# Digital chronothermostat

## User manual


CE

RDZ

*You Feel, We Care*

# Index

# Digital chronothermostat


- **Summer, winter or off operating mode**
- **White and anthracite gray front panels included in the package. For the BTicino Living Now and BTicino Axolute Air series, additional colors and adapters are available as accessory.**
- **230V power supply**
- **7 programs available for heating operation**
  **7 programs available for cooling operation**


- **Flush-mounting in three modules box (503 type)**
- **Weekly programming with 3 settable temperature levels**

Mains powered electronic chronothermostat with flush-mounting in 3 modules box (503 type) suitable for the temperature controle in household.

These instruments perform actions of 1B type and are intended for operating in environments Pollution degree 2 and Overvoltage Category III (EN 60730-1).

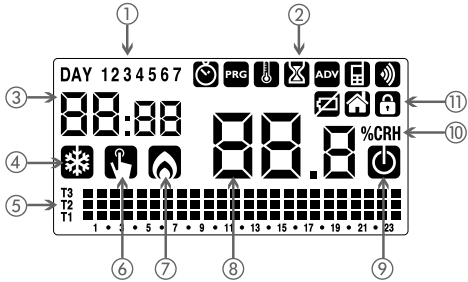
## SAFETY WARNINGS

■ **During installation and operation product it is necessary to observe the following instructions:**

1) **The device must be installed by a qualified person, in strict compliance with the connection diagrams.**
2) **Do not power or connect the device if any part of it is damaged**
3) **After installation, inaccessibility to the connection terminals without appropriate tools must be guaranteed.**
4) **The device must be installed and activated in compliance with current electric system standards**
5) **Before accessing the connection terminals, verify that the leads are not live.**
6) **In the electrical system of the building where the device must be installed, a protection device from the overcurrents must be present**

| Code | Description |
|---|---|
| **7015065** | Weekly chronothermostat 230V |

## DISPLAY AND KEYBOARD




① Day of the week (DAY 1 = Monday)
② Menù di programmazione:
- date/time and summer time setting
- programs modification (for automatic operation)
- temperatures setting T1, T2, T3, Tm
- timings menu
- advanced programming menu
- *not used*
- *not used*

③ Time and minutes
④ Load activation in summer/cooling mode
⑤ Program on graphic for the current day (in automatic operation)
⑥ Manual operation activation
⑦ Load activation in winter /heating mode
⑧ Measured environment temperature
⑨ Off operation
⑩ Temperature measurement unit "°C"
⑪ Icon group:
- *not used*
- *not used*
- Keypad lock

### ■ *Cleaning the display*

To clean the display use a soft, lint-free cloth, without using excess force.

## ■ *Keyboard*

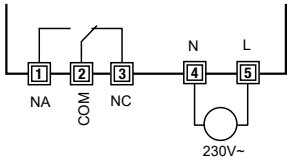
The keys carry out different functions on the basis of the instrument status and they will be described step by step in this user manual.

There are two types of pressure:

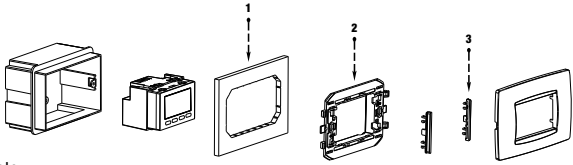
- brief pressure
- long pressure, with duration higher than 3 seconds

During the pressure of a key, the display is blue.

## CONNECTION DIAGRAMS




## MOUNTING



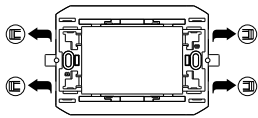

Note:

1. For installation with the BTicino Livinglight AIR series if the box extension is not present (adapter which increases the depth of the recessed box) we recommend using the Livinglight AIR installation frame.
2. Choose the support that makes the device compatible with the domestic range on the compatibility table (see chapter SUPPORTS INSTALLATION)
3. Insert, if necessary, plastic elements (see chapter SUPPORTS INSTALLATION)

## SUPPORTS INSTALLATION

| SUPPORT | SERIES |
|---|---|
| **A** | ABB: Mylos<br>AVE: S44<br>BTICINO: Living, Light, Light Tech, Livinglight, Axolute<br>VIMAR: Eikon, Eikon Evo, Plana |
| **B** | ABB: Chiara<br>BTICINO: Matix *<br>GEWISS: Chorus *<br>VIMAR: Arkè, Idea |
| **AIR** | BTICINO: Livinglight AIR ** |
| **BLN** | BTICINO: Living NOW ** |

Note:
* remove the teeth from the frame for proper compatibility (see figure to the side).



** support not included in the package, purchasable separately.

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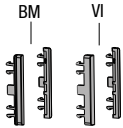
**PLASTIC ELEMENTS**




- For correct compatibility with the BTicino Matix series, use the BM plastic elements in combination with the frame B.
- For correct compatibility with the Vimar Idea series, use the VI plastic elements in combination with frame B

# INSTALLAZIONE

- The chronothermostat is designed for built-in installation in a 3-module box (type 503).

- Install the device in a 3-module flush-mounting box (type 503) at a height of about 1.5 m above the floor in an area which respects as much as possible the average temperature conditions of the whole room. Avoid installation near doors or windows, in niches, behind doors and curtains or in positions with excess or total lack of ventilation, in order to prevent the temperature reading measured by the probe from being somewhat offset.

- Install front panel of the color chosen according to your preferences by hooking it to the cogs of the device
  For installation with BTicino Livinglight AIR series if the box is not present extension (adapter that increases the depth of the flush-mounting box) yes recommends using the Livinglight AIR installation frame."

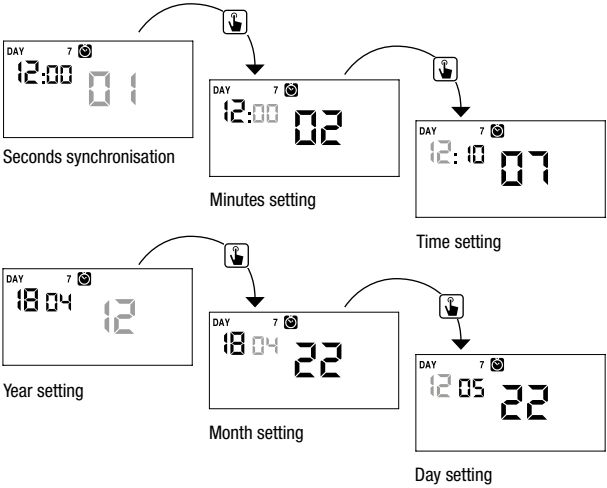
- Make the connections by respecting the diagrams described in this manual.

- Fix the device inside the 3 modules box in compliance with the assembly diagrams described in this manual. The installation accessories included in the package or can be purchased separately (see chapter SUPPORTS INSTALLATION) allow for adaptability with the main domestic range.

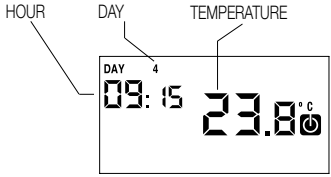
- **Clock setting**

Once the device is powered, set the clock (time and date insertion).
The parameters to enter are the following:
seconds (only synchronisation at value 00), minutes, hours, year, month, day.

Use the keys ▲ and ▼ to increase and decrease the values and the key 👆 to confirm and to move to the next parameter.
Once all values are set, press for a long time (3 seconds) the key SET to exit the menu of the clock synchronisation.

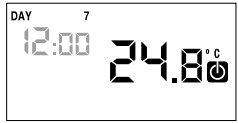


At this point the chronothermostat will begin to operate with the default parameters set (see page 30), displaying the day of the week, the time, the room temperature and the ⏻ symbol.




**Attention:**
**to operate correctly the chronothermostat requires the time and date insertion.**

**If once powered, no value is set within about 30 seconds, the chronothermostat begins to operate in off mode, displayed with the symbol ⏻.**
**The missing time is indicated from the flashing of the time.**




**The chronothermostat remains in off operation condition until when the hour is not inserted, ensuring in this way the maintainance of the antifreeze temperature (6°C).**

**In this condition, pressing any key reactivates the menu of date/time insertion for another 30 seconds about.**

# TECHNICAL CHARACTERISTICS

- Power supply:
  - 230 Vac (-15% ÷ +10%) 50/60 Hz
  - maximum consumption: 6 VA / 230 Vac
  - charge reserve (for blackout): 2 days about
- Flush-mounting in 3 modules box
- Terminal block:
  - 3 terminals for 1.5 mm² cables for bistable output relay 5 A / 250 Vac
  - 2 terminals for 1.5 mm² cables for power supply
- Temperature regulation:
  - On/Off with settable differential between 0.1°C and 1°C
  - Proportional with settable band and period
- Summer/winter operating mode
- Weekly programming (7 programs available for each operating mode)
- Daily resolution: 1 hour (possibility to set delays activation of 15, 30, 45 minutes independent for each hour)
- 5 settable temperatures:
  - T1, T2, T3 in automatic operation
  - Tm in manual operation
  - Toff in off mode (antifreeze)
- Measured temperature display: 0 ÷ 50 °C
- Measurement precision: ±0.5 °C
- Measured temperature resolution: 0.1°C
- Range impostazione setpoint: 2 ÷ 50 °C
- Watch accuracy: ±1 second/day
- Key lock by password
- Automatic summer/winter time change (you can deactivate it)
- Operating temperature: 0 ÷ 50 °C
- Storage temperature: -20 ÷ 65 °C
- Operating humidity: 20÷90% non condensing
- Protection degree: IP40
- Insulation: reinforced among accessible parts (frontal) and all other terminals

# PROGRAMMING MENU

With this menu it's possible to modify the following operating parameters:
- Date and time
- Automatic operation programs
- Automatic operation temperatures
- Timings
- Advanced functions.


## Time and date modification

To modify the set time and date:

1. From normal operating display, press for a long time the key SET until the symbol starts flashing on field **(2)**

2. Press the key to access parameters modification. The seconds field starts flashing. Parameters sequence to set is:

   seconds* -> minutes -> hours -> year -> month -> day

3. Use the keys ▲ and ▼ to modify the values and the key to confirm and move to the next parameter.
   (*) for seconds it's possible only the synchronisation at value 00re 00

4. Once all parameters are set, to exit and go back to the programming menu, press for a short time the key SET.
   To exit and go back to the normal operation (automatic, manual) press for a long time the key SET or wait for the time-out expiration (30 seconds about).

Inside this menu it's also possible to modify the parameters for winter/ summer time change. The procedure is described in a detailed way in the chapter "Summer time change" on page 23.

## Programs modification PRG

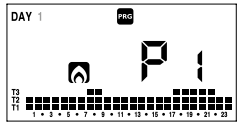
With this menu it's possible to modify the programs of the automatic operation.
The device is configured to perform the program P1 from Monday to Friday and P2 on Saturday and on Sunday (the programs profiles are described at the end of this manual on page 30-31).
È possibile cambiare questa programmazione qualora non soddisfi le esigenze.

To modify the programming:

1. From the normal operation display, press for a long time the key SET until the symbol starts flashing on field **(2)**

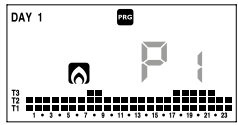
2. Press briefly the key ▲ until the symbol PRG flashes and press the key ☝ to access the parameters modification.

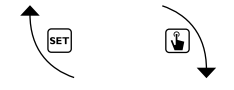
3. The programs page is displayed:
   the first day of the week (DAY 1) flashing,
   the current program (for example P1) of the current operation mode ( or ) and the profile that corresponds to the program.



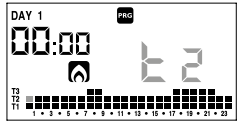

   3.1. If the set program is good, move to the next day with the keys ▲ and ▼.


   3.2. If the set program is not good, press the key ☝.
   The set program flashes: choose one program different among the 7 available by pressing the keys ▲ and ▼.

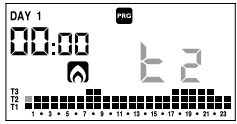


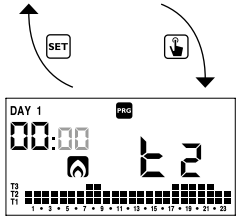

   3.2.1. If no program exactly satisfies the user's needs, choose the program which best meets them and press the key ☝ to access the odification of the program profile.
   On field **(3)** 00:00 appears while on field **(8)** flashes the temperature level (T1, T2 or T3) set for that specific time (00:00).



Use the keys ▲ and ▼ to change the temperature level and the key ☝ to move to the next hour. Set in this way the desired level temperature for each hour of the day.




3.2.1.1. For each hour it's also possible to delay the start of the regulation of 15', 30' or 45'. After setting the temperature as described above, press for a long time the key ☝ to set a delay.
The minutes field flashes (field **3**): set with the keys ▲ and ▼ the delay and press the key ☝ to move to the next hour.




4. When the program satisfies the user's needs, go back to the days page pressing twice the key SET and repeat for the other days of the week the operations just described.
When all modifications have been performed, exit the programming menu by pressing for a long time the key SET.

## Temperatures T1, T2, T3 modification

To modify the 3 temperatures of automatic operation:

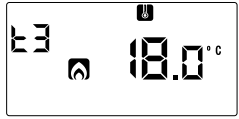
1. From the normal operation display, press for a long time the key SET until the symbol starts flashing on field **(2)**

2. Press briefly the key ▲ until the symbol flashes. Press the key ☝ to access the parameters modification.

3. The value of the flashing T1 temperature is displayed. Modify the value with the keys ▲ and ▼ and press the key to move to the modification of T2.


4. The value of the flashing T2 temperature is displayed. Modify the value with the keys ▲ and ▼ and press the key to move to the modification of T3.


5. The value of the flashing T3 temperature is displayed. Modify the value with the keys ▲ and ▼ and press the key to go back to the page of T1 temperature.




6. Once all parameters are set, to exit and to o back to the programming menu, press for a short time the key SET.
   To exit and to go back to the normal operation press for a long time the key SET or wait for the time-out expiration (30 seconds about).

**Attention: the set values of temperature must respect the condition: T1≤T2≤T3.**
**In cooling mode T1 is not settable and equals off system.**

Default values:

| *Winter operation* | |
|---|---|
| Temperature | °C |
| T1 | 5.0 |
| T2 | 15.0 |
| T3 | 18.0 |
| Tm* | 20.0 |

| *Summer operation* | |
|---|---|
| Temperature | °C |
| T1 | OFF |
| T2 | 23.0 |
| T3 | 25.0 |
| Tm* | 24.0 |

* Manual temperature (see Manual operation page 20)

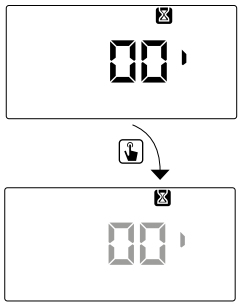
## Timing setting

This menu allows the setting of a timing on the current operating mode, expressed in hours or days.

> For further information about timings, see the chapter “Timings: what they are” on page 27.

To set a timing:

1. From the normal operation display, press for a long time the key [SET] until the symbol starts flashing on field **(2)**
2. Press briefly the key [▲] until the symbol flashes and press the key [☝] to access the parameters modification.
3. The value of the timing currently set flashes (00 = no timing). Enter the time delay value (from 15 minutes to 99 days) with the [▲] and [▼] keys and press the [☝] key to confirm.
4. Once parameters are set , to exit and go back to the programming menu, press for a short time the key [SET].
   To exit and go back to the normal operation (automatic, manual) press for a long time the key [SET] or wait for the time-out expiration (30 seconds about).




If a timing is active, the display shows the symbol .
To interrupt a timing, access again the menu and set the value 00.

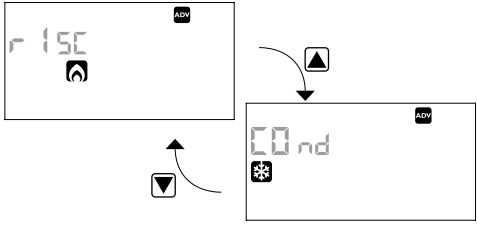
## Advanced functions menu ADV

With the ADV menu it's possible to modify the following operation parameters:
- operating mode (heating or cooling)
- regulation type (ON-OFF or proportional)
- parameters relative to regulation type
- antifreeze temperature
- adjustment of the measured temperature
- minimum/maximum settable temperature
- password for keylock
- system operation hours


To access the menu ADV:
1. From the normal operation display, press for a long time the key SET until the symbol starts flashing on field **(2)**
2. Press briefly the key ▲ until the symbol ADV starts flashing and press the key to access the parameters modification
3. At this point the first parameter of the menu starts flashing: press the keys ▲ and ▼ to modify the parameter and the key to confirm and to move to the next parameter. To exit the parameters modification press the key SET.

### Operating mode

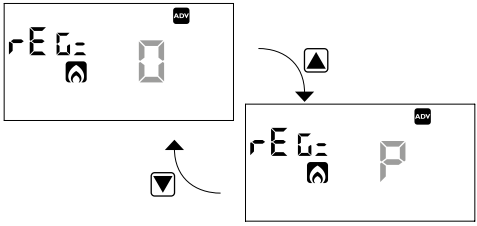
This parameter allows to specify the operating mode of the chronothermostat, between winter/heating ( ) and summer/cooling ( ).




For further information about the operating mode see the chapter "Regulation type" on page 25.

**Regulation type** (for heating mode only)

For heating mode it's possible to choose between on/off regulation (*rEG 0*) or proportional (*rEG P*).




For further information about regulation type see the chapter "Regulation type" on page 25.

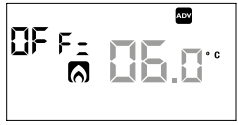
**Regulation parameters**

In case of **on/off** regulation the only parameter to set is the differential (*d iF*), which can have values between 0.1°C and 1°C.
In case of **proportional** regulation the parameters to set are the regulation band (*bnd*) and the regulation period (*PEr*).

For further information about how to choose these values see the chapter "Regulation type" on page 25.
But remember that the preset settings are suitable for the most part of the situations: change these settings only if it's really necessary.

**Antifreeze temperature** (for heating mode only)

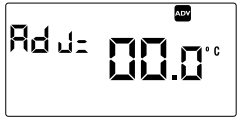
For the heating mode it's possible to set a safety temperature (antifreeze temperature – *OFF*) to maintain also if the chronothermostat is switched off.
It's possible to choose a value between 1°C and 50°C. It's also possible to deactivate the antifreeze function by pressing the key ▼ until the display shows **"---"**. In this case, if the chronothermostat is switched off, no safety temperature is maintained.




**Adjustment of the measured temperature**

In particular installation conditions, it can happen that the temperature measured by the device deviates from the average temperature in the room.
In this case, enter a temperature adjustment value with keys ▲ and ▼ and press key ☝ to confirm.

Allowed values: -5°C ÷ 5°C .
Factory value: 0 °C.



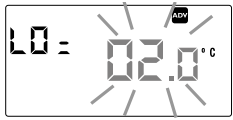

Note: the temperature value shown on the display during normal operation includes any adjustment made.

**Minimum/Maximum settable temperature**

Under particular installation conditions, for example in public buildings, hotels, etc., it may be useful to limit the range of values that the temperatures T1 / T2 / T3 and Tm can assume, in order to prevent incorrect settings by the user.

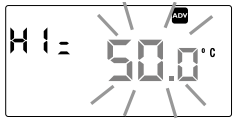
- *LO* is the lower limit

  Allowed values: 2°C ÷ *HI*
  Factory value: 2°C




- *HI* is the upper limit

  Allowed values: *LO* ÷ 50°C
  Factory value: 50°C



### Password for keylock


It's possible to set a keylock if the chronothermostat is installed in public places or if you want to prevent anyone from modifying the operation parameters.

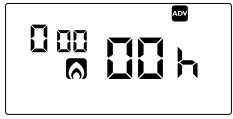
To set a password, enter on field *PAS* a value between 001 and 999. To deactivate the password press the key ▼ until **"- - -"** appears.

When the keyboard is locked, the chronothermostat performs all its functions using the set regulation parameters. If the keypad lock is active and any key is pressed, appears on the display for a while according to the inscription *bLOc*.
To unlock the device, hold down any key until the flashing dashes appear: enter the password to unlock the keyboard, which will remain unlocked for 30 seconds from the last press.

NOTE: if you have forgotten your password and want to unlock the device, you must power the thermostat off and on again and wait for the display to stop flashing. The keyboard will remain unlocked for 30 seconds to access the password menu and consult/deactivate the password.

### System operation hours

This page shows the total number of hours of operation of the system (relay ON) for the current mode (identified by the icons ❄ or 🔥).
The hour counter has 5 digits and can be reset by holding down the ☝ key for a long time until *00000* appears.




NOTE: The maximum storable value is 65535 hours (approximately 7 years).
This data is stored in non-volatile memory (it is not reset when the device is reset)

## MANUAL OPERATION

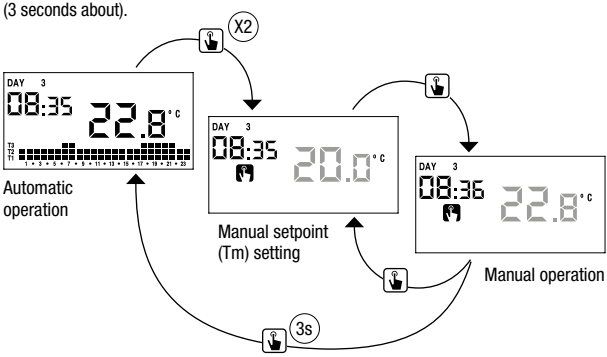
During manual operation the device performs as a normal thermostat, adjusting on the basis of the Tm temperature (manual setpoint), independently from the day and the time where it is.
The manual operation is signalled with the switch on of the symbol in the field **(6)**.

To move from automatic operation to manual operation:

1. Press the key twice. In the field **(8)** the setpoint (Tm) currently set flashes
2. set the desired setpoint with the keys and and confirm with the key
3. at this point on field **(8)** the value of the environment temperature reappears and the instrument operates in manual.

If you want to change the setpoint (Tm) press the key and repeat the points 2 and 3.

To go back to the automatic operation press for a long time the key
(3 seconds about).



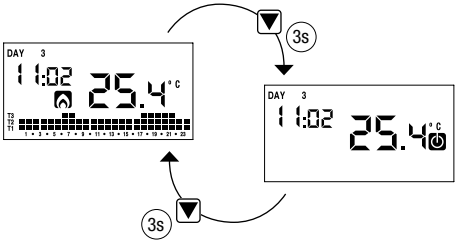
## OFF OPERATION

In off mode the device doesn't perform any regulation (*) but it continues to display the day, the time and the measured temperature.

(*) In the case of heating/winter operation the device still maintains a minimum temperature - Toff antifreeze temperature - to avoid the freezing of the system and of the environment where the device is installed.
Toff can have values between 1°C and 50°C or it can be completely excluded; in this last case the maintainance of minimum temperature is not guaranteed.
The default Toff is 6°C but it's possible to modify this value by accessing the ADV menu (see "Antifreeze temperature" on page 18).

To switch the device off press the key ▼ until the symbol ⏻ is displayed (field **(9)**).

To reactivate the regulation, returning to the operating (automatic or manual) preceding the switching off, press the key ▼ for about 3 seconds.

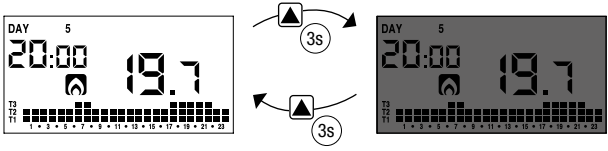


## BACKLIGHTING MANAGEMENT

The programmable thermostat has a blue backlighting which is normally on.

If the installation makes it necessary (for example in bedrooms) the backlighting can be turned off. In this condition the chronothermostat will continue to operate normally and the backlighting activates only when you enter setpoint modification, advanced programming, pin insertion menu

It's possible to turn off the backlighting by pressing the key ▲ for 3 seconds.




To reactivate the backlighting press the key ▲ for at least 3 seconds.

## MINIMUM AND MAXIMUM VALUES

It's possible to display the measured values of minimum and maximum temperature. To display these values press the key ▲ (maximum value H i) or ▼ (minimum value L O).

While viewing, these values can be reset by holding down the ▲ (maximum H i value) or ▼ (minimum L O value) button until 2 dashes appear instead of temperature.

# SUMMER TIME CHANGE

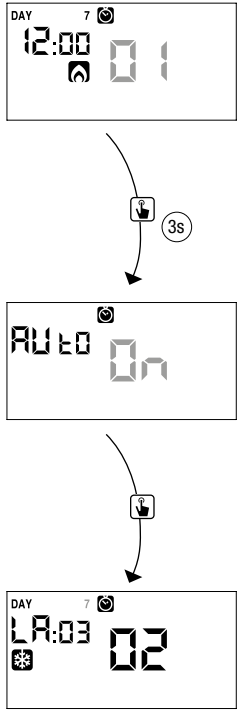
Summer time change is the convention of moving the clock forward one hour during the summer period, thus extending sunlight into the late afternoon at the expense of early morning.
In European countries, daylight saving time begins on the last Sunday in March and ends on the last Sunday in October.

The chronothermostat manages the summer/winter time change as follows:
- increasing of one hour to move from winter time to summer time
- decreasing of one hour to move from summer time to winter time

The device is default configured to move from summer time the last Sunday of march at 2 o'clock to go back to winter time the last Sunday of October at 3 o'clock in accordance with Europe convention.
However it's possible to deactivate the automatic time change or to change the date or the hour of the time change.

To change settings:

1. Access the menu of time and date change, pressing for a long time the key SET until the symbol starts flashing.
2. Press the key to access the time and date modification. At this point, during the modification of any parameter (seconds, minutes, hour, year, month or day) press for a long time the key until the display shows the writing AUtO on field **(3)**.
3. Choose with the keys ▲ and ▼ the automatic time change activation (AUtO On) or the deactivation (AUtO OFF) and confirm with the key
4. If OFF you go back to the date/time change; if On the current setting for the passage to summer time is displayed (indicated with the symbol ❄). In the example:
   a. on sunday ( 7) of the last week (LA) of March (03) at 2:00 o' clock (02)
   b. if it's necessary change the parameters with the keys ▲ and ▼ and move to the next parameter with the key . The sequence requires the insertion of:
      i. day (1…7) of the week
      ii. the week of the month (first, second, third, fourth, last – LA)
      iii. the month (1…12)
      iv. the hour
5. Press the key : the current setting for the passage to the winter time is displayed (indicated with the symbol ). In the example:
   a. the Sunday ( 7) of the last week (LA) of october ( 10) at 3 o'clock (03)
   b. if it's necessary change the parameters with the keys ▲ and ▼ and move to the next parameter with the key . The sequence requires the insertion of:
      i. day (1…7) of the week
      ii. the week of the month (first, second, third, fourth, last – LA)
      iii. the month (1…12)
      iv. the hour

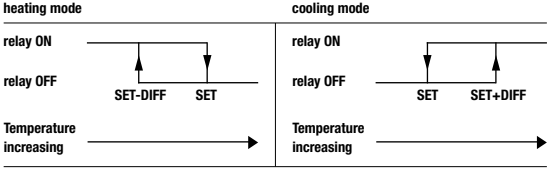


6. Once all parameters are set, to exit and go back to the programming menu, press for a short time the key SET.
   To exit and go back to the normal operation press for a long time the key SET or wait for the time-out expiration (30 seconds about).

## REGULATION TYPE

The chronothermostat has two types of regulation:

**On/off regulation**
During on/off regulation the chronothermostat measures once a minute the environment temperature and it carries out the regulation on the basis of the following logic:




where SET represents the setpoint and DIFF the differential (useful to avoid continuous switches on/switches off dangerous for the system in proximity to the reaching of the setpoint).

**Proportional regulation (heating only)**

In heating mode, the on/off regulation is available and also the proportional regulation which in some systems allows a more precise regulation to obtain a constant temperature.

This regulation requires to specify two parameters:

- the band, which represents the temperature values within whom to perform the proportional regulation. The band is centered on the setpoint and it can have values between 0.5°C and 5°C; outside these values the heating will be always on (if setpoint-band > environment temperature) or always off (if setpoint + band < measured temperature).

- the regulation period which represents the duration of the regulation cycle (activation time + deactivation time of heating) and it can have values of 10, 20 or 30 minutes.

During the operating, at the beginning of the regulation period, the device measures the environment temperature and it compares it with the programmed setpoint; on the basis of this difference the activation time is calculated (and consequently the deactivation time). The more the measured temperature is next to the setpoint value – band, the more the activation time will be predominant in comparison with the deactivation time; on the contrary, the more the measured temperature is next to the setpoint value + band, the more the deactivation time will be predominant in comparison with the activation time).
Once regulation period is passed, the device compares again the environment temperature with the setpoint and it updates the activation and deactivation times for the new period.

The result of the proportional regulation is subordinated to the correct selection of the parameters.

Select the value of the regulation type as follows:

- 10' for low thermal inertia systems (fan-coil)
- 20' for medium thermal inertia systems (aluminium radiators)
- 30' for high thermal inertia systems (cast-iron radiators)

Select the regulation band value as follows:

- broad band (5°C) for systems with high thermal gradient
- narrow band (0.5°C) for systems with low thermal gradient

**Attention: the device is default configured to operate in on/off with differential set at 0.3°C. This configuration is suitable for the most part of the situations and for this reason it's advisable to modify it only in particular situations.**

To modify the regulation type, the differential value (on/off regulation), band and period (proportional regulation) see chapter "Regulation parameters" on page 17.

**Emergency regulation (winter mode only)**

The device performs a regulation of emergency if an error occurs during the reading of the probe or in case of time loss.

In case of **probe error**, if the antifreeze function is not excluded, the device activates the load for 10 minutes every 4 hours. The display shows the writing Err on field **(8)**.

In case of **time loss** (because of depleted batteries or blackout of a duration higher than the charge reserve) the instrument restarts from the off mode, adjusting on the basis of the antifreeze temperature, if it hasn't been deactivated before. Reset date/time to go back to the normal operation (programs modifications and settings remain memorized).

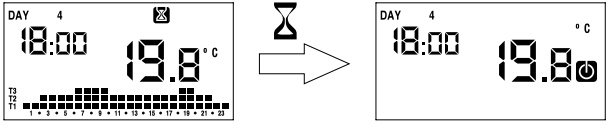
## TIMINGS: WHAT THEY ARE

Timings allow to maintain the current operation (automatic, manual, off) for a certain period (hours or days) and once passed the chronothermostat changes the operating mode, as described below.

The timed operations are the following:

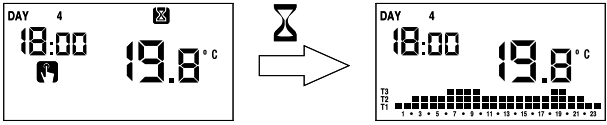
**Timed automatic**

If you set a timing in automatic status, this off status will be maintained until the end of the timing, will then switched to off mode.



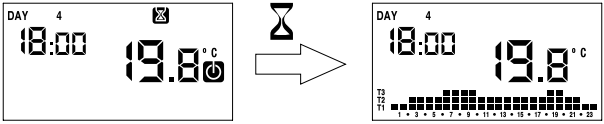
### Timed manual

If you set a timing in manual status, this off status will be maintained until the end of the timing, operation will then switched to automatic mode.




### Timed off

If you set a timing in off status, this off status will be maintained until the end of the timing, will then switched to the operation that preceded the deactivation (automatic or manual).




If you set a timing, the display shows the symbol .

Attention: the timings can end before their programmed expiration if one of these actions occur:

- time/date modification (modification of the summer time change included)
- manual modification of the operating mode
- change of the operating logic from winter to summer (or viceversa)

To set a timing, see chapter “Timing setting” on page 15.

## DEVICE RESET

If you want to erase all performed settings and to recharge the default values, proceed as follows:

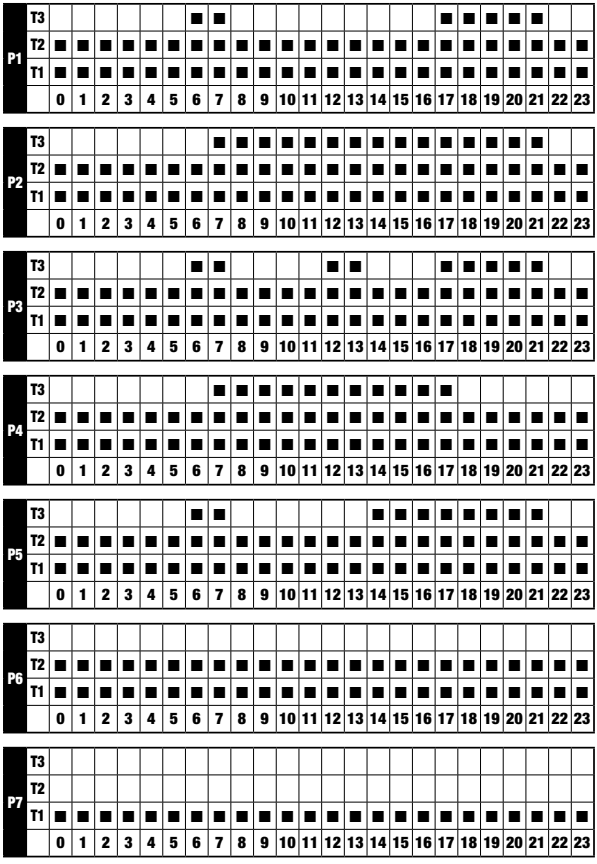
1. to switch off and to switch on the power of the chronothermostat
2. during the flashing of the backlighting press the key SET until the display shows the writing dEF.

Default values are indicated on page 32 of this manual.

## REFERENCE STANDARDS

Compliance with Community Directives
2014/35/UE (LVD) 2014/30/UE (EMCD)
is declared in reference to the harmonized standards:
**EN 60730-2-7, EN 60730-2-9**

# WINTER PRESET PROGRAMS



# SUMMER PRESET PROGRAMS

**P1**

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T3 | ■ | ■ | ■ | ■ | ■ | ■ | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | ■ | ■ |
| T2 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| T1 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

**P2**

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T3 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | ■ | ■ |
| T2 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| T1 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

**P3**

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T3 | ■ | ■ | ■ | ■ | ■ | ■ | | | ■ | ■ | ■ | ■ | | | ■ | ■ | ■ | | | | | | ■ | ■ |
| T2 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| T1 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

**P4**

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T3 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ |
| T2 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| T1 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

**P5**

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T3 | ■ | ■ | ■ | ■ | ■ | ■ | | | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | ■ | ■ |
| T2 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| T1 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

**P6**

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T3 | | | | | | | | | | | | | | | | | | | | | | | | |
| T2 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| T1 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

**P7**

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T3 | | | | | | | | | | | | | | | | | | | | | | | | |
| T2 | | | | | | | | | | | | | | | | | | | | | | | | |
| T1 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

# DEFAULT VALUES

| Parameter | min | max | step | default |
|---|---|---|---|---|
| winter manual setpoint | 2.0°C | 50.0°C | 0.1°C | 20.0°C |
| summer manual setpoint | 2.0°C | 50.0°C | 0.1°C | 24.0°C |
| T1 winter | 2.0°C | T2 | 0.1°C | 5.0°C |
| T2 winter | T1 | T3 | 0.1°C | 15.0°C |
| T3 winter | T2 | 50.0°C | 0.1°C | 18.0°C |
| T2 summer | 10.0°C | T3 | 0.1°C | 23.0°C |
| T3 summer | T2 | 50.0°C | 0.1°C | 25.0°C |
| antifreeze temperature | 1.0°C | 50.0°C | 0.1°C | 6.0°C |
| operating mode | - | - | - | winter |
| regulation type | - | - | - | ON/OFF |
| ON/OFF differential | 0.1°C | 1.0°C | 0.1°C | 0.3°C |
| proportional band | 0.5°C | 5.0°C | 0.1°C | 0.5°C |
| proportional period | 10’ | 30’ | 10’ | 10’ |
| password | 0 | 999 | 1 | 000 (deactivated) |
| winter hour meter | 0 | 65535 | 1 | 0 |
| summer hour meter | 0 | 65535 | 1 | 0 |
| winter/summer time | - | - | - | ON |
| winter/summer time change | - | - | - | Summer: LAST DAY7 march 02:00<br>Winter: LAST DAY7 october 03:00 |
| timed operations | 0’ | 45’ | 15’ | 0’ |

**DISPOSAL INFORMATION**

**ENG: Pursuant to art. 26 of Italian Legislative Decree 14 March 2014, no. 49 "Implementation of Directive 2012/19/EU on waste electrical and electronic equipment (WEEE)", regarding reducing the use of hazardous substances in electrical and electronic equipment, in addition to waste disposal.**

The crossed-out wheelie bin symbol on the equipment indicates that the product must be collected separately at the end of its useful life from other waste. The user will therefore have to return the received equipment at the end of its life to suitable separate collection centers for electronic and electrotechnical waste, or return it to the retailer who, in exchange for the purchase of equivalent appliance, is required to collect the product to be disposed of free of charge. Adequate separate collection for the subsequent sending of the decommissioned equipment for recycling, treatment and environmental disposal compatible helps to avoid possible negative effects on the environment and health and promotes the recycling of the materials of which the equipment is made. Illegal disposal of the product by the user entails the application of the sanctions provided for by current legislation on the matter.

**COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =**

RDZ S.p.A.
V.le Trento, 101 -
33077 SACILE (PN) - Italy
Tel. +39 0434 787511
Fax +39 0434 787522
rdzcentrale@rdz.it www.rdz.it

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