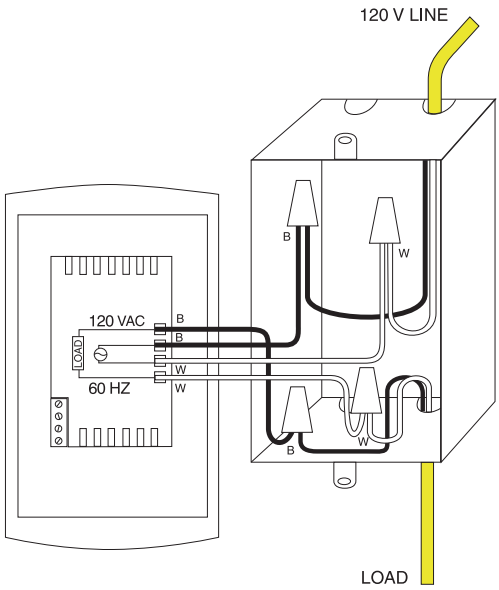
This thermostat should be installed by an electrician or experienced technician. The thermostat must be used with a circuit breaker or fuse.

This thermostat was designed to control floor electric heating systems. The resistive load must not exceed 2000 watts @ 120 VAC (16.7 A). The thermostat is equipped with a ground fault circuit interrupter (GFCI) and therefore the isolation of the line and load is required for operation. The polarity of line connection must be respected. During a ground fault, only the current in the black wire of the load will be cut-off from the 120 V line. Connect thermostat as shown on diagram.

1) CONNECTING WIRES AND MOUNTING THERMOSTAT

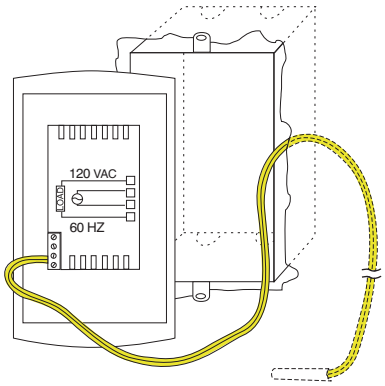
Connect the rear thermostat wires to the power supply and to the load using solderless connectors for copper wires. See schematic diagram.

Push the excess wire back into the electrical box to prevent interference withthe thermostat. Secure the thermostat using two (2) 6-32 screws 1 1/4 inches long. Once the thermostat is properly installed, return power to heating system.



2) CONNECTING TEMPERATURE SENSOR WIRE

Connect the sensor wire to the two lower screws of the terminal block at the back of the thermostat (no polarity need to be respected). The wire must pass outside the electrical box and follow the wall down to the floor. The sensing probe should be placed in a representative heat area for maximum system perfomance. The sensing probe should be centered between the wires in the mat. The probe wire cannot cross any heater wires and the temperature sensor must not be directly or adjacent to a heating wire.



CHOOSING THE TEMPERATURE SCALE IN °C (CELSIUS) OR °F (FAHRENHEIT) TO APPEAR ON DISPLAY.

Set the temperature switch at the back of the thermostat to °C or °F at your preferences.

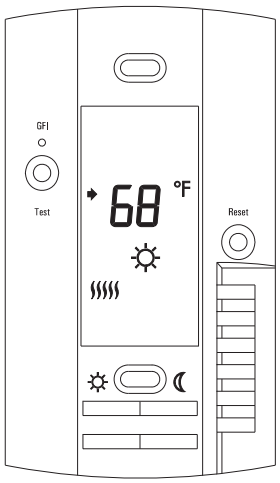
POWER UP

To power up thermostat:

When power is applied for the first time, the display must show the time 00:00, the floor temperature and the manual mode icon ( ). Other information might show up on the display if installation is defective or does not comply with the instructions. The warning light (GFI) must be off.

The message L0 or HI will appear on the display if the temperature sensor is defective or the temperature is below 0 °C (32 °F) or higher than 60 °C (140 °F). Also, the heating indicator will be present on display and the relay will be closed (current going in the load).

CHECKING GROUND FAULT CIRCUIT INTERRUPTER (GFCI)



Adjust the setpoint temperature until heating indicator ( ) appears on display. Press TEST button. The test is conclusive if the warning light (GFCI) on the thermostat is ON and power to the load is cut-off. If these events do not occur, check the installation. Press on RESET button to reset the GFCI.

If the GFCI test fails:
Check the load wires. The thermostat must be in heating mode to carry out the test (heating indicator ON).

The GFCI test should be carried out monthly. If the test fails, cut off the electric power to the heating system and call customer service or return the thermostat to your supplier for verification. If the warning light comes on during normal operation, cut off power to the heating system and have an electrician verify the installation.

OPERATION

The thermostat has 4 different buttons to control the floor temperature. The ▲ and ▼ buttons increase or decrease the setpoint temperature. The ☼ and ☾ buttons are used to store and recall two temperature settings.

• Default values

To erase the recorded setting temperatures (☼ and ☾) and replace their values by the default ones, ☼ 28 °C (82 °F) and ☾ 18 °C (64 °F) press the ▲ button while pressing and releasing the RESET button. Then release the ▲ button.

• Setting a setpoint temperature

Press once the ▲ or ▼ button to see the setpoint temperature on display. Every subsequent press will change the setpoint temperature by one degree.

• Recording setpoint temperature for ☼ (COMFORT) , ☾ (ECONOMIC) and 💼 (VACATION) settings

By recording the setpoint temperatures you will be able to go from the ☼ setting to the ☾ or 💼 setting by simply pressing the ☼ or ☾ button or (☼ and ☾) for 💼 .

• Recording a setpoint temperature for the ☼ (COMFORT) setting

Select chosen setpoint temperature by using ▲ and ▼ buttons. Keep pressing on the ☼ button (2 to 3 seconds) until icon appears on display.

• Recording a setpoint temperature for the ☾ (ECONOMIC) setting

Select chosen setpoint temperature by using ▲ and ▼ buttons. Keep pressing on the ☾ button (2 to 3 seconds) until icon appears on display.

• Recording a setpoint temperature for the 💼 (VACATION) setting

To program the Vacation temperature, select the desired degree using the ▲ ▼ buttons and press on the ☼ and ☾ buttons simultaneously until the 💼 icon is displayed (app. 3 seconds).

NOTE*: When the temperature setting used is ☼ or ☾ or 💼 , you can still use the ▲ or ▼ buttons to change the setpoint temperature without changing the recorded temperature.*

• Recalling stored setpoint temperatures

Once stored, the setpoint temperatures can be recalled simply by selecting the ☼ or ☾ button or both ☼ and ☾ for 💼 setpoint.

CHARACTERISTICS

Model:	TH111GFCI-NP (120 VAC)
Supply:	120 VAC, 50/60 Hz
Load:	16.7 A maximum (resistive only)
Power:	2000 watts @ 120 VAC
Ground fault circuit interrupter (GFCI):	Class A (5 MA TRIP LEVEL)
Approvals:	CSA/C, US
Display range:	0 to 60 °C (32 °F to 140 °F)
Setting range:	5 °C to 40 °C (40 °F to 104 °F)
☼ Default setting:	28 °C (82 °F)
☾ Default setting:	18 °C (64 °F)
Storage:	-20 °C to 50 °C (-4 °F to 120 °F)
Temperature regulation:	1 °C (2 °F)
Precision:	± 0.5 °C (1 °F) (2000 W)

WARRANTY

AUBE TECHNOLOGIES INC. ONE (1) YEAR LIMITED WARRANTY

This product is warranted against material defects and workmanship in normal use for a period of one year, from the date of the original purchase from authorized dealers. During this period, AUBE technologies inc. will repair or replace the product with a new or of equivalent quality at AUBE'S option, without charge, any product proven defective in normal use.

Warranty does not cover transportation costs. Nor does it cover a product subjected to misuse or accidental damage. This warranty does not cover the cost of installation, removal or reinstallation.

This limited warranty is in lieu of all other warranties, obligations or liabilities expressed or implied by the company. In no event shall AUBE technologies inc. be liable for consequential or incidental damages resulting from installation of this product. Some states or provinces do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above exclusions or limitations may not apply to you.This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

The defective product and the original sale receipt must be returned to the original dealer or shipped pre-paid, insured and addressed to:

•Aube technologies inc. • Customer Service • 705, Av. Montrichard • Iberville (Quebec) • J2X 5K8

If you have any questions concerning the installation or programming of this product, please call our technical assistance at **(450) 358-4600** for the Montreal area or **1-800-831-AUBE** for outside area, Monday to Friday between 8:30 AM and 5:00 PM Eastern time.