

User instructions

**"EASY TOUCH" DIGITAL CHRONOTHERMOSTAT
PP1467**



GENERAL WARNINGS

The installation must be performed by qualified personnel, in compliance with the CEI standards in force for electrical systems. The product is intended for use in dry and non-dusty places; for particular environments, use specific products. Before operating on the system, remove voltage via the main switch. For any further technical information, contact the manufacturer's assistance service.

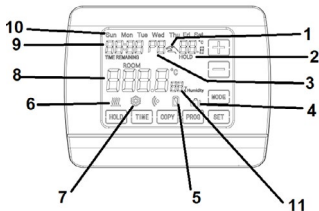
DESCRIPTION

This type of relay room chronothermostat can be easily connected to any boiler or air conditioner that has a two-wire connector, regardless of the 24V or 230V power supply.

The device can be programmed according to your requirements for the heating/cooling system to heat/cool your residence or office to the desired temperature, on the days and times you specify, to reduce energy costs while maintaining comfort.

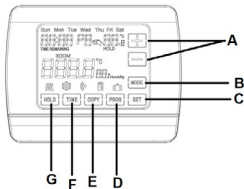
The chronothermostat is equipped with 6 separate and independent daily temperature programs (intervals) which can be set for each day of the week. The switch-on times can be set in 10 minute intervals and the temperatures can be adjusted in 0.5°C increments.

THERMOSTAT DISPLAY LEGEND



- | | | | |
|---|-------------------------------|----|--------------------------|
| 1 | MANUAL CONTROL INDICATOR | 7 | COOLING MODE ACTIVE |
| 2 | SET TEMPERATURE | 8 | AMBIENT TEMPERATURE |
| 3 | SET PROGRAM NUMBER | 9 | CLOCK |
| 4 | MANUAL TIME CONTROL INDICATOR | 10 | DAYS WEEK |
| 5 | BATTERY LEVEL | 11 | ROOM HUMIDITY PERCENTAGE |
| 6 | HEATING MODE ACTIVE | | |

THE THERMOSTAT BUTTONS



- A** + - TO INCREASE OR DECREASE
- B** MODE
- C** SET
- D** PROG
- E** COPY
- F** TIME
- G** HOLD

The switch-on sensitivity of the thermostat can be set from the thermostat menu (please refer to the PARAMETERS Section for changing of the switch-on sensitivity from the factory default of $\pm 0.2^{\circ}\text{C}$). The following are recommended:

$\pm 0.2^{\circ}\text{C}$ (factory setting, recommended for radiator heating systems)

$+0^{\circ}\text{C}$ (this setting is recommended for under-floor heating).

For example, if the factory setting is 20°C on the thermostat then the device switches the boiler on at 19.8°C or below this level and switches off at 20.2°C or above.

The thermostat is equipped with a pump protection function which, in order to prevent the pump from locking, switches the boiler on for one minute at midnight every day if the pump has not switched on in a programmed way for more than 24 hours (e.g. outside the heating season). See the activation of the pump protection function in the PARAMETERS section.

01.

PARAMETERS

Press **MODE** to scroll through the various parameters to be set and **SET** to confirm or wait 15 seconds to automatically confirm.

Set the temperature calibration: Press **MODE** until reaching the letters **CAL** on the screen, press + or - to calibrate the temperature (-3.0°C - 3°C) in 0.1°C increments (default: 0.0°C).

Sensitivity setting:

Press **MODE** until reaching the letters **DIFF**, press + or - to select the temperature (0.1°C - 0.4°C), 0.1°C increments (default: 0.2°C).

Setting the heat pump protection:

Press **MODE** until reaching the letters **HP**, press + or - to select **ON / OFF**, select **ON**: if the relay never turns on in 24 hours, it will turn on automatically at 24:00 for 1 minute.

Select OFF: to deactivate this function. (Default: OFF)

Backlight setting: Press **MODE** until reaching the letters **bL**, press + or - to select **ON / OFF**;

Select ON: pressing any button it is possible to turn on the backlight, which will turn off automatically after 15 seconds. (Default: OFF)

Factory data reset:

Press **MODE**, display **RESET** and press **HOLD** for 3 seconds to restore the factory settings.

01. PARAMETERS

HEATING/COOLING setting:

Press MODE until reaching the word HEAT, press + or - to select HEAT (HEATING) / COOL (COOLING). (Default: HEAT)

In HEATING mode, the system is activated when the set temperature is higher than the room temperature. In COOLING mode, the system is activated when the set temperature is lower than the room temperature.

Lock button:

To lock the chronothermostat, keep MODE pressed for 5 seconds, LOC is displayed for 2 seconds. To unlock press and hold MODE for 5 seconds (after the device has been locked), ULOC is displayed for 2 seconds.

Place the thermostat in a position protected from sudden changes in temperature or external heat (e.g. direct sunlight, refrigerator, fireplace, etc.). The optimal installation position is

approximately 1.5 m above floor level.

N.B. = If the radiator valves in your flat are equipped with a thermostatic head, replace the thermostatic head of the radiator valve with a manual control handle or set it to the maximum temperature in the room where the thermostat is to be positioned, otherwise the thermostatic head can interfere with the temperature control of the apartment

02. THERMOSTAT POSITION

Place the thermostat in a position protected from sudden changes in temperature or external heat (e.g. direct sunlight, refrigerator, fireplace, etc.). The optimal installation position is approximately 1.5 m above floor level.

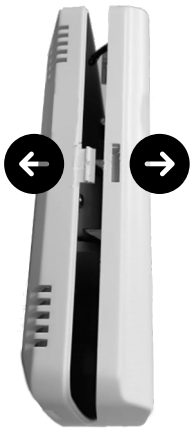
N.B. = If the radiator valves in your apartment are equipped with a thermostatic head, replace the thermostatic head of the radiator valve with a manual control handle or adjust it to the maximum temperature in the room where the thermostat is to be positioned, otherwise the thermostatic head can interfere with the temperature control of the apartment.

03. INSTALLING THE THERMOSTAT

ATTENTION!

Always follow the manufacturer's instructions when connecting the thermostat to any heating or cooling devices. The voltage appearing at the NO, NC or COM terminal depends only on the system being controlled, so the size of the cable is determined by the type of device being controlled. The length of the cable is irrelevant.

- While pressing the closure on the upper side of the thermostat housing, remove the rear thermostat cover as shown in the figure below.
- With the help of the supplied screws attach the rear panel of the device to the wall.
- Using a small screwdriver, remove the cover of the relay and connection terminals from the inside of the rear panel.
- The relay output of the thermostat has three potential-free connection points, i.e. NO; COM and NC. To control the heating, connect the two cables of the device to be connected to the NO and COM terminals, i.e. to the normally open terminals of the relay. To check the cooling system, instead connect the 2 COM and NC terminals, i.e. the normally closed terminals of the relay.
- To prevent electric shock, replace the removed inner cover for wire connection after the assembly process has been completed



04.

PLACE THE THERMOSTAT INTO OPERATION

BASIC SETTINGS

BATTERY INSERTION

While pressing the closure on the upper side of the thermostat housing, remove the rear thermostat cover as shown in the figure above. The battery compartment is located on the inside of the front panel of the housing. Insert 2 AA alkaline batteries in the battery compartment as indicated.

After inserting the batteries, the thermostat goes to the main screen and the setting process can start.

Do not use any electrically conductive materials or pencils to press the buttons.

After inserting the batteries, click the front panel of the device into the wall-mounted rear panel.

SET THE CURRENT DATE AND TIME

Press the "TIME" button to enter the screen to be configured. The day will start flashing on the display. Using the buttons (+) and (-), set the correct day (Monday MON; Tuesday TUE; Wednesday WED, etc.).

Press the "TIME" button again. At this point the day stops flashing and becomes constantly visible while the hour will start flashing on the display. Using the (-) or (+) button on the front panel of the device, set the current time. Press the "TIME" button again. At this point the numbers indicating the hour will stop flashing and will become constantly visible, while the minutes will start flashing. Using the (-) or (+) button on the front panel of the device, set the minutes of the current time.

To complete the settings, confirm them by pressing the "SET" button. At this point the adjusted data are stored and the device returns to the main screen or after approximately 10 seconds, the settings are automatically confirmed and the device returns to the main screen.

Note! The thermostat software recognises only consecutive increasing progressions to be set, based on the serial number (P1; P2; etc.) of the ignitions.

For example, P3 cannot have a lower time than the one associated with P2

With the factory settings, the thermostat works with the following programming for all days of the week:

PROGRAMMING THE THERMOSTAT

Programming of the thermostat allows setting of the switch-on times and selection of the desired temperatures for each programming slot.

The thermostat can be programmed in daily/weekly mode and can manage no.6 daily time programs.

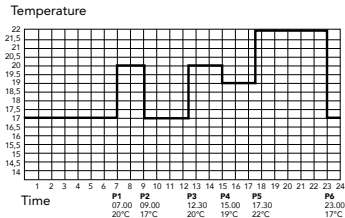
The temperature set for a specific time interval is valid until the next time interval is activated.

For example, the thermostat maintains the programmed temperature for switch-on time P1 until switch-on time P2 intervenes.

P1	7:00	20°C
P2	9:00	17°C
P3	12:30	20°C
P4	15:00	19°C
P5	17:30	22°C
P6	23:00	17°C

The following diagram shows the temperature pattern according to the factory settings for 24 hours a day.

The temperature scheme can, of course, be freely changed so that the ideal temperature is available for each day of the week.



PROGRAMMING STEPS

- Press the **"SET"** button
- Press the **"PROG"** button
- The device enters programming mode and the numbers indicating the days of the week (**SUN MON TUE WED THU FRI**) will start flashing on the display.
- Press the (-) or (+) buttons to select the day to be programmed or all days of the week. To write the same program for all days of the week, select the solution with all days of the week.

To set a different program for each day, programming should be performed separately for each day of the week, selecting the days one by one. (If there are days for which it is intended to create the same program, simply create the program only once, because it can be easily applied to every other day with the use of the **"COPY"** button).

- Press the (-) or (+) buttons to set the starting time for program P1 (the time can be set in 10 minute intervals).
- Press the "PROG" button to confirm the time; the temperature flashes on the display.
- Press the (-) or (+) buttons to set the temperature to be combined with program P1 (the temperature can be set in 0.5°C increments).
- Press the "PROG" button again to confirm and move on to programming the next program (P2) with the same methods indicated previously
- Similarly to the previous steps, using the "PROG" button and the buttons (-) and/or (+) perform the settings until the time and temperature of all 6 intervals are set
- After having programmed all the values, press the "SET" button to confirm the programmed values and to return to the main-

screen. (After approximately 10 seconds the programmed values will be automatically confirmed and the display will return to the main screen).

It is possible to press the "PROG" button repeatedly to display the programs set. The set programs can be freely modified at any time by repeating the programming steps.

COPYING A PROGRAM WITH THE HELP OF THE "COPY" BUTTON


The "COPY" function is used to copy a program of one day to another day or to different days.

- Press the "SET" button.
- Press the "COPY" button for approximately 5 seconds to activate the "COPY" function which appears on the display; the 1st day of the week (Monday) flashes and it is now possible to perform the copy operations.
- Press the (-) or (+) buttons to select the day from which to copy the program from.
- Press the "COPY" button to copy the program of the selected day. Copying stops the flashing number, indicating that the copy has been performed.
- Press the (-) or (+) buttons to select the day on which to "paste" the program of the day copied earlier.
- After selecting the day, press the "COPY" button to copy the program of the selected day.
- After finishing copying the program, press the "SET" button to return to the main screen. (After approximately 10 seconds the copied program will be automatically confirmed and the device will return to the main screen).

FACTORY SETTINGS PROGRAM / RESET CANCELLATION

Press MODE until reaching the letters Rese. Once it appears keep the HOLD button pressed for approximately 4 seconds to reset the device to the factory settings. In this way the device cancels all the stored programming and returns to the factory settings.


TEMPERATURE CHANGE FOR 1-99 HOURS

Set the required temperature by pressing, or repeatedly pressing, the (-) or (+) button on the front panel of the device, and then press the "TIME" button. The icon  appears on the display, together with the number 1h, which indicates the duration of the change (in hours). Adjust this time to the desired length (between 1 and 99) by repeatedly pressing the + key. After that, the device will maintain the modified temperature (for example 24°C) for a period of time that has been set (for example for 3 hours).

On the product screen, the current time (clock) and the time remaining at the end of the programming will appear alternately.

Press the "SET" button before the set time for temperature change has expired to stop the temperature change and return to the device operating according to the program.

TEMPERATURE CHANGE FOR 1-99 DAYS MANUAL MODE

Set the required temperature by pressing, or repeatedly pressing, the (-) or (+) button on the front panel of the device, and then press the "TIME" button twice. The icon  appears on the display, together with the number 1d, which indicates the duration of the change (in days).

Adjust this time to the desired length (between 1 and 99) by repeatedly pressing the + key. After that, the device will maintain the modified temperature (for example 24°C) for a period of time that has been set (for example for 3 days).

On the product screen, the current time (clock) and the number of days remaining at the end of the programming will appear alternately.

Press the "SET" button before the set time for temperature change has elapsed to interrupt the temperature change and to return to the device, operating according to the program.


Press the "HOLD" button.

The word HOLD will appear below the set temperature

By pressing the + and - buttons it is possible to adjust the desired temperature

In this mode, the thermostat will remain in manual function until the SET button is pressed

CHANGING THE BATTERY

The average life of the batteries is 1 year, but frequent use of the backlight can considerably reduce this time. If the symbol  indicating a low battery level appears on the display, replace the batteries.

After replacing the batteries proceed to set the day, hour and minutes again, while the set programs remain stored and it is therefore not necessary to reprogram the thermostat.

To reprogram the device, follow the procedure **FACTORY SETTINGS PROGRAM / RESET CANCELLATION**

TECHNICAL SPECIFICATIONS

VOLTAGE	24V AC/DC 230V AC ; 50Hz
FLOW ON CONTACTS	8A (2A INDUCTIVE CHARGE)
TEMPERATURE MEASUREMENT RANGE	0°C – 45°C (WITH 0.1°C INCREASE)
TEMPERATURE REGULATION RANGE	5°C – 40°C (WITH 0.5°C INCREASE)
HUMIDITY FIELD	20% - 90%
TEMPERATURE PRECISION	±1°C
MINIMUM PROGRAMMING RANGE	10 MINUTES
POWER SUPPLY	2 x 1.5V AA ALKALINE BATTERIES (TYPE LR6)
INSULATION CLASS	INSULATED IN CLASS II

Appliance compliant with the Electromagnetic Compatibility and Low Voltage Directives subject to technical modifications.



DISPOSAL USER INFORMATION

"Implementation of Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE)", pertaining to reduced use of hazardous substances in electrical and electronic equipment, as well as to waste disposal".

The symbol of the crossed-out wheelie bin on the equipment or on its packaging indicates that the product must be disposed of separately from other waste at the end of its service life.

The user must therefore take the dismissed equipment to suitable separate collection centres for electrical and electronic waste. For more details, please contact the appropriate local authority.

Suitable segregated collection of the equipment for subsequent recycling, treatment or environmentally-friendly disposal helps prevent damage to the environment and to human health, and encourages the re-use and/or recycling of the materials that make up the equipment.

Abusive disposal of the product by the user shall result in the application of administrative fines in accordance with the laws in force.



Poly Pool S.p.A. via Sottocorna, 21/B
24020 Parre (BG) - Italy
Tel. +390354104000 - www.polypool.it