

THP1 programmable thermostat



cat. No. : 15833



a THP1 to meet your needs

Though its use

Suited to the home and tertiary sectors, it enables to control all types of heating operation periods by monitoring and regulating the room temperature between 5°C and 30°C through a program pre-set by the user and stored in memory.

Through its principle of operation

Controls and regulates the temperature of a room by comparing the temperature of an environment probe to the reference temperature displayed on the front panel of your THP1.

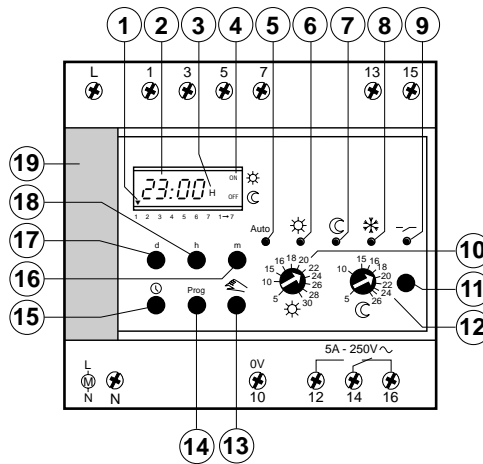
Selection of the operation mode:

- using a push button
- auto: through a programmer
 - 24 hours + 7 days,
 - 24 program steps,
 - the same program step used over several days only counts for one step.
- comfort: temperature setting button,
- reduced: reduced temperature setting button.
- no freeze: temperature set to 6.5°C.
- remote control
- closure of a comfort operation contact,
- closure of a freeze out operation contact.

discover your THP1

Legend

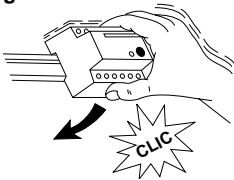
- 1 - Days display: cursor on 1 = monday, on 2 = tuesday, etc....
- 2 - Hours, minutes indicator.
- 3 - Holiday override.
- 4 - Display the switching status
ON: comfort ☀
OFF: reduced ☾
- 5 - Yellow light: auto position.
- 6 - Yellow light: comfort position.
- 7 - Yellow light: reduced position.
- 8 - Green light: freeze out position.
- 9 - Red light: output contact status.
- 10- Power setting button: "comfort".



- 11- "Local control" pushbutton.
- 12- Power setting button: "reduced".
- 13- Switching anticipation and 7-day programming key.
- 14- Switching scroll and storage button.
- 15- Time and day and return to time display function key.
- 16- Minute setting key.
- 17- Day setting key.
- 18- Hour setting key.
- 19- Manual location.

install your THP1

Its fixing



Installation guidelines

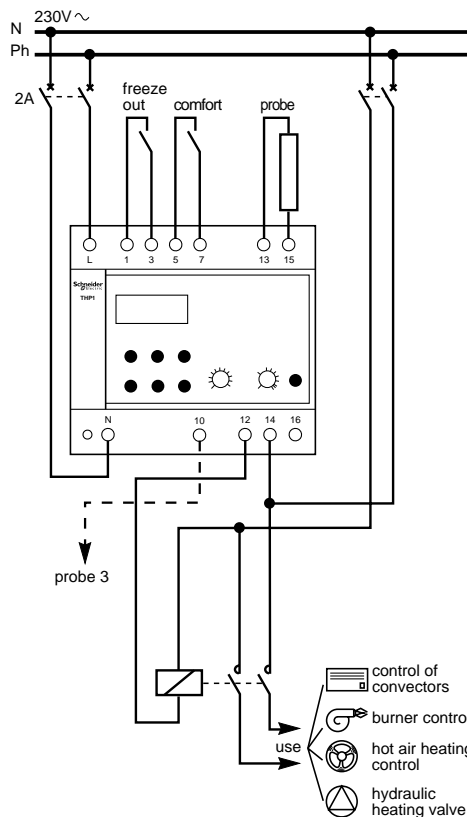
- for your THP1: we advise you to place the THP1 below your modular bar, or otherwise, at the end of a row, far away from power devices (disturbing vibrations, high temperature).
- for your environment probe: it must be fixed:
 - as much as possible at the center of the room,
 - at 1.5 m from the ground,
 - sheltered from heat sources (radiators, sun, fireplace, machines, etc...) and draughts.

Connection

Do not run probe and freeze out command loop connecting cables with 230 Volt wire. Connections with THP1 must be performed:

- using shielded copper wire of 1.5 mm² of length lower than 50 m.

Connection

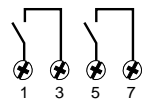


Operation test

- set clock buttons on ON ☀

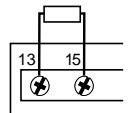


- make sure that freeze out (1-3) and comfort contacts (5-7) are in position.

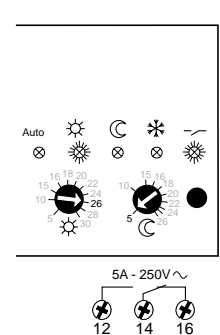


- light indicator ☀ off ☾

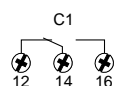
- replace probe by the resistance.



- device status:



- contact status:



set your temperature

Set your "comfort" temperature

- display temperature (5°C to 30°C), button **10**.

Set your "reduced" temperature



- display temperature (5°C to 26°C), button **12**.

Ensure your "freeze out" security


- the freeze out temperature will be kept to 6.5°C.

display your time

Prepare your programmer

- perform the resetting of the program and date/time memories. Press simultaneously for few seconds on keys **d** **m**  

Set your clock time and day

- keep depress  during: the continuous (scrolling) or by impulse (step by step):
 - d** for day display
 - h** for hour display
 - m** for minutes display

Switch to summer or winter time

- switching from summer ÷ winter time simultaneous depress:
 - d** and **h** = + 1 hour (switching to summer time)
 - d** and **m** = - 1 hour (switching to winter time)

select your controls

| | | | |
|--|--------------|---|--|
| remote control | switch (1-3) | above freezing | takes priority over local control |
| | switch (5-7) | comfort | takes priority over local control and above freezing |
| local control The local control is activated by pressing the PB marked 11 on the front face. This control takes priority over the programme that you have set. It enables you to select at any time a comfort, reduced or above freezing programme. Return to operation according to the programme takes place manually by pressing PB 11 in turn until the auto LEDs 5 come on. | PB 11 | auto | programme (ON comfort) (OFF reduced) |
| | | comfort reduced above freezing | priority over programme |







Nota :

The indicator light corresponding to the selected operating mode is on. In remote control mode the LED (freeze out or comfort) blinks.

program your heating

programming 6 transition states per day over 7 days of the week

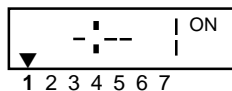
- prepare desired ON and OFF switches (complete the table)

| | Monday 1 | Tuesday 2 | Wednesday 3 | Thursday 4 | Friday 5 | Saturday 6 | Sunday 7 |
|---|-------------|--------------|----------------|---------------|-------------|---------------|-------------|
| ON  | | | | | | | |
| OFF  | | | | | | | |
| ON  | | | | | | | |
| OFF  | | | | | | | |
| ON  | | | | | | | |
| OFF  | | | | | | | |

Caution: in "program" mode the THP1 returns to the "time" display mode, if no key has been manipulated in 1 minute.

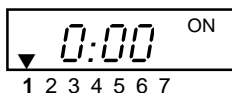
programming:

- press **Prog** is displayed on the screen



- you are ready for the first programming, select the day by successively pressing on **d** whenever the arrow is in front of the desired day, press on **Prog** to validate this day.

Ex.: monday  then **Prog**



- enter the time for the first ON switching of monday, **h** key, then **m** then validate using **Prog**.
- the clock switches to OFF switching.
- proceed in the same way for the following transition states of the same day.
- following day by depressing on **d** proceed in the same way than previously.

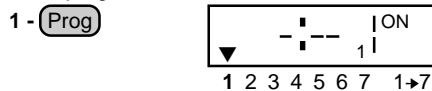
program the same switching over the week

Program weekly-long transition states in a repetitive manner:

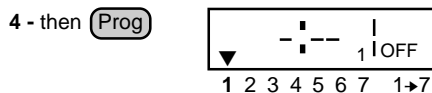
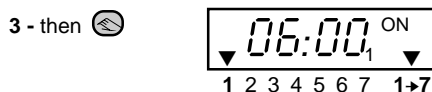
■ example:

| | | Monday 1 | Tuesday 2 | Wednesday 3 | Thursday 4 | Friday 5 | Saturday 6 | Sunday 7 |
|----|-----|-------------|--------------|----------------|---------------|-------------|---------------|-------------|
| I | ON | 6h00 | 6h00 | 6h00 | 6h00 | 6h00 | 6h00 | 6h00 |
| | OFF | 8h00 | 8h00 | 8h00 | 8h00 | 8h00 | 8h00 | 8h00 |
| II | ON | 16h00 | 16h00 | 16h00 | 16h00 | 16h00 | 16h00 | 16h00 |
| | OFF | 18h00 | 18h00 | 18h00 | 18h00 | 18h00 | 18h00 | 18h00 |

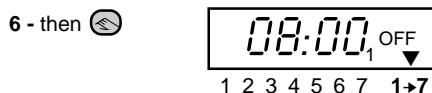
I ■ program:



2 - enter time (h) then (m)



5 - enter hour (h) then (m)



7 - (Prog) then (L)

Nota:

This method enables to increase programming possibilities.

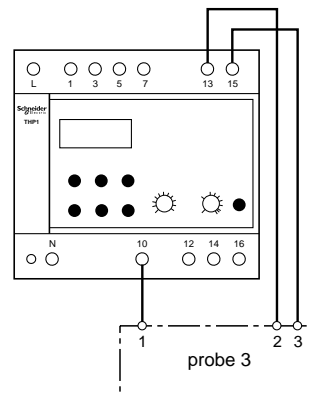
It is therefore possible to obtain up to: 42 steps x 7 days = 294 transition states per week.

II ■ program in the same way than I.

probes

3 types of environment probe can be associated to THP1:

- a non configurable probe.
- a configurable probe $\pm 3^{\circ}\text{C}$.
- heat is restarted using a configurable probe $\pm 3^{\circ}\text{C}$ with temperature display by a PB, for 1 hour duration with an increase of 3°C of the reference temperature.



modify your program

Question your program and modify it

- visualize programmed transition states by successively depressing the (Prog) key

Re-program the switching

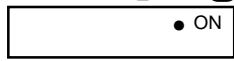
- depress on (h) then (m) then (Prog)
- cancel the selected switching simultaneous depressing on (h) then (m)

Provok an anticipation for operation

- anticipate a switching
- depress on (L), the program continuing to operate normally until next switching states.

Provok an override operation mode or a permanent stop

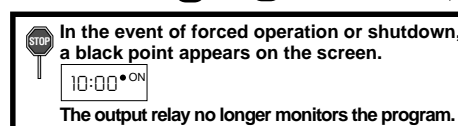
- override operation mode by simultaneously depressing on (L) and (m)



- permanent stop through a 2nd simultaneous depressing on (L) and (m)



- return to programmed override operation mode through a 3rd depressing on (L) and (m) disappearance of dots



Program an holiday override

The "holiday override" enables to set up the contact to shut down mode for a programmable period of 1 to 45 days.

- depress on (h)
- keep the (h) key depressed during the entire setting
- set your number of vacation days by successively depressing on (L) x 31 for example:
- override will start at midnight the same day
- cancel your holiday override by programming:
- ON/OFF manual transition states have a priority over holiday override

discover its features

- supply voltage: 230V $\pm 10\%$
- frequency: 50/60Hz.
- output contact range
 - 5A/250V $\sim \cos \varphi = 1$
 - 1A/250V $\sim \cos \varphi = 0.6$
- consumption: 1VA.
- time base: quartz.
- memory: 24 transition states in memory.
- mini time between two transition states: 1 minute.
- precision: 1 second / 24 hours.
- liquid crystal display.
- back up battery: 6 years. (keeps memory and time, but does not perform transition states, in case of power outage).
- type of setting = 2B type, as per standard EN 60730-1: 1991.
- use temperature: -5°C to 55°C .
- maxi capacity of connection terminals: 4 mm².
- overall dimensions: 90 mm.