

## EMOS P5611OT

# EMOS OpenTherm Wireless Digital Programmable Room Thermostat P5611OT User Manual

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your EMOS OpenTherm Wireless Digital Programmable Room Thermostat, model P5611OT. This advanced thermostat system is designed to efficiently control heating or air conditioning systems in various environments, including homes, offices, and other residential or commercial spaces.

The P5611OT system comprises two main components: a portable **Control Unit (Transmitter)** and a fixed **Switching Unit (Receiver)**. These units communicate wirelessly via an 868 MHz radio signal, allowing flexible placement of the control unit while the receiver manages the connection to your heating or cooling appliance.

## 2. PRODUCT COMPONENTS

Your EMOS P5611OT thermostat package includes the following:

- **Control Unit (Transmitter):** The portable unit with a display and control buttons for setting temperature and programming.
- **Switching Unit (Receiver):** The fixed unit that connects to your heating or air conditioning system and receives commands from the control unit.
- 2 x AA Mignon Batteries (for Control Unit)
- User Manual



Image 2.1: The EMOS P5611OT system, showing both the portable control unit with its display and buttons, and the compact switching unit.

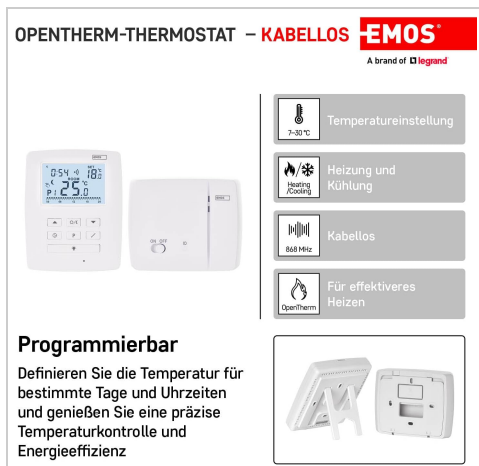


Image 2.2: Close-up of the EMOS P5611OT control unit, highlighting its clear digital display and user interface buttons.

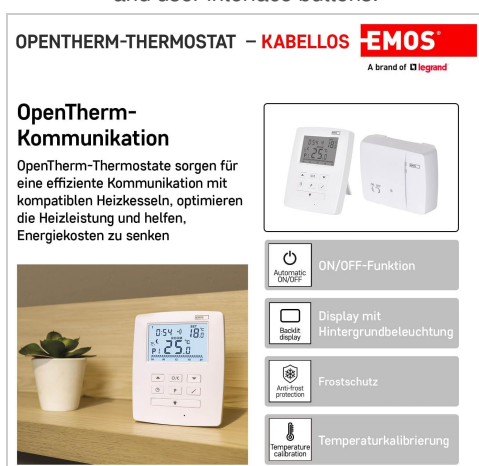


Image 2.3: The EMOS P5611OT switching unit, which connects directly to the heating or cooling system.

### 3. KEY FEATURES

- **Wireless Communication:** 868 MHz radio signal for flexible placement of the control unit, with a range of up to 100m in open areas.
- **OpenTherm (OT) Protocol Support:** Ensures efficient communication with compatible heating boilers, optimizing heating performance and energy savings.
- **Programmable:** Offers 9 preset programs (6 fixed, 3 customizable) for precise temperature control throughout the day and week.
- **Wide Temperature Range:** Adjustable temperature settings from 7 °C to 30 °C.
- **Heating and Cooling Modes:** Compatible with both heating and air conditioning systems.
- **Clear Backlit Display:** Easy-to-read display showing actual and set temperatures (0 °C to 40 °C), time, and program status.
- **Frost Protection:** Automatically activates to prevent freezing when temperatures drop too low.
- **Adjustable Hysteresis:** Customizable temperature differential (0.1 °C, 0.2 °C, 0.5 °C, or 1.0 °C) for fine-tuning temperature control.
- **ON/OFF Function:** Standard switching relay for basic control.

## RAUMTHERMOSTAT

EMOS bringt unvergleichliche elektrotechnische Expertise, um jeden Tag zuverlässige und langlebige Lösungen zu bieten.



**EMOS®**

A brand of **legrand**

Image 3.1: Visual summary of key features including temperature setting range, heating/cooling modes, wireless communication, and OpenTherm support.

## ENERGIEEFFIZIENZ UND EINSPARUNGEN

Die Raumthermostate von EMOS bieten eine präzise Temperaturregelung, verbessern die Energieeffizienz und senken die Heizkosten. Durch fortschrittliche Funktionen und ein benutzerfreundliches Design erzielen sie maximalen Komfort und signifikante Einsparungen

### Batteriebetriebene Thermostate

Dank Batteriebetrieb bleiben all Ihre Einstellungen auch bei Stromausfällen erhalten

### Heizung & Kühlung

Effiziente Steuerung von Heiz- und Kühlsystemen

### Temperaturregelung

Präzise Steuerung zur Einstellung und Beibehaltung der Wunschtemperatur



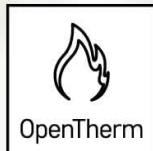
Image 3.2: Details on OpenTherm communication benefits, ON/OFF function, backlit display, frost protection, and temperature calibration.

## 4. SETUP

### 4.1. Installation of the Switching Unit (Receiver)

The switching unit must be installed by a qualified electrician. Ensure the main power supply to the heating/cooling system is turned off before installation.

1. Mount the switching unit in a suitable location near your heating or air conditioning appliance, away from direct heat sources or drafts.
2. Connect the power supply (230 V AC) to the appropriate terminals on the switching unit.
3. Connect the control wires from your heating/cooling system to the switching relay terminals (e.g., NO, COM, L) or OpenTherm terminals (OT1, OT2) as required by your appliance. Refer to your appliance's manual for specific wiring diagrams.

**EMOS®**A brand of **legrand**

## AUSFÜHRUNGEN FÜR OPENTHERM RAUMTHERMOSTATE:

### KABELGEBUNDEN & KABELLOS

Image 4.1: Close-up view of the wiring terminals on the EMOS P5611OT switching unit, showing connections for OpenTherm (OT) and standard relay (NO, COM, L).

#### 4.2. Control Unit (Transmitter) Battery Installation

1. Open the battery compartment on the back of the control unit.
2. Insert the 2 x AA Mignon batteries, ensuring correct polarity (+/-).
3. Close the battery compartment. The display should illuminate.





EMOS, eine Marke von Legrand, bietet hochwertige Elektroprodukte zu erschwinglichen Preisen für den privaten und gewerblichen Gebrauch. Jedes unserer Produkte wird in unserem Labor sorgfältig auf Qualität und Leistung geprüft.

**Making Life Easy**

Image 4.2: Rear view of the EMOS P5611OT control unit, showing the integrated stand and battery compartment.

#### 4.3. Pairing the Units

The control unit and switching unit are typically pre-paired at the factory. If communication issues occur or if you are setting up new units, follow these general pairing steps:

1. Ensure both units are powered on.
2. On the switching unit, locate and press the 'ID' button (refer to Image 2.3). The indicator light may flash.
3. On the control unit, access the pairing menu (refer to the full manual for specific button sequences, usually involving holding a 'P' or 'Mode' button).
4. Confirm pairing on the control unit. A successful pairing will usually be indicated by a steady light on the switching unit and a confirmation message on the control unit's display.

### 5. OPERATING INSTRUCTIONS

#### 5.1. Display Overview

The control unit's backlit display provides essential information:

- **Current Room Temperature:** Displays the actual temperature detected by the control unit.

- **Set Temperature:** Shows the desired temperature you have programmed.
- **Time and Day:** Current time and day of the week.
- **Program Indicator:** Shows which program (P1-P9) is currently active.
- **Operating Mode:** Indicates heating, cooling, or OFF.
- **Battery Indicator:** Alerts when batteries are low.



Image 5.1: The EMOS P5611OT control unit positioned on its integrated stand, showcasing the display and button layout.

## 5.2. Basic Temperature Adjustment

To manually adjust the desired temperature:

1. Press the **Up (▲)** or **Down (▼)** arrow buttons to increase or decrease the set temperature.
2. The new setting will be temporarily active until the next programmed event or until manually overridden.



Image 5.2: Close-up of the control buttons on the EMOS P5611OT, including navigation arrows, program (P), and mode (O/C) buttons.

### 5.3. Programming Modes

The thermostat offers 9 programs for automated temperature control:

- **6 Fixed Programs:** Pre-set schedules for common daily routines.
- **3 Customizable Programs:** Allows users to define their own temperature schedules for specific times and days.

To access and modify programs, press the **P** button and follow the on-screen prompts. Refer to the detailed manual for specific steps on setting custom programs.

## VIELSEITIGE RAUMTHERMOSTATE FÜR JEDEN BEDARF

Die Raumthermostate von EMOS ermöglichen eine flexible Regulierung des Innenklimas. Wahlweise mit manueller Steuerung, programmierbaren Einstellungen oder fortschrittlicher OpenTherm-Technologie



### MANUELLE STEUERUNG

Einfache und unkomplizierte Temperatureinstellungen für sofortigen Komfort



### PROGRAMMIERBARE STEUERUNG

Erstellen Sie Heizpläne für optimalen Komfort und Energieeinsparungen



### OPENTHERM-STEUERUNG

Präzise Kommunikation für optimierte Kesselleistung und Energieeffizienz

Image 5.3: Illustration of the programmable functionality, emphasizing the ability to define temperatures for specific days and times for precise control and energy efficiency.

## 5.4. ON/OFF Function

The thermostat includes a basic ON/OFF function. Press the **O/C** button to cycle through operating modes (e.g., Heating, Cooling, OFF). In OFF mode, the system will not actively heat or cool, but frost protection may remain active.

## 5.5. Frost Protection

When activated, frost protection ensures the temperature does not drop below a pre-set minimum (typically around 5-7°C) to prevent pipes from freezing. This feature is usually active even when the thermostat is in OFF mode.

## 5.6. Hysteresis Adjustment

Hysteresis (also known as differential) is the temperature range around the set point within which the heating/cooling system will not activate. This prevents rapid cycling of your appliance. You can adjust the hysteresis to 0.1 °C, 0.2 °C, 0.5 °C, or 1.0 °C through the thermostat's settings menu. A smaller hysteresis provides tighter temperature control but may lead to more frequent cycling.

## 6. MAINTENANCE

### 6.1. Battery Replacement

When the low battery indicator appears on the control unit's display, replace the 2 x AA Mignon batteries promptly to ensure continuous operation. Refer to Section 4.2 for battery installation steps.

### 6.2. Cleaning

Clean the thermostat units with a soft, dry cloth. Do not use abrasive cleaners, solvents, or immerse the units in water. Ensure no moisture enters the units.



## 7. TROUBLESHOOTING

- **No Display on Control Unit:** Check if batteries are correctly inserted and not depleted. Replace batteries if necessary.
- **Heating/Cooling System Not Responding:**
  - Verify the switching unit has power.
  - Check the wiring connections to the heating/cooling system.
  - Ensure the control unit and switching unit are properly paired (refer to Section 4.3).
  - Check the operating mode (Heating/Cooling/OFF) and set temperature on the control unit.
- **Inaccurate Temperature Reading:** The thermostat supports temperature calibration. Consult the full user manual for instructions on how to access and adjust temperature calibration settings.
- **Poor Wireless Range:** Ensure the control unit and switching unit are within the specified range (up to 100m in open areas). Large metal objects, thick walls, or other electronic devices can interfere with the radio signal. Try repositioning the control unit.
- **Thermostat Cycles Too Frequently:** Adjust the hysteresis setting (refer to Section 5.6) to a wider differential.

## 8. SPECIFICATIONS

Brand	EMOS
Model Number	P5611OT
Color	White
Product Dimensions (L x W x H)	11.5 x 3.7 x 9.1 cm
Item Weight	315 g
Voltage (Switching Unit)	230 Volts AC
Switching Current	16 (5) A
Material	Plastic
Connectivity Technology	RF (868 MHz)
Power Source (Control Unit)	Battery powered (2 x AA Mignon)
Temperature Control Type	Programmable
Adjustable Temperature Range	7 °C to 30 °C
Temperature Display Range	0 °C to 40 °C
Adjustable Hysteresis	0.1 °C, 0.2 °C, 0.5 °C, 1.0 °C
Special Features	OpenTherm Support, Frost Protection, Backlit Display
Product Specific Uses	Heating, Air Conditioning

## 9. WARRANTY AND SUPPORT

---

For warranty information, technical support, or service inquiries, please refer to the official EMOS website or contact your local EMOS distributor. Keep your purchase receipt as proof of purchase for any warranty claims.