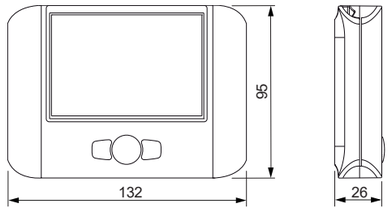
CC 12B

4Green

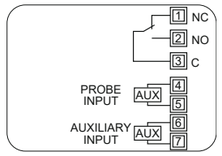
Post office box 5 31049
Valdobbiadene (TV)
www.4green.it

Download the user manual now
SCAN ME

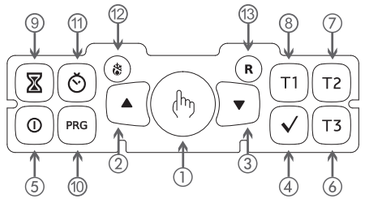
Device dimensions



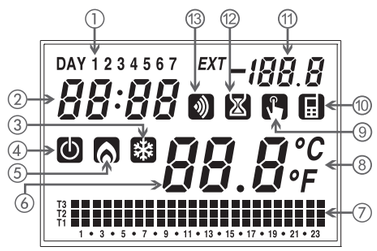
Connection diagrams



Device description



① Manual key
② Increase / display maximum daily temperature key
③ Decrease key / display minimum daily temperature
④ Confirm key
⑤ On/off Key
⑥ Temperature key **T3**
⑦ Temperature key **T2**
⑧ Temperature key **T1**
⑨ Timer/delay key
⑩ Program/advanced programming key
⑪ Clock key
⑫ Winter/summer key (reachable only with a tip)
⑬ Reset key (reachable only with a tip)



① Day of the week
② Clock
③ Active load (conditioning mode)
④ Operation off
⑤ Active load (heating mode)
⑥ Measured room temperature
⑦ Active program graph for the current day (in automatic operation)
⑧ Unit of measurement
⑨ Manual mode
⑩ Telephone dialer
⑪ Measured outside temperature
⑫ Timed operation active
⑬ (not used)

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
4G001200	CC 12B	Weekly wall-mounted battery-powered smart thermostat

SAFETY WARNINGS

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

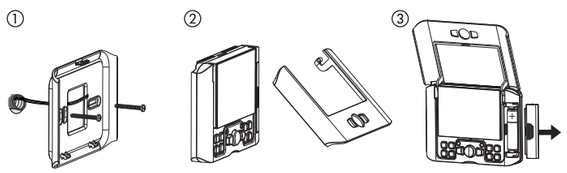
1) **The device must be installed by a qualified person, in strict compliance with the connection diagrams.**
2) **Do not power or connect the device if any part of it is damaged.**
3) **After installation, inaccessibility to the connection terminals without appropriate tools must be guaranteed.**
4) **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:
  – 1 alkaline battery 1.5 V (AA type)
  – battery life: 2 years approximately
  – depleted batteries indication
  – power reserve (for battery replacement): 1 minute
- Terminal block:
  – 3 terminals for 1.5 mm² cables for bistable output relay 8 A / 250 Vac
  – 2 terminals for 1.5 mm² cables auxiliary input for connecting a probe
  – 2 terminals for 1.5 mm² cables for auxiliary input for connecting an external contact to remotely turn the thermostat on and off
- Wall installation (or covering the 503 box)
- Operating modes: heating, air conditioning or off
- 5 adjustable temperatures:
  – T1, T2 and T3 for automatic regulation
  – T0 antifreeze temperature settable in advanced programming
  – T manual temperature in manual operation
- Temperature regulation:
  – On/Off with differential settable between 0.1 °C and 1 °C
  – proportional with adjustable band and period
- Programming: weekly
- Daily resolution: 1 hour
- Delayed start: adjustable between 15, 30, or 45 minutes (independent for each hour)
- Measurement accuracy: ±0.5 °C
- Temperature measurement resolution: 0.1°C
- Temperature range measured with internal probe: 0°C ÷ 50°C
- Temperature range measured with external probe: -40°C ÷ 60°C
- Setpoint setting range 2 ÷ 35 °C
- °C/°F display selection
- Keypad lock with password
- Automatic summer/winter time change (deactivable)
- 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 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:
  All display segments light up and the relay activates for 3 seconds, after which only the clock field with 12:00 flashing will remain visible until the clock is set.

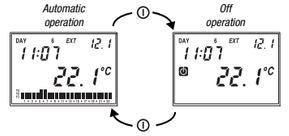
Warning
if the clock is not set, the thermostat will not adjust;
it will only begin regulating after the time has been set.

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



Note: This command takes precedence over the telephone activator command, so if you turn off the device using the button, it will no longer be possible to turn the device on/off with the activator.

- **Minimum and maximum values**
  When the device is in automatic mode or off, you can view the minimum and maximum temperature values measured. To display these values, press the "▲" (maximum value HI) or "▼" (minimum value LO).

  While viewing, these values can be reset by holding down the "▲" (maximum value HI) or "▼" (minimum value LO) button 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 display shows the flashing text "rISE" (or "Cond") and the symbol "🏠" (or "❄").

  Using the "▲" and "▼" buttons, you can select one of the two modes
  The device will switch to the desired mode by pressing the "✓" key or 45 seconds after the last operation.
  The potential of summer operation is the same as that of winter operation, so all parameters can be set by following the procedures described in this instruction manual.

- **Emergency regulation (heating only)**
  In the event of a probe error, if the antifreeze function is not disabled, the device ctivates the load for 10 minutes every 4 hours. The temperature field on the display displays "---".

  If the time is missing, the device starts operating in off mode, adjusting according to the antifreeze temperature (if not previously deactivated).
  Set the date/time for normal operation.

- **External contact shutdown**
  An external contact, such as a telephone activator, can be connected to the device to remotely turn the device on and off.
  - open --> normal operation (according to settings)
  - closed --> device in operation off

The remote off condition is signalled on the display by the simultaneous lighting of the "⏻" and "⏼" symbols.

Note: The OFF command from the keyboard has priority over the OFF command from the dialer, so to control on/off commands via the dialer, the device must not be turned off.

Reference standards

12-2025

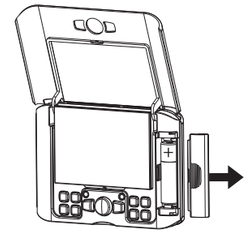
- Compliance with Community Directives:
  2014/35/UE (LVD) e 2014/30/UE (EMCD)
  is declared with reference to the following harmonized standards:
  • EN 60730-2-7 • EN 60730-2-9

V3IS01218-010

Battery replacement

- If the battery is low, the device's display will start flashing, although it will continue to perform all functions.
- 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"** with a tip
2. Press the "✓" within 3 seconds until "dEF" appears on the display.

Factory values

Manual heating setpoint	20 °C
Manual conditioning setpoint	24 °C
T1 heating	5 °C
T2 heating	15 °C
T3 heating	18 °C
T2 conditioning	23 °C
T3 conditioning	25 °C
Antifreeze temperature	6 °C
Operating mode	Heating
Regulation type	On /Off
Differential	0.3 °C
Proportional band	0.5 °C
Proportional period	10 '
Password	123
Winter/summer time change	On
Activation delay	0'
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.

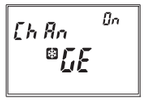
Use the "▲" and "▼" keys to set the values and the " ✓" key to confirm and move on to the next parameter.
The parameters to be entered are:
seconds (only synchronisation to 00), minutes, hours, year, month, day.

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 45 seconds)

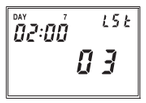
Upon exiting this procedure, the display returns to showing the room temperature.

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 " ✓" 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 in which to change from Winter --> to Summer time (" 1St" first, "2nd" second, "3rd" third,"4th" fourth, "LSt" last)
3) Press " ✓" to confirm: the segment corresponding to Sunday starts flashing
4) Premere "▲" or "▼" to select the day of the week
5) Press " ✓" to confirm: "03" starts flashing
6) Press "▲" or "▼" to select the month
7) Press " ✓" to confirm: "02:00" starts flashing
8) Press "▲" or "▼" to select the time
9) Press " ✓" to confirm: all segments are steady



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

Note: the standard time change -> DST 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.

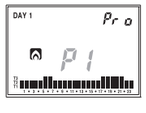
PROGRAMME SETTINGS PRG

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.

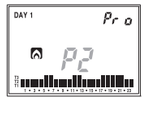
How to choose a different program for the day Y

Pressing the **"PRG"** key, the display shows:
• 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).



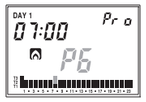
If the highlighted program is OK, move on to the next day by pressing the ✓" key.

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" ✓".

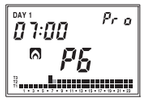


How to customise the profile of a Px program

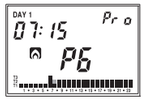
If no program meets the user's needs, select any program and press the **"PRG"** key again.



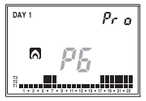
• Using the **"T1"**, **"T2"** and **"T3"** you can change the selected temperature for the selected time and, at the same time, advance to the next hour.
• Using the "▲" and "▼" keys, you can move from hour to hour without changing the set temperature



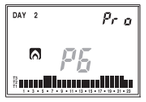
By pressing the "⏳" key, you can set a delay for that specific time. Each press of the "⏳" key increases the delay by 15 minutes.



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



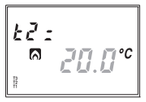
Pressing the " ✓" key confirms the program for that day and moves on to the next day until Sunday, after which normal operation returns.



TEMPERATURES SETTING T1 T2 T3

In any operating mode, when the **"T1"**, **"T2"** and **"T3"** are pressed, the display will show the temperature being changed and the corresponding temperature value will flash.

With the "▲" and "▼" keys you can change the value and with the " ✓" 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

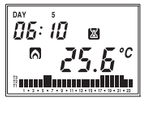
• **Off timed:** set a timing during off operation to maintain this operation until timing has elapsed. At the end of the timing, the device activates automatic or manual operation, depending on which operation was active before switching off.

How to set a timing

Press the "⏳" key: "00 h"flashes on the display.

Use the "▲" and "▼" you can choose a value between 0 and 99
Pressing the "⏲" key allows you to choose the unit of measurement between hours and days. Changing the unit of measurement resets the set timing value.

Finally, press the "⏳" key to confirm and save, or wait 45 seconds. When a timer is active, the "⏳" display lights up.



To view the remaining time, press the "⏳" key and to return to the main page without making any changes, press " ✓".

Note: If you change the time during a schedule, the schedule will not be updated.

Note: The hour count also includes the time in which the programming is performed. Similarly, if the unit of measurement is days, the current day is also included in the count. Time periods in hours expires at the end of the hour, while those in days end at midnight.

ADVANCED PARAMETERS SETTING PRG

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 " ✓" key.

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

Type of regulation
(this menu is active only if operating mode = heating)

Choose
• to choose the on/off regulation.
• to choose proportional adjustment

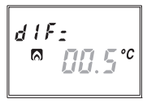
The factory setting: (on/off).

Note: The on/off setting is suitable for most home settings. Therefore, it is advisable to change this setting only when absolutely necessary.

Parameters for the regulation type
(this menu varies depending on the type of adjustment chosen)

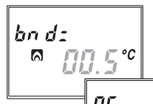
If the control type chosen is on/off, set the differential "dIF".

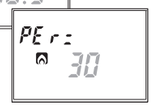
Allowed values: 0.1 °C ÷ 1 °C
The factory setting: 0.3 °C



If the control type chosen is proportional, set the band "bnd"and the period "PEr".

Allowed values: 0.5 °C ÷ 5 °C (band),
10, 20 or 30 minutes (peiod).
The factory setting: 0.5 °C (band),
10 minutes (period).





Antifreeze temperature
(this menu is active only if operating mode = heating)

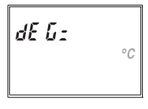
The antifreeze temperature prevents the risk of freezing the system when the programmable thermostat is set to off.

Allowed values: --- , 1 °C ÷ 10 °C
The factory setting: 6 °C.

Note: The "---" setting disables the antifreeze function; in this case, when the device is off, no minimum temperature is guaranteed.

Unit of measurement

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



Probe input configuration

The device allows you to connect a remote external temperature probe to display (and possibly adjust) the temperature measured at its location.

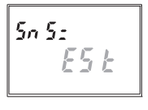
Set "YES" or "no" to enable or disable the display of the temperature measured by the external probe.

By setting "YES" the word **"EXT"** appears on the display followed by the temperature value measured by the probe.

Choice of regulation probe

If an external probe is present, you can choose whether to use the internal or external probe as the control sensor.

Set " Int" if you want to use the internal probe or "ESt" if you want to use the external probe



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.
The factory setting 123

To activate the keypad lock, hold down the **"T1"**, **"T2"** and **"T3"** keys for at least 3 seconds.

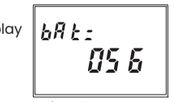
Once the keyboard is locked, pressing any key will display "bLoC". At this point, to unlock the keyboard you need to press the **"T1"**, **"T2"** and **"T3"** keys again for at least 3 seconds, enter the password chosen previously and confirm with the " ✓".

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 "🏠"). 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").