

## Fantini Cosmi C31

# Fantini Cosmi C31 Wall Thermostat User Manual

Model: C31

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Fantini Cosmi C31 Wall Thermostat. Please read this manual carefully before using the device to ensure correct operation and to prevent damage.

The Fantini Cosmi C31 is a 230V wall-mounted thermostat designed for precise temperature control. It features a 2-wire connection, is suitable for 503 box mounting, and includes a blue backlit display for clear visibility. Functions can be protected by a password.

## 2. SAFETY INFORMATION

- **Electrical Installation:** Installation must be performed by a qualified electrician in accordance with local electrical codes. Ensure power is disconnected before any wiring.
- **Voltage:** This device operates at 230V. Do not connect to other voltage sources.
- **Battery Safety:** Use only 3 x 1.5V AA alkaline batteries. Do not mix old and new batteries, or different types of batteries. Dispose of used batteries responsibly.
- **Environment:** Do not expose the thermostat to direct sunlight, extreme temperatures, high humidity, or corrosive environments.
- **Cleaning:** Clean the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.

## 3. PRODUCT OVERVIEW

The Fantini Cosmi C31 features a clear display and intuitive controls for managing your heating system.



**Figure 3.1:** Front view of the Fantini Cosmi C31 Wall Thermostat, showing the digital display with current temperature, time, and day, along with mode selection icons on the left.

### 3.1 Key Features

- 230V operation with 2-wire connection.
- Suitable for 503 box mounting.
- Password-protected functions for enhanced security.
- Blue backlit display for easy reading in various lighting conditions.
- Protective cover for adjustment keys.
- Low battery indicator (flashing display).
- Contact rating: 5 (3) A 250 Vca.
- Powered by 3 x 1.5V AA alkaline batteries (approx. 2-year lifespan).
- IP20 protection rating.

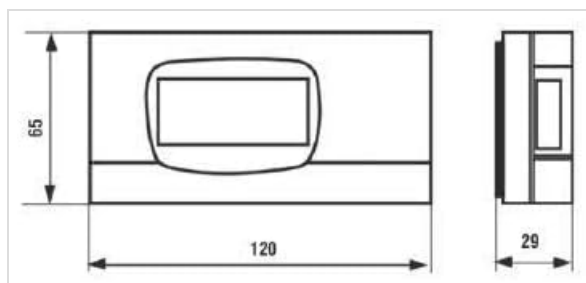


**Figure 3.2:** The Fantini Cosmi C31 Thermostat with its front cover open, revealing the adjustment buttons and sliders for programming and settings.

## 4. SETUP AND INSTALLATION

### 4.1 Mounting

The C31 thermostat is designed for wall mounting, typically in a standard 503 electrical box. Ensure the mounting location is away from direct heat sources, drafts, or direct sunlight to ensure accurate temperature readings.



**Figure 4.1:** Dimensional drawing of the Fantini Cosmi C31 Thermostat, showing its width of 120mm, height of 65mm, and depth of 29mm.

## 4.2 Wiring

The thermostat requires a 2-wire connection to your heating system. Refer to the wiring diagram provided with the product packaging for specific connection points. **Always disconnect power at the main circuit breaker before performing any wiring.**

1. Turn off the main power supply to your heating system.
2. Mount the thermostat base plate to the 503 electrical box.
3. Connect the two wires from your heating system to the designated terminals on the thermostat base.
4. Secure the thermostat unit onto the base plate.
5. Restore power to the heating system.

## 4.3 Battery Installation

The C31 is powered by 3 x 1.5V AA alkaline batteries. The battery compartment is typically located on the back of the unit or behind a removable front panel.

1. Carefully open the battery compartment.
2. Insert three new 1.5V AA alkaline batteries, ensuring correct polarity (+/-).
3. Close the battery compartment securely.
4. The display should illuminate, indicating successful battery installation.

# 5. OPERATING INSTRUCTIONS

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## 5.1 Setting Current Time and Day

To ensure accurate programming, set the current time and day:

1. Open the protective cover to access the adjustment keys.
2. Locate the time/day setting buttons (refer to Figure 3.2).
3. Press and hold the appropriate button to enter setting mode.
4. Use the adjustment buttons to set the current hour, minute, and day of the week.
5. Confirm settings by pressing the button again or waiting for the display to exit setting mode automatically.

## 5.2 Temperature Adjustment

You can manually adjust the desired temperature:

- In normal operating mode, use the temperature adjustment buttons (usually '+' and '-') to increase or decrease the set temperature.
- The display will show the new set temperature temporarily.

- The thermostat will then regulate the heating system to maintain this temperature.

### 5.3 Programming Operating Modes

The C31 allows for programmable time and temperature settings. Refer to the detailed programming section in the full product manual for advanced scheduling. Typically, you can set different temperature levels for various times of the day and days of the week (e.g., comfort, economy, anti-freeze).

### 5.4 Password Protection

To prevent unauthorized changes, the thermostat's functions can be locked with a password. Consult the full manual for instructions on how to set, change, and disable the password.

## 6. MAINTENANCE

### 6.1 Cleaning

To maintain the appearance and functionality of your thermostat:

- Wipe the exterior with a soft, dry cloth.
- Do not use liquid cleaners, sprays, or abrasive materials, as these can damage the display or internal components.

### 6.2 Battery Replacement

The thermostat's display will flash to indicate low battery power. Replace all three AA batteries promptly to ensure continuous operation and prevent data loss.

1. Open the battery compartment.
2. Remove the old batteries.
3. Insert three new 1.5V AA alkaline batteries, observing correct polarity.
4. Close the battery compartment.
5. Dispose of old batteries according to local regulations.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank or dim.	No power or low batteries.	Check main power supply. Replace batteries with new 1.5V AA alkaline batteries.
Heating system not responding.	Incorrect wiring, thermostat in OFF mode, or system fault.	Verify wiring connections. Ensure thermostat is in an active heating mode. Check heating system for faults.
Temperature reading seems inaccurate.	Thermostat location affected by drafts, direct sunlight, or heat sources.	Relocate thermostat if possible, or shield it from external influences. Allow time for the sensor to stabilize.
Buttons are unresponsive or difficult to press.	Protective cover obstruction or mechanical issue.	Ensure the protective cover is fully open. If issues persist, contact support.

## 8. SPECIFICATIONS

- **Brand:** Fantini Cosmi

- **Model:** C31
- **Color:** White
- **Dimensions (L x W x H):** 12 x 2.9 x 6.5 cm (4.72 x 1.14 x 2.56 inches)
- **Weight:** 130 g (0.29 lbs)
- **Voltage:** 250 Volts (Operating at 230V)
- **Material:** Plastic, Glass Plastic, Polycarbonate
- **Power Source:** Battery Powered (3 x 1.5V AA alkaline batteries)
- **Battery Life:** Approximately 2 years
- **Contact Rating:** 5 (3) A 250 Vca
- **Protection Rating:** IP20
- **Display:** Backlit (Blue)
- **Specific Uses:** Indoor
- **Included Components:** Chronothermostat, Instructions

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or visit the official Fantini Cosmi website. Keep your purchase receipt as proof of purchase.  
**Manufacturer:** Fantini Cosmi S.p.A.

### Related Documents - C31

	<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><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><a href="#">Fantini Cosmi CH180-230V Programmable Thermostat - Quick Guide</a></p> <p>This document provides a quick guide for the Fantini Cosmi CH180-230V programmable thermostat, covering installation, electrical connection, display features, settings, technical specifications, and disposal information.</p>



**C800WIFI**  
 D THERMOSTAT WITH  
 WIFI CONNECTION



User manual for the Fantini Cosmi C800WIFI programmable LED thermostat. Learn about installation, setup, app control, programming, technical specifications, and warranty for smart home climate management.

**CH121K - CH123K**  
Flush mounting thermostat (kit), battery operated and 230V



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.



**EN** SMART W-FI PROGRAMMABLE THERMOSTAT, BATTERY-POWERED  
INSTALLATION AND USER MANUAL

Comprehensive guide for installing, configuring, and using the Fantini Cosmi C900 Smart Wi-Fi Programmable Thermostat. Learn about features, app integration, and troubleshooting.