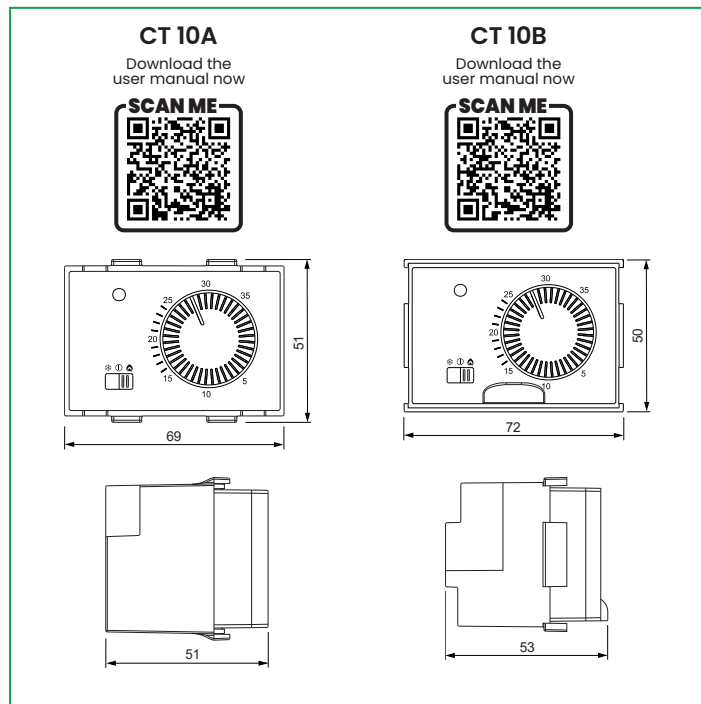
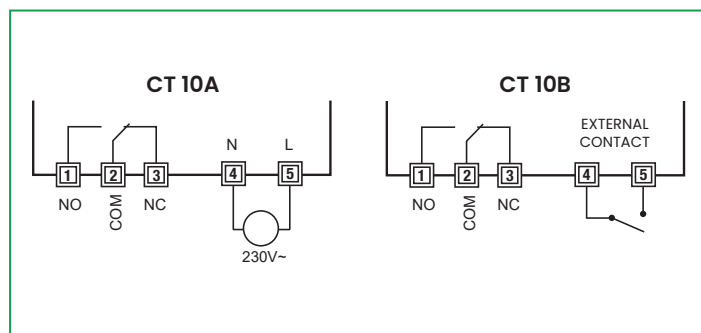


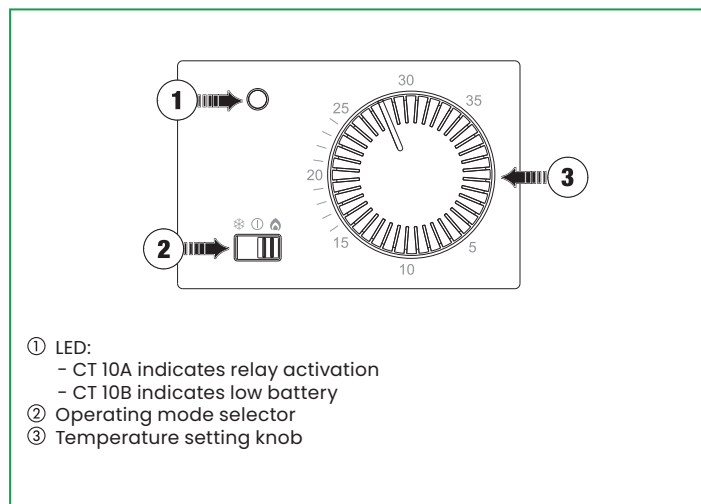
Device dimensions



Connection diagrams



Device description



Reference standards

09-2025

- Compliance with Community Directives 2014/35/UE (LVD) and 2014/30/UE (EMCD) is declared with reference to the following harmonized standards:
• EN 60730-2-9 • EN 62479

ELECTRONIC THERMOSTATS

Flush-mounting electronic thermostats for temperature control both in heating and cooling. They perform actions of type 1B and are intended for operating in environments with Pollution Degree 2 and Overvoltage Category III (EN60730-1).

- CT 10A, with mains power supply.
- CT 10B, with battery power supply and an input for the connection of an external contact with whom to reduce the setpoint of 3°C.

| Codice | Modello | Descrizione |
|----------|---------|---------------------------------------|
| 4G000400 | CT 10A | 230V Thermostat |
| 4G000500 | CT 10B | Battery thermostat with digital input |

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 (for CT 10A model only).

TECHNICAL SPECIFICATIONS

- Power supply CT 10A: - 230Vac (-15% ÷ +10%) 50/60Hz
- max absorption: 6 VA / 230Vac
- Power supply CT 10B: - 2 alkaline batteries 1.5V (AAA type)
- battery life: 12 months
- depleted batteries indication
- Installation on 3 modules box (503 type)
- Terminals CT 10A:
- 3 terminals for 1.5 mm² cables for bistable output relay 5A / 250 Vac
- 2 terminals for 1.5 mm² cables for power supply
- Terminals CT 10B:
- 3 terminals for 1.5 mm² cables for output relay 5A / 250 Vac
- 2 terminals for 1.5 mm² cables for digital input (3°C setpoint reduction)
- Operating mode: summer/winter/off (with antifreeze)
- Regulation type:
- on/off with fixed differential (0.3°C)
- P8 proportional with 0.8°C band (-0.3 ÷ +0.5°C) and period 8 minutes
- P15 proportional with 1.5°C band (-0.7 ÷ +0.8°C) and period 15 minutes
- Measurement precision: ±0.5 °C
- Setpoint range: 5°C ÷ 35°C
- Antifreeze temperature: 2°C (fixed)
- Operating temperature: 0°C ÷ +50°C
- Storage temperature: -10°C ÷ +65°C
- Operating humidity: 20÷90% non condensing
- Protection degree: IP40
- Insulation: reinforced among accessible parts (frontal) and all other terminals
- Mechanical locks on the knob to limit the setpoint



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.

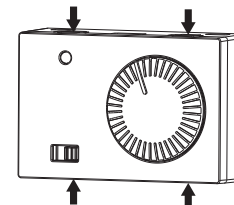
The user must take the worn product to a sorted waste center, or return it to the retailer when purchasing a new one.

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

- Install the thermostat 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.
- 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 allow for adaptability with the main domestic range.
- When you turn on for the first time the thermostat is performed a cycle of switching of the relay of OFF-ON-OFF type of the total duration of seconds. Once finished the cycle the thermostat begins with the regulation.
- To change the color of the device, remove the knob and the faceplate by acting on the hooks on the top and bottom sides and replace them with the ones included in the package.

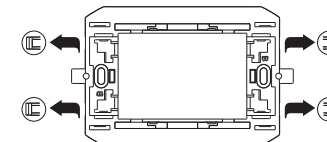


Supports installation

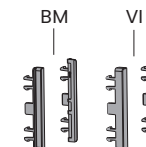
| SUPPORT | SERIES |
|---------|--|
| A | ABB: Mylos AVE: S44 BTICINO: Living, Light, Light Tech, Livinglight, Axolute VIMAR: Eikon, Eikon Evo, Plana |
| B | ABB: Chiara BTICINO: Matix * GEWISS: Chorus * VIMAR: Arkè, Idea |

Note:

* remove the teeth from the frame for proper compatibility (see figure below).



PLASTIC ELEMENTS



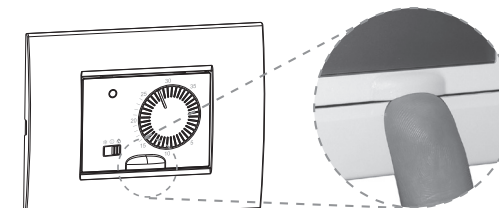
For correct compatibility with the BTicino Matix series, use the BM plastic elements in combination with the support B.

For correct compatibility with the Vimar Idea series, use the VI plastic elements in combination with support B.

Depleted batteries signal (only for CT 10B)

When the battery is almost depleted, the yellow LED turns on for half a second every 10 seconds. In this condition it is necessary to replace the batteries as soon as possible.

The extraction of the device, to access the battery compartment, takes place by pulling on the convexity of the front panel.



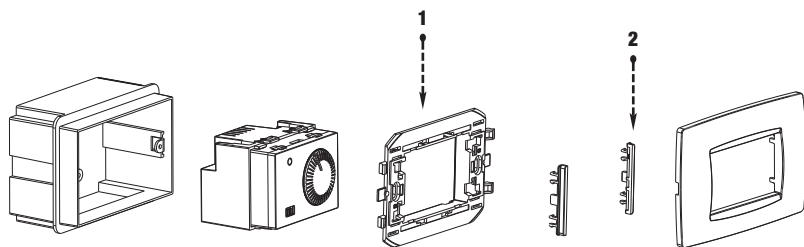
Use only alkaline batteries

⚠ 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.



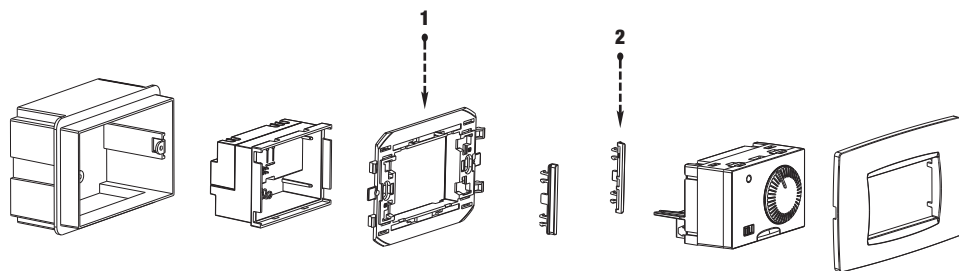
CT 10A mounting



Note:

1. Choose the support that makes the device compatible with the domestic range on the compatibility table (see BOX "Supports installation")
2. Insert, if necessary, plastic elements (see BOX "Supports installation")

CT 10B mounting



Note:

1. Choose the support that makes the device compatible with the domestic range on the compatibility table (see BOX "Supports installation")
2. Insert, if necessary, plastic elements (see BOX "Supports installation")

Operation

Operating mode setting

The choice of the operating logic occurs via selector switch placed on the front of the device. It's possible to choose among 3 modes:

- ☑ cooling mode. Place the selector switch in position ❄ if the device is connected to a cooling system. The output relay is activated when the environment temperature is higher than the set one.
- ☑ off mode. Place the selector switch in position ⓪ in case the turned off for long periods

Note: In this condition, the thermostat activates the heating system if the temperature falls below 2 °C (antifreeze temperature).

- ☑ heating mode. Place the selector switch in position 🔥 if the device is connected to a heating system. The output relay is activated when the environment temperature is lower than the set one.

Error probe signal

The thermostat signals the error probe condition by blinking the LED 2 times per second.

In this case the regulation is inhibited and the relay contact is kept open. Contact Technical Assistance.

Setpoint modification

To change the setpoint, turn the knob. The range of settable values is from 5°C to 35°C.

On CT 10A the activation of the relay is signaled by the red LED.

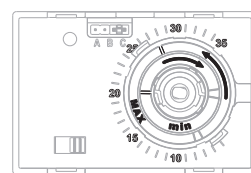
On CT 10B the activation of the relay is not reported to limit battery consumption.

The device has two ring nuts to limit mechanically the range if the thermostat is installed in public places or in hotel rooms.

To limit the range, proceed as follows:

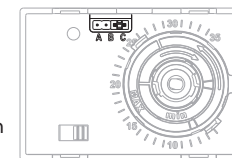
- Set the knob in an intermediate value of the desired range (for example if you want to limit the range between 15°C and 25°C turn the knob until the indicator is in position 20°C).
- Remove the knob.
- Under the knob there are two ring nuts marked by the word "min" and "MAX", respectively for the lower and upper limit.
- Turn the "min" ring nut clockwise and "MAX" anticlockwise until the desired position (in this case 15 for min and 25 for MAX).
- Replace the knob, making sure that the indicator of the setpoint on the knob is in the same position when the knob has been removed (in this case 20°C).

To remove the limitation to the setpoint and reset the range 5÷35°C turn the two ring nuts up to bring the locks of limitation in a position outside the range 5÷35°C.



Regulation type setting

The device has a jumper with whom to choose the type of regulation, between on/off or proportional. To access the jumper you need to remove the cover after removing power supply to the device. The position of the jumper determines the type of regulation as follows:



- jumper in position A: ON/OFF regulation with fixed differential at 0.3°C (default setting)
- jumper in position B: proportional regulation with band 0.8 °C (-0.3 +0.5) and 8 minutes time base
- jumper in position C: proportional regulation with band 1.5 °C (-0.7 +0.8) and 15 minutes time base

Example of proportional operation with band 0.8°C and 8 minutes base

Tmis = Tset + 0,5 °C = relay OFF
 Tmis = Tset + 0,4 °C = 1 minute ON ; 7 minutes OFF
 Tmis = Tset + 0,3 °C = 2 minutes ON ; 6 minutes OFF
 Tmis = Tset + 0,2 °C = 3 minutes ON ; 5 minutes OFF
 Tmis = Tset + 0,1 °C = 4 minutes ON ; 4 minutes OFF
 Tmis = Tset = 5 minutes ON ; 3 minutes OFF
 Tmis = Tset - 0,1 °C = 6 minutes ON ; 2 minutes OFF
 Tmis = Tset - 0,2 °C = 7 minutes ON ; 1 minute OFF
 Tmis = Tset - 0,3 °C = relay ON

Example of proportional operation with band 1.5°C and 15 minutes base

Tmis = Tset + 0,8 °C = relay OFF
 Tmis = Tset + 0,7 °C = 1 minute ON ; 14 minutes OFF
 Tmis = Tset + 0,6 °C = 2 minutes ON ; 13 minutes OFF
 Tmis = Tset + 0,5 °C = 3 minutes ON ; 12 minutes OFF
 Tmis = Tset + 0,4 °C = 4 minutes ON ; 11 minutes OFF
 Tmis = Tset + 0,3 °C = 5 minutes ON ; 10 minutes OFF
 Tmis = Tset + 0,2 °C = 6 minutes ON ; 9 minutes OFF
 Tmis = Tset + 0,1 °C = 7 minutes ON ; 8 minutes OFF
 Tmis = Tset = 8 minutes ON ; 7 minutes OFF
 Tmis = Tset - 0,1 °C = 9 minutes ON ; 6 minutes OFF
 Tmis = Tset - 0,2 °C = 10 minutes ON ; 5 minutes OFF
 Tmis = Tset - 0,3 °C = 11 minutes ON ; 4 minutes OFF
 Tmis = Tset - 0,4 °C = 12 minutes ON ; 3 minutes OFF
 Tmis = Tset - 0,5 °C = 13 minutes ON ; 2 minutes OFF
 Tmis = Tset - 0,6 °C = 14 minutes ON ; 1 minute OFF
 Tmis = Tset - 0,7 °C = relay ON

Note: The proportional regulation is available only for the heating operation.

Note: The position of the jumper is read only when the device is on. Change the position of the jumper when the device is supplied, as well as expose you to possible shock, so it is useless.

Night reduction (only for CT 10B)

The CT 10B has an input to whom to connect an external contact. With closed contact, the setpoint is reduced by 3°C than is set with the knob (in heating mode only).

