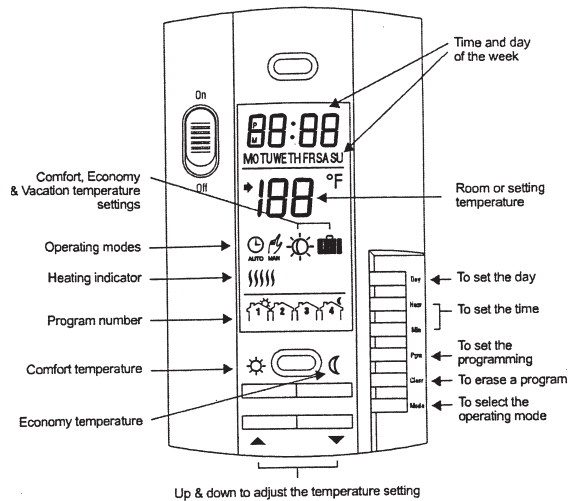


TH110A-DP-P

OWNERS GUIDE



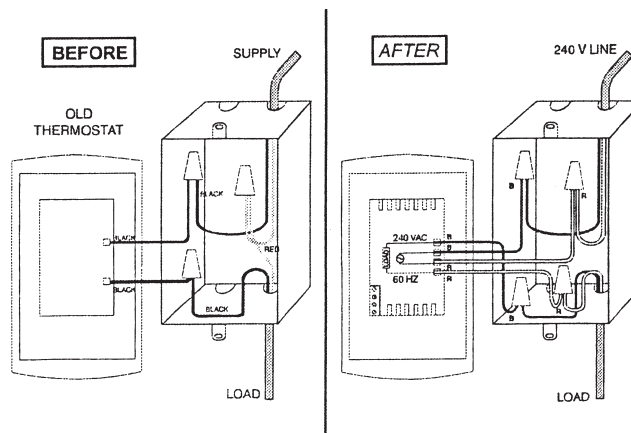
Installation

This thermostat has been designed to operate with any installation which has a RESISTIVE load not exceeding 4000W (16.67A) @ 240 VAC such as electric baseboards, radiant ceilings and floors, electric convectors, etc. It is not compatible with a low voltage controller used by a central heating system.

PARTS INCLUDED

- One (1) TH110A-DP-P (240 VAC) thermostat
- Two (2) 6-32 screws
- Four (4) solderless connectors (for copper wire)

TURN OFF POWER OF THE HEATING SYSTEM AT THE MAIN POWER PANEL TO AVOID ELECTRICAL SHOCK. Keep air vents of the thermostat clean and free from obstructions.

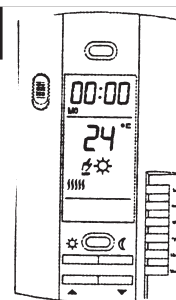


NOTE : All cables and connections must conform to the local electrical code.

WARNING : Special CO/ALR solderless connectors must be used when connecting with aluminium conductors.

Power Up

- First set the On/Off switch to On
- When the power is applied for the first time, the display will show the following
Time.00:00
Your current room temperature
Manual mode icon
- If there is other information that shows up on the display then the power may have previously been on or the installation may be defective. Contact your local distributor.
- When you set the On/Off switch to the Off mode, it will place the thermostat in a sleep mode which is ideal for summertime.



Options selection

At the back of the thermostat, there are 3 pre-set factory options as follows :

- Temperature in degrees centigrade (default) or Fahrenheit
- Time in 12 or 24 hours(default)
You can press on Day, Hour and Minute buttons to adjust the time and day
- Normal operation (default) or Early Start function
This is a built in function, which, when used in conjunction with the timer functions, enables the thermostat to calculate the optimum time to start the heating system to achieve the desired temperature setting at the programmed time. This function has the ability to start the heating system as early as 6 hours prior to the programmed time.

In order to enable this function, set the switch E.S. to “ON” at the back of the thermostat. You will have to ensure that the main power is turned off before you enable this function.

Comfort, Economy and Vacation settings

These settings represent the temperatures you wish to have

During the day or when the heating is required

Comfort 

At night or when the heating is not required

Economy 

While you are away for an extended period

Vacation 

How to program your settings


Comfort Setpoint Temperature  (when the heating is required)

The Comfort temperature can be set as follows :

First press the  button

Then select the temperature that you require (by using the arrow keys at the bottom of the thermostat) ▲▼

Finally press and hold the  button for approximately 3 secs until the icon  appears on the display.


Economy Setpoint Temperature  (at night or when the heating is not required)

The Economy Temperature can be set as follows

First press the  button

Then select the temperature that you require (by using the arrow keys at the bottom of the thermostat) ▲▼

Finally press and hold the  button for approximately 3 secs until the icon  appears on the display.

Vacation Temperature  (while you are away for an extended period)

The Vacation Temperature can be set as follows :

First press the  and  buttons

Then select the temperature that you require (by using the arrow keys at the bottom of the thermostat) ▲▼

Finally press and hold the ☀ and ☾ buttons simultaneously for approximately 3 secs until the 📅 icon is displayed.

Press the Mode button to exit this function and return to the normal operating mode.

Operating Modes

The TH110A-DP-P has two operating modes – Automatic and Manual

In order to select an operating mode, press the MODE button at the right panel of the thermostat.

AUTOMATIC ⌚

This mode uses your own chosen programming. In order to activate this mode,

- Press on the Mode button to display the automatic icon. ⌚
- When the Mode button displays the automatic icon - the ☀ or ☾ icons whichever are currently in use will indicate which temperature setting is being used.
- The icon of the program no. will also be shown.

MANUAL 🖱

This mode allows you to maintain a constant desired temperature in the room

- Press on the Mode button to display the Manual icon 🖱
- Set the desired temperature using the arrow keys or ▲▼
- You can select the pre programmed Comfort or Economy or Vacation settings. (Remember that to activate the vacation setting, you will have to press on the ☀ and ☾ buttons simultaneously)

Memory back-up

In the event of a power failure, your thermostat will maintain the programming and the time. However the time may have to be reset if the power failure is more than 2 hours.

Programming

In order to program the time and day

- Set the time using the Hour and Min buttons
- Set the day using the Day button

Schedule Programming

The TH110A-DP-P allows you to program 4 different settings for each day of the week

For eg

The time at which you wake up	P1 or Prog 1 ☀
The time you leave (eg. for work)	P2 or Prog 2 ☾
The time you arrive back home	P3 or Prog 3 ☀
The time you go to bed	P4 or Prog 4 ☾



To program your schedule

Eg P1

- Press on PGM button to access the programming mode
- Press on Day button to select the day to be programmed.
(If you desire P1 to be the same for all the days of the week, you can select all the days by pressing and holding the Day button for 3 seconds)
- Press on PGM button to select the program...in this case 1
- Press on the Hour and minute buttons to program the time

This completes your programming for P1. You can now press the Mode button to exit this function
 You can accordingly program P2, P3 and P4 as desired, using the above steps....

To erase your program

If you wish to erase the settings for the program eg P1

- Press on PGM button to select the program....P1
- Press on Day button to select the day
- Now press Clear

The time field will now display --:-- when the selected program P1 is inactive

Example 1

Comfort period from 7:00 AM to 10.30 PM

Economy period from 10:30 PM to 7:00 AM

Identical schedule for all days of the week

1. Press on PGM button to access the programming mode.
2. Press on Day button 3 seconds to select every day of the week
3. Press on Hour button to enter 7:00 AM, Prog. 1 (☀)
4. Press on PGM button again to select Prog. 2 (☾), and press on Hour and Min buttons to enter 10:30 PM.
5. Press on Mode button to exit this function.

Example 2

Comfort period : Monday to Friday from 6:15AM to 8:15 AM and from 5:00 PM to 10:00 PM.

Schedule/Day	MON	TUE	WED	THU	FRI	SAT	SUN
PROG. 1	6:15 AM	6:15 AM	6:15 AM	6:15 AM	6:15 AM	7:30 AM	7:30 AM
PROG. 2	8:15 AM	8:15 AM	8:15 AM	8:15 AM	8:15 AM	-	-
PROG. 3	5 PM	5 PM	5 PM	5 PM	5 PM	-	-
PROG. 4	10 PM	10 PM	10 PM	10 PM	10 PM	11 PM	11 PM

NOTE : It is faster to program the same schedule for every day and then modify the exception days.

1. Press on PGM button to access the programming mode.
2. Press on Day button 3 seconds to select every day of the week
3. Press on Hour and Min buttons to enter 6:15 AM, Prog. 1 (☀)
4. Press on PGM button again to select Prog. 2 (☾), and press on Hour and Min buttons to enter 8:15 AM.
5. Repeat step 4 to enter Prog. 3 (5:00 PM) and Prog. 4 (10:00 PM)

NOTE : When making modifications, make sure that you are in the right program.

To modify the Saturday and Sunday schedules:

6. Press on Day button until SA or SU is displayed.
7. Press on PGM button to select Prog. 1 ☀ and Hour and Min buttons to enter 7:30 AM
8. Press on PGM button to select Prog. 2 ☾ and then Clear button to erase it.
9. Press on PGM button to select Prog. 3 ☀ and then Clear button to erase it.
10. Press on PGM button to select Prog. 4 ☾ and then Hour and Min buttons to enter 11:00 PM
 Press on Mode button to exit this function


Temporary or permanent temperature bypass

While you are in the Automatic mode, you can temporarily modify the room temperature by :

- Pressing the arrow keys to select the desire temperature ▲▼
- Then press on the ☀ or ☾ buttons to select the Comfort or Economy settings which have been programmed.

This temperature will be maintained until the beginning of the next programmed schedule.

You can also switch to the Vacation setting for a prolonged absence by :

- Pressing on the ☀ and ☾ buttons at the same time.
- The display will show the  icon.

The derogation in this case is permanent.

You can return to the normal operating mode by pressing the Mode button.

If however you wish to return to the programmed settings, press on the Mode button twice.

Characteristics

Model	:	TH110A-DP-P (240 VAC)
Supply	:	240 VAC, 50/60 Hz
Load	:	16.67 A maximum (Resistive only)
Power	:	4000 watts (NI) @ 240 VAC
Approvals	:	CSA /UL
Display range	:	0 to 60 °C
Setting range	:	5 to 30 °C
Comfort default setting	:	20 °C
Economic default setting	:	18 °C
Vacation default setting	:	10 °C
Storage	:	-20 to 50 °C

Warranty

WARMUP HEATING SYSTEMS LIMITED TWO (2) YEAR WARRANTY

This product is warranted against defects in material and workmanship under normal conditions of use for a period of two (2) 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.

This 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. This warranty is intended to give you the protection given to you as a consumer under the Consumer Guarantees Act 1993.

Any defective product should be sent with the original invoice to the original installer, or shipped prepaid, insured and addressed to :

WARMUP HEATING SYSTEMS NZ LIMITED

Copsey Business Park
20 Copsey Place
Avondale, Auckland

If you have any questions concerning the installation or programming of the product please call for technical assistance on (09) 820 4001