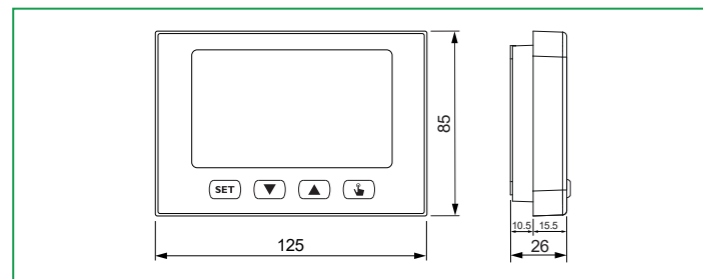


Connection diagrams

CC 13A
Download the user manual now

CC 13B
Download the user manual now

Device dimensions



Device description

- 1 Clock, day of the week
- 2 Manual operation, off, heating, air conditioning
- 3 Graph of the active program for the current day (in automatic operation)
- 4 Measured room temperature
- 5 Temperature measured by the external probe
- 6 Programming menu icon group

Keyboard
The keys have different functions depending on the device's status and will be described in detail in this user manual.

There are two types of presses:
- short press
- long press, lasting more than 3 seconds
While a key is pressed, the display is blue.

Reference standards

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

User Manual

Read all the instructions carefully

ELECTRONIC SMARTH THERMOSTATS

Wall-mounted electronic Smart thermostats suitable for temperature regulation in both heating and air conditioning modes, which perform type 1B functions and are designed to operate in environments with pollution degree 2 and overvoltage category III (EN 60730-1).

- CC 13A, with mains power supply
- CC 13B, with battery power supply and configurable auxiliary input for connecting a temperature probe or an external contact with which to turn the smart thermostat on and off remotely.

Code	Model	Description
4G001300	CC 13A	Weekly smart thermostat 230V
4G001400	CC 13B	Weekly battery smart thermostat

SAFETY WARNINGS

- During product installation and operation it is necessary to observe the following instructions:
- The device must be installed by a qualified person, in strict compliance with the connection diagrams.
 - Do not power or connect the device if any part of it is damaged.
 - After installation, inaccessibility to the connection terminals without appropriate tools must be guaranteed.
 - The device must be installed and activated in compliance with current electric systems standards.
 - Before accessing the connection terminals, verify that the leads are not live.
 - In the electrical system of the building where the instrument must be installed, a protection device from the overcurrents must be present (only for CC 13B).

TECHNICAL SPECIFICATIONS

- Power supply CC 13A:
 - 230 Vac (-15% ÷ +10%) 50/60 Hz
 - max absorption: 6 VA / 230 Vac
 - power reserve (for blackout): approximately 2 days
- Power supply CC 13B:
 - 2 alkaline batteries 1.5 V (AAA type)
 - battery life: 12 months
 - depleted batteries indication
 - Power reserve (for battery replacement): 1 minute
- Wall or cover installation of the 503 box
- Terminals CC 13A:
 - 3 terminals for 1.5 mm² for monostable output relay 5 A / 250 Vac
 - 2 terminals for 1.5 mm² cables for power supply
- Terminals CC 13B:
 - 3 terminals for 1.5 mm² for bistable output relay 5 A / 250 Vac
 - 2 terminals for 1.5 mm² cables for digital input (to connect a temperature probe or an external contact to turn the thermostat on and off remotely)
- Regulation type:
 - 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 (can set independent switch-on delays of 15, 30, and 45 minutes for each hour)
- 5 adjustable temperatures:
 - T1, T2, T3 in automatic operation
 - Tm in manual operation
 - Toff in off-operation (antifreeze)
- Display of measured temperature: 0 ÷ 50 °C
- Measurement accuracy: ±0.5 °C
- Measured temperature resolution: 0.1 °C
- Setpoint setting range: 2 ÷ 35 °C
- Clock accuracy: ±1 second/day
- Key lock by password
- Automatic summer/winter time change (you can deactivate it)
- Operating temperature: 0 ÷ 50 °C
- Storage temperature: -10 ÷ 65 °C
- Operating humidity: 20 ÷ 90% non condensing
- Protection degree: IP40
- Insulation: reinforced among accessible parts (frontal) and all other terminals



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.

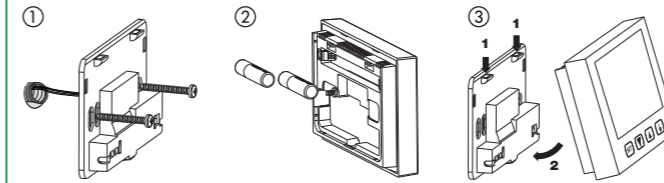
The user must take the worn product to a sorted waste center, or return it to the retailer when purchasing a new one.

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.

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.



- Connect the cables to the terminal block on the back of the base (see connection diagram) and secure the device to the wall.
- Insert the batteries into the dedicated compartment, observing the correct polarity (only for CC 13B)
- Position 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 downwards.

Function

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 H) or (minimum value L).

While viewing, you can reset these values by holding down the button until three dashes appear in place of the temperature.

Emergency regulation (heating only)

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

In case of time loss 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.

Switching off from (and via) external contact (only for C 13B)

To use this functionality, check the correct setting of the auxiliary input (see Auxiliary input configuration).

- open → normal operation (according to the settings)
- closed → smart thermostat in off mode

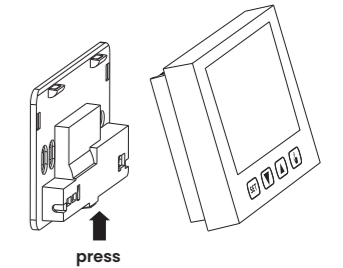
Remotely off status is displayed with the flashing symbol to differentiate it from the keyboard off status .

Attention: remotely off status (closed contact) is more important than any other programming, so the device will be in off status until the contact doesn't return to the open position.

Battery replacement (only for CC 13B)

- If the batteries are low, the device's display will start to flash, 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 a maximum of 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).

To access the battery compartment:



Use only alkaline batteries

Attention: after batteries replacement, the display will switch on within 15 seconds at max.

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

Backlighting management

CC 13A

The CC 13A features a blue backlight that is on during normal operation but can be turned off if the installation requires it (for example, in bedrooms).

In this condition the smart thermostat will continue to operate normally and the backlighting activates only when you enter setpoint modification, advanced programming, pin insertion menu.



CC 13B

The CC 13B has a blue backlight that is normally off and remains on for a few seconds after a button is pressed.

Reset

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

- Switch off and switch on the power of the device (CC 13A) or to extract the smart thermostat from the wall-mounted base and reinsert it (CC 13B).
- during the flashing of the backlighting press the key until the display shows the writing dEF.

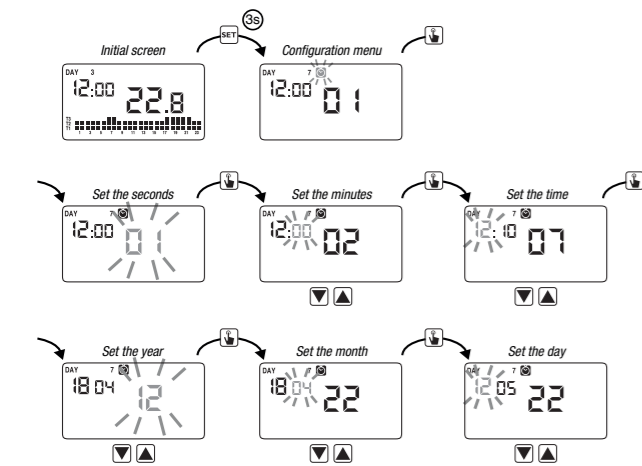
Factory values

Manual heating setpoint	21 °C
Manual conditioning setpoint	25 °C
T1 heating	15 °C
T2 heating	18 °C
T3 heating	21 °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	--- (deactivated)
winter/summer time change	On
Activation delay	0'

Function and program settings

DATE AND TIME SETTING

To set the date and time values, proceed as follows:



To exit the date and time setting:

- press the key **SET** once to return to the configuration menu
- press the key **SET** twice to exit the menu and return to the initial screen
- to change the settings of the summer/winter time change, press and hold for a long time the key **↓** (see "Configuration of the summer/winter time change")

Configuration of the summer / winter time change

You can configure 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

To change the configuration of the summer/winter time change:

- when changing any of the clock parameters (seconds, minutes, hour, year, month or day), keep the key **↓** pressed for a long time until the display shows **Aut**

If the function is enabled (AUTO ON), for each time change it is necessary to set:

- 1 the day of the week (1= Monday,...7= Sunday)
- 2 the week of the month (1st= first, 2nd= second,...LSt= LR)
- 3 the month
- 4 time

using the keys **▲** and **▼** to set the value and the key **↓** to confirm and move on to the next parameter.

To exit the summer/winter time change configuration:

- press the key **SET** once to return to the configuration menu
- press the key **SET** twice to exit the menu

Note: the standard time change -> DST is identified by the symbol **☀**, the DST change -> standard time is identified 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 European practice.

PROGRAM SETTING

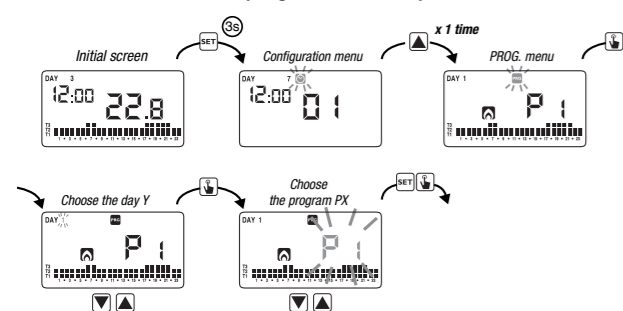
The factory setting includes:

- the P1 program from Monday to Friday
- the P2 program on Saturday and Sunday

If this program is not suitable for your needs, you can:

- assign a different program for one or more days of the week
- modify one or more existing programs by personalizing the 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



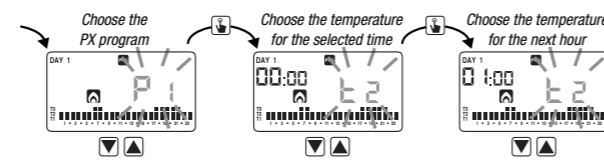
If the program meets the needs:

- press the key **SET** once to confirm and choose another day to which to assign a different program
- press the key **SET** twice to return to the configuration menu
- press the key **SET** three times to exit the menu and return to the initial screen

If no program meets the needs:

- choose the one that is closest to your needs and press the key **↓** to customize the profile

How to customise the profile of a Px program



- starting from midnight 00:00, press the keys **▲** and **▼** to assign to each hour of the day one of the 3 possible temperatures (T1, T2, T3) and the key **↓** to confirm and go to the next hour.
- to enter a switching delay for the selected hour, hold down the key **↓** for a long time.

For more information about switching delay, see "How the switching delay works" When the profile program is suitable for your needs:

- press the key **SET** to exit the customization.

How the switching delay works

Set a switching delay for a specific hour to maintain, for the duration of the delay, the temperature value assigned to the previous hour.

For example, if the program includes: T2 from 12 to 13 and T3 from 13 to 14 with 30 minutes delay the smart thermostat adjusts the temperature based on the value of T2 from 12 to 13.30 and T3 from 13.30 to 14

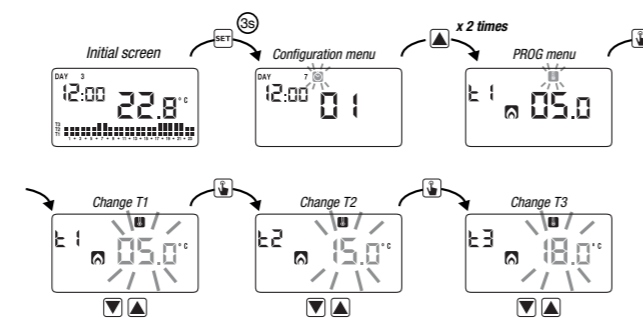
It is possible to set delays of 15, 30, 45 minutes, independent for every hour of the day.

TEMPERATURES T1, T2, T3 SETTING

The factory setting includes:

- T1 = 15°C, T2 = 18°C, T3 = 21°C (heating/winter operation **☀**)
- T1 = off, T2 = 23°C, T3 = 25°C (conditioning /summer operation **☀**)

How to change the temperature values T1/ T2/ T3



To exit the temperatures change:

- press the key **SET** once to return to the configuration menu
- press the key **SET** twice to return exit the menu and return to the initial screen

Note: temperature values between **L0** (minimum value) and **H1** (maximum value) are allowed. These factory values are: **L0** = 2°C, **H1** = 35°C

Warning: The set temperature values must comply with the condition $T1 \leq T2 \leq T3$. In conditioning, T1 cannot be set and corresponds to air conditioning off.

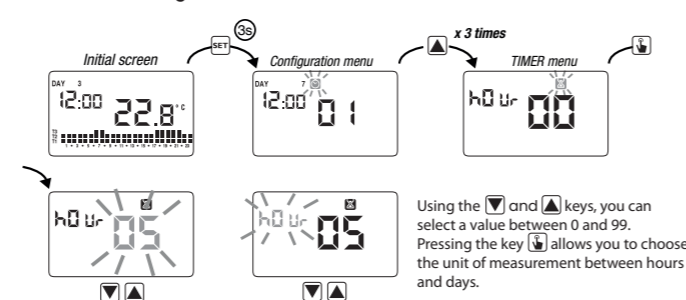
TIMING SETTING

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



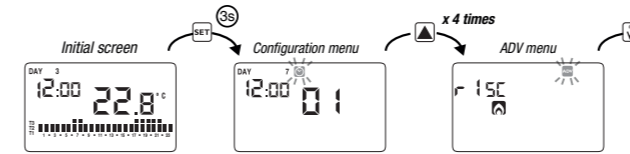
Using the **▼** and **▲** keys, you can select a value between 0 and 99. Pressing the key **↓** allows you to choose the unit of measurement between hours and days.

To exit the timing change:

- press the key **SET** once to return to the configuration menu
- press the key **SET** twice to exit the menu and return to the initial screen

When a timing is in progress, the symbol **⏰** is lit. Note: to cancel a timing in progress or to exit without activating the timer, set 00'. The timing ends in the case of changes to the operating mode.

ADVANCED PARAMETERS SETTING



In the ADV menu, the parameters related to the advanced configuration of the device are proposed in sequence. Press:

- the keys **▲** and **▼** to change the value of the selected parameter
- the key **↓** to go to the next parameter
- the key **SET** to exit and confirm the changes

Note: the device exits the menu after about 40 seconds without any key being pressed.

Operating mode

Setting up:

- **r 15°C** if the device is connected to a heating system (winter operation)
- **cond** if the device is connected to an air conditioning system (summer operation)

Factory value: **r 15°C** (heating).

Type of regulation

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

Set:

- **☐** to choose the on/off adjustment.
- **r** to choose the proportional adjustment.

Factory value: **☐** (on/off).

Note: the on/off adjustment is suitable for most household situations.

It is therefore advisable not to change this parameter unless absolutely necessary.

Parameters for the regulation type

(this menu varies depending on the chosen regulation type)

If the type of adjustment chosen is on/off, set the differential **dIF**.

Allowed values: 0.1°C ÷ 1°C
Factory value: 0.3°C

If the type of adjustment chosen is proportional, set the band **band** and the period **PEr**.

Allowed values: 0.5°C ÷ 5°C (band), 10, 20 or 30 minutes (period).
Factory value: 0.5°C (band), 10 minutes (period).

Antifreeze temperature

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

The anti-freeze temperature prevents the system from freezing up when the operation is set to "Off" on the smart thermostat **☐**.

Allowed values: ---, 1°C ÷ 10°C
Factory value: 6°C.

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

Auxiliary input configuration - Est (only for CC13B)

The device allows you to connect a non-live contact (see External contact shutdown) or a remote external temperature probe for displaying (and possibly adjusting) the temperature measured where it is located.

Set:

- **dIF** if you want to connect an external contact.
- **°C** if you want to connect an external temperature probe

Factory value: **dIF** (external contact).

Selecting the control probe

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

Set "int" if you want to use the internal probe or "Est" if you want to use the external probe.

When setting the external probe, the "EXT" icon lights up on the main screen.

During normal operation, the display shows the temperature measured by the probe selected for regulation (internal or external). By pressing the **SET** key, the temperature value measured by the other probe can be displayed for 3 seconds.

Password for key lock

In particular installation conditions, for example in public buildings, hotels, etc., it may be necessary to lock the keypad in order to prevent unauthorized persons from changing the settings.

To enable keypad locking, set a password between 001 and 999. To deactivate the lock, press and hold the key **↓** until "----" is set.

When the keypad is locked, the device performs all its functions using the set settings. If the keypad lock is active and any key is pressed, the message **blck** appears on the display for a few seconds.

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.

Hour meter of system operation

This page shows the total number of hours of system operation (relay ON) for the current mode (identified by the **☀** or **☀** icons).

The hour counter has 4 digits and can be reset by holding down the **↓** key for a long by time until **0000** appears.

