

cover plate not included



CH121K

ENG

FLUSH MOUNTING THERMOSTAT, BATTERY OPERATED (KIT)

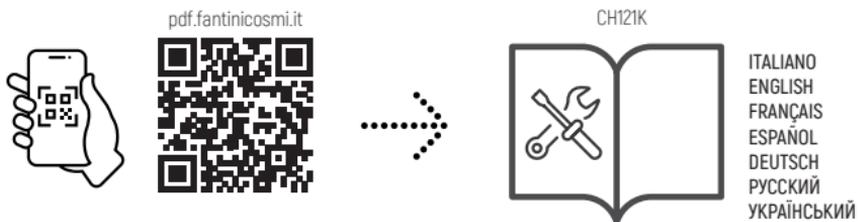
INSTALLATION AND USER MANUAL

FLUSH MOUNTING THERMOSTAT

Dear customer, thank you for purchasing the Fantini Cosmi flush mounting thermostat, model CH121K.

This manual contains all the information required for a correct installation and configuration.

You can also download this manual in digital format and in several languages by framing the QR code below and entering the product code.



Warnings



Carefully read the installation instructions, safety warnings, operating modes and maintenance instructions in this booklet, which should be kept for further reference.

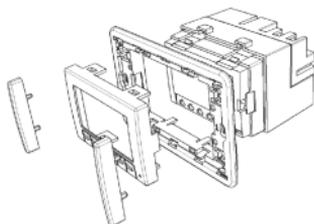
- After removing the packaging, check the integrity of the appliance; if in doubt, do not use it.
- Installation of the appliance should only be carried out by qualified technicians in compliance with current standards.
- The use of any electrical appliance involves observing certain basic rules. In particular:
 - DO NOT touch the device with wet hands or wet feet or bare feet.
 - DO NOT expose the device to the weather (rain, sun, etc.).
 - Before carrying out any maintenance or cleaning work, switch off the power supply.
 - DO NOT power the appliance with the cover open.

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Contents of package

- 1 thermostat
- 3 frames
- 3 coloured covers, type A
- 3 coloured covers, type B
- 3 pairs of adapters
- 1 pair of special adapters for Bticino Matix
- 2 screws
- 1 user manual



1 - TECHNICAL FEATURES

Power supply	2 AAA 1.5V batteries
Battery duration	approximately 1 year *
Contact range	5(3)A 250V- voltage-free switching
Maximum room temperature	T45 °C
Temperature adjustment scale	2 ÷ 40 °C, increase 0.1°C
Measurement scale/room T display	-40 ÷ 50 °C
Type of action	1B micro disconnection
Degree of protection	IP20
Pollution degree	2
Pulse voltage	4000V
Electric insulation	 double insulation
Software	Class A
Thermal gradient of reference	4K/h
Assembly	recessed in 3-module box type 503, with 2 screws
Dimensions	68 x 52.2 x 58 mm
Compliant with standards	EN 60730-1 and second parts
ErP classification	ErP Class IV; 2% [Reg. EU 811/2013 - 813/2013]

Product not manufactured in Italy.

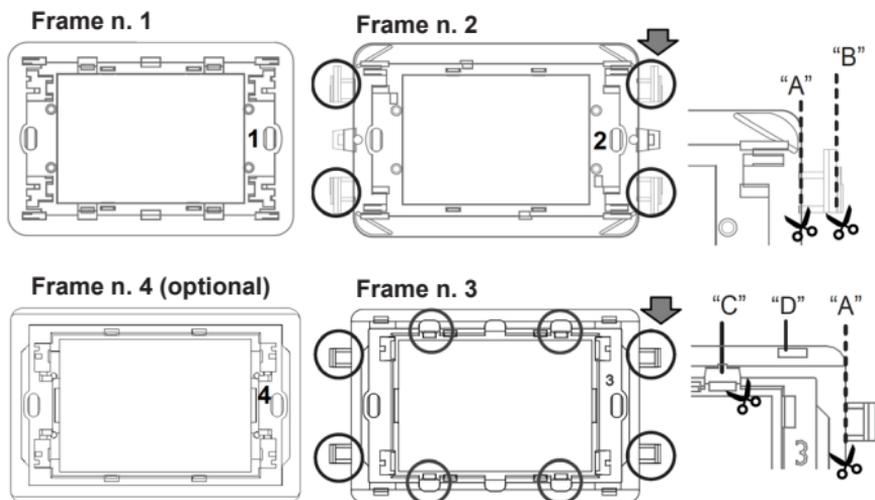
* N.B. the life of the batteries is greatly affected by the type of use and the settings made by the user, especially the set back lighting switch-on time.

2 - INSTALLATION

The CH121K thermostat must be installed in a 3-module recessed box, in the middle of the apartment, preferably 1.5 m off the ground. The required components, all included in the package, are used based on the plates available, according to the following table. **Dedicated adapter kits are available for the Bticino Matix GO (silver), Bticino Living Now and Vimar Linea configurations (see technical sheet on the website www.fantinosmi.it).**

COMPATIBLE PLATES	COVER TYPE	TELAIO TYPE	TABS TO DETACH	ADAPTERS KIT
Bticino Living International and Transizione Piana	B	1	NO	NO
Bticino Living Light Air	B	3	NO	YES position "A+C+D"
Bticino Light, Light tech	B	1	NO	NO
Bticino Axolute	A	1	NO	NO
Bticino Matix	B	2	YES (dedicated)	YES position "A"
Bticino Matix GO	A	3	NO	"A+C"
Bticino Axolute Air	A	4	NO	NO
Vimar Idea e Rondò	B	2	SI	YES position "B"
Vimar Plana e Eikon	B	1	NO	NO
Vimar Eikon Evo	A	3	NO	YES position "A+D"
Vimar Arké	A	3	NO	NO
Vimar Arké Fit	A	1	NO	NO
Gewiss Chorus One, Lux, Art, Geo, Ego	B	2	NO	YES position "A"
Ave sistema 45: Zama, Banquise, Yes, Ral	B	2	YES	NO
Ave sistema 44: Zama, Personal, Tecnopolimero	A	1	NO	NO
Legrand Cross, Vela quadra, Vela tonda	B	2	NO	YES position "A"
ABB Elos	B	4	YES	NO
ABB Mylos	B	4	NO	NO

* N.B. COVER A available colours: white, sand and black;
COVER B available colours: white, sand and black, for Bticino Matix white only.



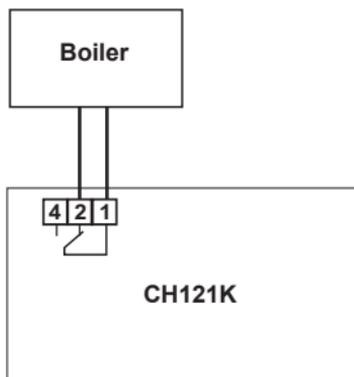
PERFORM THE FOLLOWING OPERATIONS:

1. act on the master switch on the electric panel to cut power to the electrical system;
2. when required, detach the tabs according to the type of plate;
3. fasten the thermostat to the suitable frame;
4. mount the cover on the body of the thermostat;
5. connect the two wires of the boiler to terminals 1-2 of CH121K;
6. screw the frame onto the box using the provided screws;
7. mount the plate;
8. switch the electric system back on.

3 - ELECTRICAL CONNECTIONS



Installation and maintenance operations must be carried out with the system's electrical power switched off and by qualified personnel, in compliance with the regulations in force.



PLEASE NOTE: when CH121K is disconnected, the boiler contact remains in its current position.

4 - INSERTION AND REPLACEMENT OF BATTERIES

Insert two AAA 1.5 V alkaline long lasting batteries, of a good brand, paying attention to the marked polarities.

N.B. the life of the batteries is greatly affected by the type of use and the settings made by the user, especially the brightness of the display.

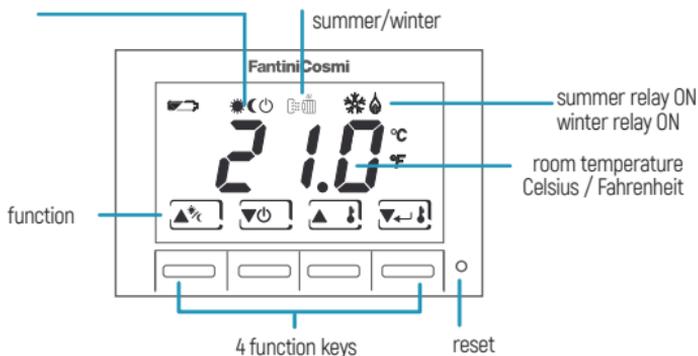
When the batteries are low, the symbol of the discharged battery flashes on the display: . CH121K keeps working regularly, but the display does not light up. If the batteries are completely discharged, the thermostat quits working (switching off the system) and the display reads **"PRESS HERE TO REPLACE BATTERIES"**, until the batteries are replaced.

To replace the batteries, remove CH121K from its housing, moderately pressing inwards and at the same time on both sides of the cover. When you disconnect the thermostat, the text **"Disconnected"** is displayed for one minute as well as the symbol of the battery flashing (the battery symbol also flashes, but differently, when the batteries are charged, signalling that the body of the thermostat is disconnected from the base). The text **"Connected"** disappears when you press a key. All parameters remain stored while the batteries are being replaced.

5 - DISPLAY AND KEYS DESCRIPTION

The thermostat is equipped with 4 keys, the function of which varies depending on the situation. It is described by the symbol which appears on the display next to the key.

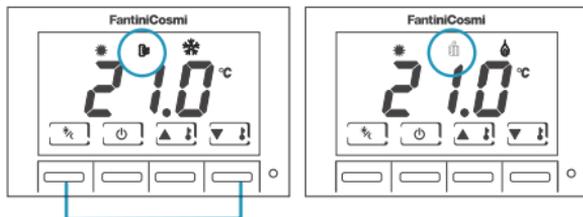
COMFORT / TMAX
ECONOMY / TMIN
OFF ANTIFREEZE



N.B.: the first press of a key only turns on the display light to allow for better viewing.

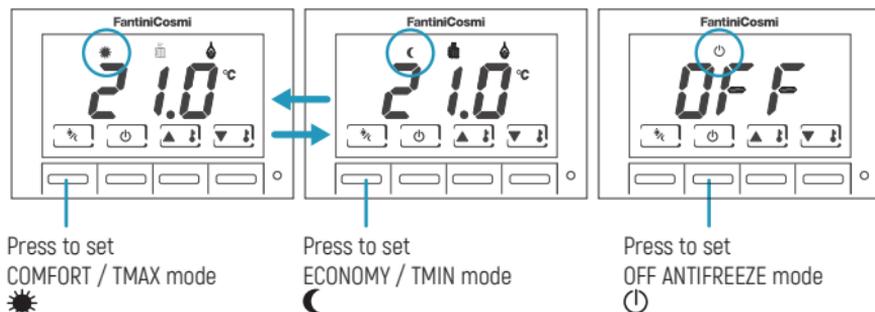
6 - OPERATION

SUMMER/WINTER SELECTION

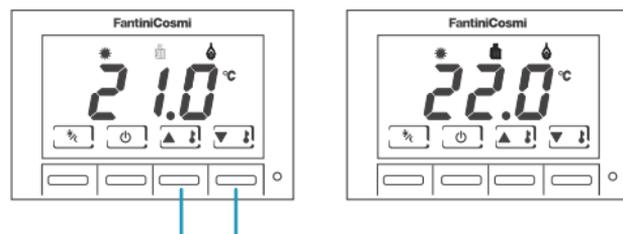


Press both keys simultaneously to select SUMMER (cooling) ☀️ or WINTER (heating) 🔥 mode.

OPERATING MODE SELECTION



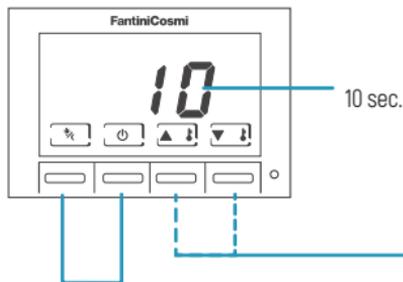
CUSTOMISE THE TEMPERATURE



When you have set the operating mode ☀ ☾ ⏻, press the two keys (increase ▲ or decrease ▼) to set the temperature:
 ECONOMY / TMIN $2 \div 40$ °C
 COMFORT / TMAX $2 \div 40$ °C
 OFF ANTIFREEZE $0 \div 7$ °C

ANTIFREEZE temperature cannot be set in summer mode.

CHOICE OF BACK LIGHTING DURATION



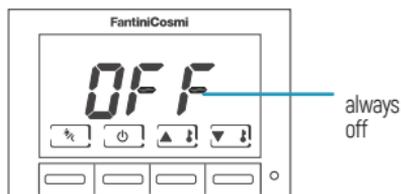
Press together, and keep pressed, to change back lighting duration.

Increase\decrease back lighting duration pressing ▲ or ▼ and while keeping ECONOMY/COMFORT and ON/OFF keys pressed.

You may choose the time during which back lighting remains on:

OFF → always off

1 sec. ...10 sec.



7 - THERMOSTAT CONFIGURATION



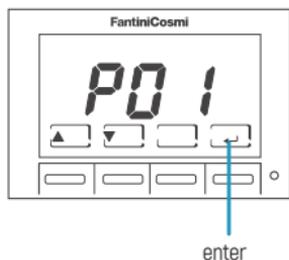
ATTENTION: only qualified personnel may configure the device.

Configuring the thermostat allows you to customise the device's operating parameters. Perform the following steps to access the configuration program:



- 1 Using a sharp object, press the reset button while holding down the "COMFORT/ECONOMY" button at the same time.

- 2 When the display reads P01, release the "COMFORT/ECONOMY" button.



The display represents the configuration parameters by an index: P01, P02....

Press ▲ or ▼ to scroll the parameter indexes.

Press ← to edit a parameter. Use ▲ and ▼ to change the value of the parameter. Press ← again to go back to the parameter index.

To exit parameter configuration, press ▲ or ▼ until the display reads "END". Press ←.

Index	Parameter	Default	Values
P01	display mode	1	1 = view room temp 2 = view set point
P02	correction of displayed temperature value	0.0°C	+/- 4°C (step 0.1°C)
P03	winter lower limit set point temperature	2.0°C	2.0°C.....40.0°C (step 1.0°C)
P04	winter upper limit set point temperature	40.0°C	2.0°C.....40.0°C (step 1.0°C)
P05	summer lower limit set point temperature	2.0°C	2.0°C.....40.0°C (step 1.0°C)
P06	summer upper limit set point temperature	40.0°C	2.0°C.....40.0°C (step 1.0°C)
P07	differential adjustment	0.3°C	±0.3°C.....±2.0°C * (step 0.1°C)
P08	temperature scale	CEL	CEL = Celsius FAH = Fahrenheit
END	exit parameter configuration and store values		

* ± 0.3°C value suited for plants with slow thermal inertia,
± 2°C value suited for very reactive plants.

8 - MAINTENANCE

Use only a soft and dry cloth to clean the device. Do not use water or other liquid substances.

9 - DISPOSAL



Symbol of the crossed-out wheeled bin indicates that the product must be collected and disposed of separately from household waste. Batteries and the integrated accumulators may be disposed of together with the product. They will be separated at the recycling facilities. A black bar indicates that the product was placed on the market after August 13th, 2005. Participating in the separate collection of products and batteries contributes to the correct disposal of these materials and therefore avoids possible negative consequences for the environment and human health. For more detailed information on the collection

and recycling programs available in your country, contact the local authorities or the sales point where you purchased the product.

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