CC 10B

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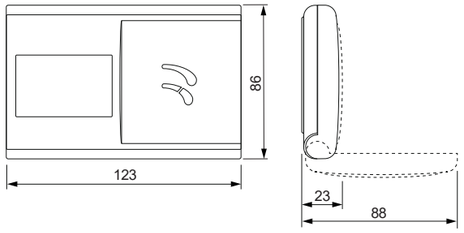
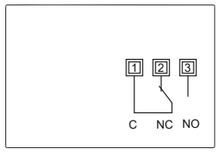
SCAN ME

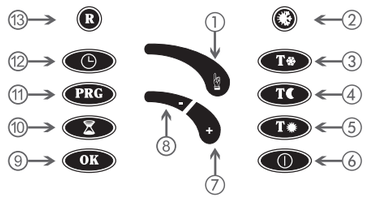
Device dimensions



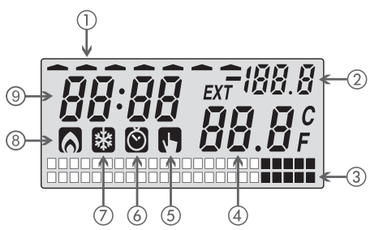
Connection diagrams



Device description



① Manual key
② Winter/summer key (only accessible with a tip)
③ Maintenance temperature (winter) / System off (summer) key
④ Economy temperature (winter) / Cooling (summer) key
⑤ Comfort temperature (winter) / Economy (summer) key
⑥ On/off Key
⑦ Increase/display maximum daily temperature key
⑧ Decrease/display minimum daily temperature key
⑨ Confirm key
⑩ Timer/delay key
⑪ Program/advanced programming key
⑫ Clock key
⑬ Reset key



① Day of the week
② Programming information
③ Active program graph for the current day (in automatic operation)
④ Measured room temperature
⑤ Manual mode
⑥ Timed operation active
⑦ Active load (conditioning mode)
⑧ Active load (heating mode)
⑨ Clock

User Manual
⚠ Read all the instructions carefully

DIGITAL SMART THERMOSTAT

Battery-powered wall-mounted electronic smart thermostat, suitable for controlling heating and air conditioning systems. It performs type 1B actions and is designed to operate in environments with pollution level 2 and overvoltage category III (EN 60730-1).

Code	Model	Description
4G001000	CC 10B	Weekly wall-mounted battery-powered smart thermostat

SAFETY WARNINGS

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

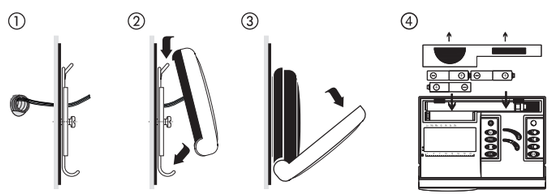
1) **The device must be installed by a qualified person, in strict compliance with the connection diagrams.**
2) **Do not power or connect the device if any part of it is damaged.**
3) **After installation, inaccessibility to the connection terminals without appropriate tools must be guaranteed.**
4)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

TECHNICAL SPECIFICATIONS

- Power supply:
  – 3 alkaline batteries 1.5 V (AAA type)
  – battery life: 1 year
  – depleted batteries indication
  – power reserve (for battery replacement): 1 minute
- Bistable relay rating: 5 A / 230 Vac
- Wall installation (or covering the 503 box)
- Operating modes: heating, air conditioning or off
- Temperature regulation:
  – On/Off with differential settable between 0.1°C and 1°C
  – proportional P8 with 0.8°C band (-0.3 ÷ 0.5°C) and 8 minute period
  – proportional P15 with 1.5°C band (-0.7 ÷ 0.8°C) and 15 minute period
- Daily resolution: 1 hour
- Measurement accuracy: ±0,5 °C
- Temperature measurement resolution: 0,1°C
- Temperature measurement range: 0°C ÷ 50°C
- Winter setpoint setting range (heating): 2 ÷ 50 °C
- Summer setpoint setting range (conditioning): 10 ÷ 50 °C
- °C/°F display selection
- Keypad lock with password
- Automatic summer/winter time change (disattivabile)
- Operating temperature: 0°C ÷ 50°C
- Storage temperature: -10°C ÷ 65°C
- Protection degree: IPXXD

Installation

- The device can be installed on the wall or to cover the 3-module flush-mounting box (type 503).
- We recommend positioning at a height of 1.5 meters from the floor, in an area that respects as much as possible the average temperature conditions of the entire environment.
- Avoid installation near doors or windows, in niches, behind doors and curtains or in positions with excess or total lack of ventilation, to avoid that the reading of the temperature measured by the probe is in some way offset.



① Secure the back of the device to the wall.
② Connect the load (see connection diagram), place the front panel on top of the wall-mounted part, paying particular attention to the correct coupling of the two parts, and close the device by rotating the front panel downward.
③ Open the front door.
④ Open the battery compartment by sliding the door upwards and insert the batteries, observing the correct polarity.

Initial start-up

- Insert the batteries and press the reset button **[R]** with a tip:
  this operation does not delete the schedules made, but only the date and time.

  All display segments light up for a few seconds, after which only the clock field will remain visible with 00:00 flashing until the clock is set.

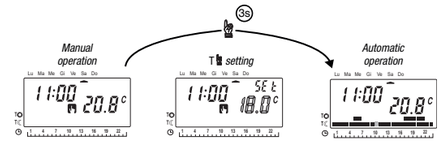
  Waring
  if the clock is not set, the thermostat will not adjust;
  it will only begin regulating after the time has been set.

- After setting the time, the programmable thermostat begins operating in the following mode: automatic winter operation with temperatures defined by the default program for the current day.

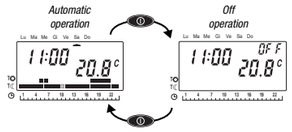
Operation

To switch from automatic to manual operation

To switch from manual to automatic operation



To switch from automatic operation (or manual) to the one switched off and vice versa

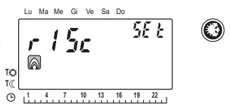


Attention: to operate correctly the smart thermostat requires the time and date insertion.

- **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 HI) or **"–"** (valore minimo LO).

  While viewing, you can reset these values by holding down the **"+"** (maximum value ki) or **"–"**(minimum value LO) until three dashes appear in place of the temperature.

- **Summer / Winter operation**
  To switch from winter operation to summer operation (or vice versa), press the" ✹ " key with a tip.

  The words **"SEt"** and "r 15C" (or **"Cond"**) appear on the display.

  The flashing **"⌂"** (or "✹") symbol appears.

  Using the **"+"** and **"–"** buttons, you can select one of the two modes.
  The device will switch to the desired mode by pressing the **"OK"** key or 20 seconds after the last operation.
  The summer mode features the same capabilities as the winter mode, so all parameters can be set by following the procedures described in this instruction manual.

Reference standards

12-2025

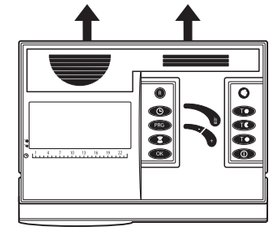
- Compliance with Community Directives:
  2014/35/UE (LVD) and 2014/30/UE (EMCD)
  is declared with reference to the following harmonized standards:
  • EN 60730-2-7 • EN 60730-2-9

V3IS01221-010

Battery replacement

- If the batteries are low, the device's display will start flashing and the word **"bAtt"** will appear.
- Replace the batteries as soon as possible.
- Remove the used batteries and replace them with new ones within one minute (power reserve) to avoid losing the date and time settings (the settings you make, however, are retained in memory even after this time limit).

Caution: After replacing the batteries, the display may take up to 15 seconds to turn back on.



Use only alkaline batteries

⚠ It is necessary to remove the batteries before the instrument is scrapped.
⚠ In case of replacement, dispose of the batteries in the special containers of separate waste collection.

Reset

- Perform a reset to delete any settings you've made and restore the factory defaults.
- To perform a reset:

1. Press the reset button **[R]**
2. Press the **"OK"** within 3 seconds until *dEF* appears on the display.

Factory values

Manual heating setpoint	20 °C
Manual conditioning setpoint	24 °C
T ☼ heating	5 °C
T ☾ heating	15 °C
T ✹ heating	18 °C
T ☾ conditioning	23 °C
T ✹ conditioning	25 °C
Antifreeze temperature	6 °C
Operating mode	Heating
Regulation type	On /Off
Differential	0.3 °C
Password	Disabled
Winter/summer time change	On
Unit of measurement	°C

information to users pursuant to art. 14 of the directive 2012/19 / EU of the european parliament and of the council of 4 july 2012 on waste electrical and electronic equipment (WEEE)

If the crossed-out bin symbol appears on the equipment or packaging, this means the product must not be included with other general waste at the end of its working life.

The user must take the worn product to a sorted waste center, or return it to the retailer when purchasing a new one.

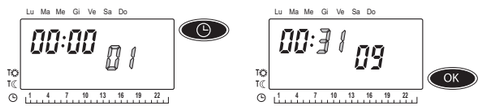
Products for disposal can be consigned free of charge (without any new purchase obligation) to retailers with a sales area of at least 400 m², if they measure less than 25 cm.

An efficient sorted waste collection for the environmentally friendly disposal of the used device or its subsequent recycling, helps avoid the potential negative effects on the environment and people's health, and encourages the re-use and/or recycling of the construction materials.

Function and program settings

DATE AND TIME SETTING

Press the " ◷ " key, the seconds will flash on the display.



Use the **"+"** and **"-"** keys to set the values and the **"OK"** key to confirm and move on to the next parameter.
The parameters to be entered are:
seconds (only synchronisation to 00), minutes, hours, year, month, day.

Once all values have been set, press the "◷" key to exit and return to normal operation (the instrument exits the date and time setting also if you do not press any key for at least 20 seconds)

Upon exiting this procedure, the display returns to showing the room temperature.

Automatic summertime - wintertime changeover
You can confi gure the device to independently manage the summer time update.
The factory setting includes:
• the passage winter time -> summer time (+1h) the last Sunday of March at 2:00 o'clock
• the passage summer time -> winter time (-1h) on the last Sunday of October at 3:00 o'clock

For the winter - summer time change,
Press "◷" for about 3 seconds
(If **"ChAnGE OFF"** appears, press **"+"** or **"-"** set it to **"On"**) and press **"OK"** to confirm.

For the winter--> summer time change
1) Press **"PRG"** to change the settings:
"LSt" will start flashing
2) Press **"+"** or **"-"** to select the week of the month
--> to Summer time
(**" 1St"** first, **"2nd"** second, **"3rd"** third,**"4th"** fourth, **"LSt"** last)
3) Press **"OK"** to confirm: the segment corresponding to Sunday starts flashing
4) Press **"+"** or **"-"** to select the day of the week
5) Press **"OK"** to confirm: **"03"** starts flashing
6) Press **"+"** or **"-"** to select the month
7) Press **"OK"** to confirm: **"02:00"** starts flashing
8) Press **"+"** or **"-"** to select the time
9) Press **"OK"** to confirm: all segments are steady

For the Summer --> Winter time change
1) Press **"OK"**
2) Repeat the instructions from point 1) to 8)
3) Press **"OK"** to confirm and exit the settings.

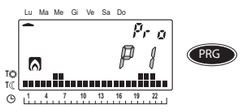
Note: the standard time change -> DST is identifi ed by the symbol ❄,
the DST change -> standard time is identifi ed by the symbol ⌂.
By default, the device is configured to switch to daylight saving time on the last Sunday in March at 2:00 AM and return to standard time on the last Sunday in October at 3:00 AM, in accordance with what happens in Europe.

PROGRAMME SETTINGS

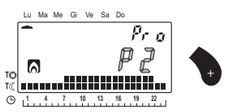
The factory setting is:
• the P1 program from Monday to Friday
• the P2 program on Saturday and Sunday
If this programming doesn't suit your needs, you can:
• assign a different program for one or more days of the week
• modify one or more existing programs by customizing their profile, that is, assigning different temperature levels for one or more hours of the day.

How to choose a different program for the day Y

Press the **"PRG"** key on the display displays:
• the indication relating to Monday
• The selected program appears flashing on the temperature field (in the example, P1).
• the related program graph
• the "⌂"or "❄" symbol depending on the set operation (summer or winter).
If the highlighted program is OK, move on to the next day by pressing the **"OK"** key.



If the highlighted program is not suitable for that day, you can search for another using the **"+"** and **"-"** keys, which change the**"Px"** value in the temperature field; when you change the program, the graph for the corresponding program also changes.
You can move to the next day by pressing the **"OK"** key.

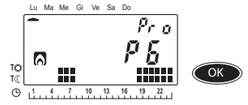


How to customise the profile of a Px program

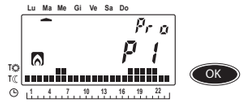
If no program meets the user's needs, select any program and press the **"PRG"** key again.

• starting from midnight 00:00, press the keys T ❄, T ☾ and T ✹, you can change the selected temperature for the selected time and, at the same time, advance to the next hour.
• Using the **"+"** and **"-"** keys, you can move from hour to hour without changing the set temperature

Pressing the **"OK"** key confirms the modified program and returns to the situation with **" Px"** flashing in the temperature field.

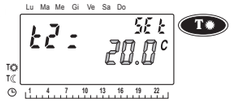


Pressing the **"OK"** key confirms the program for that day and moves on to the next day until Sunday, after which normal operation returns.



TEMPERATURES T1, T2, T3 SETTING

In any operating mode, when the T ❄, T ☾ and T ✹ are pressed, the display shows the text corresponding to the temperature being changed (for T ❄ appears, **"t01:"**, for **T** ☾ appears **"t 1:"** for T ✹ appears **"t2:"**), and the value of that temperature flashes.



With the **"+"** and **"-"** keys you can change the value and with the **"OK"** key, you confirm the change and return to normal operation.

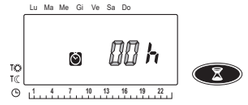
The setting limits for the sets are given in the technical characteristics

TIMING SETTING

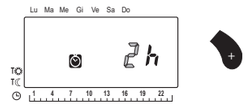
Set a timing to prolong the current operation for the duration of the timing itself.
There are 3 timings available:
• **Timed manual:** set a timing during manual operation to maintain this operation until timing has elapsed. At the end of the timing, the device activates the automatic operation.
• **Timed automatic:** set a timing during the automatic operation to maintain this operation until the timing has elapsed. At the end of the timing, the device activates the off operation
• **Off timed:** set a timing during off operation to maintain this operation until timing has elapsed. At the end of the timing, the device activates automatic or manual operation, depending on which operation was active before switching off.

How to set a timing

Press the **"⧗"** key: **"00"** and **"h"** flashes on the display.



Use the **"+"** and **"-"** keys to set a value and the "◷" key to set the unit of measurement (*h* = hours, *d*= days).



Finally, press the "⧗" key to confirm and save, or wait 20 seconds.
When a timer is active, the display **"⏲"** is lit.

To view the remaining time, press the "⧗" key and to return to the main page without changes, press **"OK"**.

ADVANCED PARAMETERS SETTING

To enter advanced programming, press the **"PRG"** key for more than three seconds.

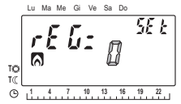
The text relating to the parameter appears on the display and the set value flashes.

The parameters can be changed with the **"+"** and **"-"** keys and you move on to the next parameter by pressing the **"OK"** key.

The advanced programming parameters (listed in the order of appearance) are as follows:

Type of regulation

The choice of control type depends on the characteristics of the system to be controlled.
In most cases, ON/OFF control is recommended (default setting), while when there is high thermal inertia and more precise control is required (large spaces, fan coils, cast iron radiators, etc.), proportional control is preferable.

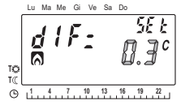


Proportional control can only be selected for WINTER-HEATING operation.

Choose:
0 = on/off with adjustable differential
P08 = proportional with 0.8°C band and 8 minute period
P 15 = proportional with 1.5°C band and 15 minute period

Parameters for the regulation type

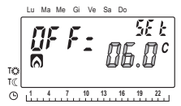
For on/off control, you can choose the differential value (**"d IF"**), which can have values between 0.1°C and 1°C. Low differential values allow more precise control but also more frequent system switching on and off. The factory setting is 0.3°C.



Antifreeze temperature

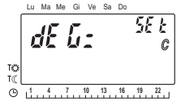
It is only active in WINTER-HEATING mode. It indicates the temperature that is maintained when the thermostat is off..

It can be set between 1.0°C and 50°C or can be excluded by selecting **"---"**.
The factory setting is 6.0°C.



Unit of measurement

Allows you to choose the unit of measurement between degrees Celsius (C) and Fahrenheit (F).



Password for key lock

This setting is very useful when you want to allow only authorized users to change settings (e.g., offices, public spaces, schools, etc.).
A value from 000 to 999 can be selected.

To activate the keypad lock, hold down the **T** ✹, **T** ☾ and **T** ❄ keys for at least 3 seconds. Once the keyboard is locked, pressing any key will display **"bLoC"**. At this point, to unlock the keyboard you need to press the **T** ✹, **T** ☾ and **T** ❄ keys again for at least 3 seconds, enter the password chosen previously and confirm with the **"⧗"** key.

Hour meter of system operation

This page displays the total number of system operating hours (relay ON) for the current mode (identified by the ❄ or ⌂ icons).
The hour counter has 5 digits and can be reset by holding down "◷" until 00000 appears.

Battery charge level

It indicates the battery charge level as a percentage.
When the batteries are nearly empty, the device's display flashes and the word **"bAt"** lights up.

Under these conditions, proper operation is no longer guaranteed, and it is recommended to replace the batteries (see "Replacing the Batteries").