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## Fantini Cosmi CH112

# Fantini Cosmi CH112 Battery-Powered Room Thermostat User Manual

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, setup, operation, and maintenance of your Fantini Cosmi CH112 electronic microprocessor room thermostat. Designed for both heating and air conditioning systems, the CH112 offers precise temperature control with three distinct temperature levels.

## 2. SAFETY INFORMATION

- **Electrical Safety:** Installation should only be performed by qualified personnel. Disconnect power to the heating/cooling system before any wiring.
- **Battery Safety:** Use only specified battery types. Do not mix old and new batteries. Dispose of used batteries responsibly.
- **Placement:** Install the thermostat away from direct sunlight, drafts, and heat sources (e.g., radiators, televisions) to ensure accurate temperature readings.
- **Cleaning:** Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.

## 3. PACKAGE CONTENTS

Verify that your package contains the following items:

- Fantini Cosmi CH112 Room Thermostat
- Instruction Manual

*Note: Batteries are not included and must be purchased separately.*

## 4. PRODUCT OVERVIEW

The Fantini Cosmi CH112 is an electronic microprocessor thermostat featuring a clear digital display and intuitive controls. It allows users to manage room temperature effectively with three distinct settings: Comfort, Economy, and Antifreeze.



**Image 4.1:** Front view of the Fantini Cosmi CH112 thermostat, showing the digital display and control buttons. The display shows the current temperature and various mode indicators.

#### 4.1. Control Buttons

- **Up/Down Arrows (▲ / ▼):** Used to increase or decrease the desired temperature setting.
- **OFF Button:** Turns the thermostat off.
- **Comfort/Economy Button (Sun/Moon Symbol):** Toggles between Comfort (day) and Economy (night) temperature modes.

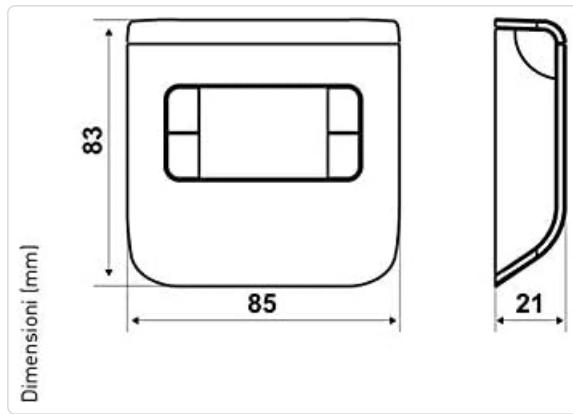
#### 4.2. Display Indicators

- **Temperature Display:** Shows the current room temperature or the set temperature.
- **Sun Symbol:** Indicates Comfort mode (day temperature).
- **Moon Symbol:** Indicates Economy mode (night temperature).
- **Flame Symbol:** Indicates that the heating system is active.
- **Battery Symbol:** Indicates battery level. A flashing or low symbol means batteries need replacement.
- **Antifreeze Symbol:** Indicates that the antifreeze protection is active.

### 5. INSTALLATION

The CH112 thermostat is designed for wall mounting. Follow these steps for proper installation:

1. **Choose Location:** Select an indoor location away from direct heat sources, drafts, and direct sunlight. The ideal height is approximately 1.5 meters (5 feet) from the floor.
2. **Mounting:** Secure the thermostat base to the wall using appropriate screws. Ensure it is level.
3. **Wiring:** Connect the two control wires from your heating/cooling system to the designated terminals on the thermostat. Refer to the wiring diagram provided in the separate installation guide for specific connections. This process typically involves connecting two low-voltage wires.
4. **Battery Insertion:** Open the battery compartment, typically located on the top or back of the unit. Insert two AAA batteries, ensuring correct polarity.
5. **Attach Cover:** Securely attach the front cover of the thermostat to the mounted base.



**Image 5.1:** Technical drawing showing the dimensions of the Fantini Cosmi CH112 thermostat in millimeters (85mm width, 83mm height, 21mm depth).

## 6. SETUP

After installation and battery insertion, perform the initial setup:

- Power On:** Press the power button (if available) or ensure batteries are correctly inserted. The display will illuminate.
- Temperature Unit Selection:** The thermostat typically defaults to Celsius. If Fahrenheit is desired, consult the detailed installation guide for specific button combinations to change this setting.
- Temperature Calibration (P02):** If the displayed temperature does not match a known accurate thermometer, you can calibrate it. Access the calibration menu (often labeled P02 in advanced settings, refer to the full manual for access method) and adjust the offset. Confirm the change to save.

## 7. OPERATING INSTRUCTIONS

The CH112 thermostat offers simple operation for managing your indoor climate.

### 7.1. Setting Temperature Levels

The thermostat allows you to set three main temperature levels: Comfort, Economy, and Antifreeze.

- Comfort Temperature:** This is your desired daytime or active period temperature. Use the Up/Down arrow buttons to set the Comfort temperature. The display will show the set temperature, and the sun symbol will be active.
- Economy Temperature:** This is your desired nighttime or inactive period temperature, typically lower than Comfort to save energy. Press the Comfort/Economy button (sun/moon symbol) to switch to Economy mode. Use the Up/Down arrow buttons to set the Economy temperature. The moon symbol will be active.
- Antifreeze Temperature:** This is a minimum temperature setting (typically 5°C) to prevent pipes from freezing when the system is off or in a very low-temperature setting. This feature is usually automatic and activates when the ambient temperature drops below the preset antifreeze threshold.

### 7.2. Switching Modes

- Comfort/Economy Toggle:** Press the Comfort/Economy button (sun/moon symbol) to switch between your preset Comfort and Economy temperatures.
- Turning Off:** Press the OFF button to turn off the thermostat. The system will cease to regulate temperature, but the antifreeze protection may remain active depending on the model.

The thermostat regulates temperature with a precision of 0.1°C.

## 8. MAINTENANCE

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### 8.1. Battery Replacement

When the battery symbol on the display indicates low power, replace the batteries promptly to ensure continuous operation. The CH112 uses two AAA batteries.

1. Open the battery compartment, usually located on the top or back of the thermostat.
2. Remove the old batteries.
3. Insert two new AAA batteries, observing correct polarity (+/-).
4. Close the battery compartment securely.

### 8.2. Cleaning

To clean the thermostat, gently wipe the surface with a soft, dry cloth. Do not use liquid cleaners, sprays, or abrasive materials, as these can damage the unit or interfere with its sensors.

## 9. TROUBLESHOOTING

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- **Display is blank:** Check if batteries are correctly inserted and have sufficient charge. Replace batteries if necessary.
- **Thermostat not controlling heating/cooling:** Ensure the thermostat is powered on and in the correct mode (Comfort or Economy). Verify wiring connections.
- **Inaccurate temperature reading:** Ensure the thermostat is not exposed to direct sunlight, drafts, or heat sources. If the discrepancy persists, perform temperature calibration (refer to Section 6.3).
- **System not turning off:** Check the OFF button functionality. Ensure no other settings are overriding the command.

If issues persist after following these steps, consult a qualified technician.

## 10. SPECIFICATIONS

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Feature	Specification
Manufacturer	Fantini Cosmi S.p.A.
Item Code	CH112
Product Dimensions	8.2 x 2.1 x 8.3 cm
Item Weight	80 grams
Model Number	CH112
Color	Black
Power Type	Battery-powered
Voltage	250 Volt (switching capacity)
Number of Items	1
Measurement System	Metric

Display Style	Segment display
Electrical Socket Type	Wall mounting
Special Functions	Antifreeze protection mechanism
Usage	Indoor
Included Components	Thermostat; instructions
Batteries Required	Yes (AAA)

## 11. WARRANTY AND SUPPORT

Fantini Cosmi products are manufactured to high-quality standards. This product typically comes with a standard 2-year warranty from the date of purchase, covering defects in materials and workmanship. Please retain your proof of purchase for warranty claims.

For technical support, warranty inquiries, or service, please contact Fantini Cosmi customer service through their official website or the contact information provided with your purchase documentation.

### Related Documents - CH112

 <p><b>Serie C900</b></p>	<p><a href="#">Fantini Cosmi C900 Smart Wi-Fi Programmable Thermostat - Installation and User Manual</a></p> <p>Comprehensive installation and user manual for the Fantini Cosmi C900 series smart Wi-Fi programmable thermostat. Learn about setup, operation, features, and troubleshooting.</p>
 <p><b>INTELLICOMFORT CH180 TOUCHSCREEN PROGRAMMABLE THERMOSTAT WITH BATTERIES</b></p>	<p><a href="#">Fantini Cosmi Intellicomfort CH180 Programmable Thermostat - Features &amp; Installation</a></p> <p>Comprehensive guide to the Fantini Cosmi Intellicomfort CH180 touchscreen programmable thermostat. Details include technical specifications, installation instructions, electrical features, general operating modes (Manual, Auto, Holiday, Jolly, Off), and homologation standards.</p>
 <p><b>L03B</b> ON/OFF &amp; PID Thermostat with 1 or 2 outputs with temperature alarm management</p>	<p><a href="#">Fantini Cosmi L03B.. PID Thermostat: Technical Specifications &amp; Operation</a></p> <p>Detailed technical data sheet for Fantini Cosmi L03B.. ON/OFF and PID thermostats. Features, specifications, electrical characteristics, installation, and operation modes for heating and cooling systems.</p>

 <p><b>CH121K - CH123K</b> Flush mounting thermostat (1kW), battery operated and 230V Technical data sheet</p> <p><b>MOUNTING KIT</b> Mounting kit for central heating and air conditioning machines</p> <p><b>ELECTRICAL FEATURES</b> Technical data sheet</p> <p><b>ECOCOMFORT 3</b> Ventilación con Recuperación de Calor</p> <p><b>C800WIFI</b> LED PROGRAMMABLE THERMOSTAT WITH SMART FUNCTIONS</p> <p><b>CECES</b> Smart Programmable Thermostat with remote control via Intelliclima+ app</p> <p><b>HOMELINK AND STANDARD</b> Technical data sheet</p> <p><b>CE IE</b> Technical data sheet</p>	<p><a href="#">Fantini Cosmi CH121K - CH123K Flush Mounting Thermostat: Features, Installation, and Specifications</a></p> <p>Detailed information on the Fantini Cosmi CH121K and CH123K flush mounting thermostats, covering features, technical specifications, installation guide, and compatible plates for heating and air-conditioning control.</p>
 <p><b>ECOCOMFORT 3</b> Ventilación con Recuperación de Calor</p> <p><b>ECOCOMFORT 3</b> Ventilación con Recuperación de Calor</p>	<p><a href="#">Manual de Instalación y Uso ECOCOMFORT 3 - Ventilación con Recuperación de Calor Fantini Cosmi</a></p> <p>Guía completa para la instalación y uso de la unidad de ventilación puntual ECOCOMFORT 3 de Fantini Cosmi. Aprenda a mejorar la calidad del aire y la eficiencia energética en su hogar.</p>
 <p><b>C800WIFI</b> LED PROGRAMMABLE THERMOSTAT WITH SMART FUNCTIONS</p> <ul style="list-style-type: none"> <li>• Sleek design with only 21.02 mm thickness</li> <li>• Just turn the heating and cooling on/off with the remote control</li> <li>• Control the heating and cooling via the Intelliclima+ app</li> <li>• Smart functions: AGC, geolocation, remote control, adaptive to environmental context</li> </ul> <p><b>CECES</b> Smart Programmable Thermostat with remote control via Intelliclima+ app</p> <p><b>HOMELINK AND STANDARD</b> Technical data sheet</p> <p><b>CE IE</b> Technical data sheet</p>	<p><a href="#">Fantini Cosmi C800WIFI Smart Programmable Thermostat - Features, Specs, and Operation</a></p> <p>Detailed information on the Fantini Cosmi C800WIFI LED programmable thermostat with smart functions. Covers installation, electrical features, general specifications, advanced functions like AGC and geolocation, operational modes, and remote control via the Intelliclima+ app.</p>