

EMOS P5684

EMOS P5684 Installation Thermostat with Remote Sensor User Manual

Model: P5684

1. INTRODUCTION

The EMOS P5684 is a digital installation thermostat designed for precise temperature control in both heating and cooling systems. This device features a remote sensor, a backlit digital display, and adjustable switching sensitivity, making it suitable for various applications, including hot water tanks and heating installations. This manual provides essential information for the safe and efficient operation of your EMOS P5684 thermostat.





Image 1.1: Front view of the EMOS P5684 digital thermostat with its remote sensor.

2. SAFETY INSTRUCTIONS

Please read these safety instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or damage to the product.

- Installation should only be performed by a qualified electrician in accordance with local electrical codes and regulations.
- Ensure the power supply is disconnected before performing any wiring or maintenance.
- Do not expose the device to water, excessive humidity, or extreme temperatures.
- Do not attempt to open or repair the device yourself. Contact qualified service personnel.
- Keep the device out of reach of children.

3. PRODUCT FEATURES

- **Precise Temperature Regulation:** Offers control from 5°C to 90°C in 0.1°C increments, ideal for accurate management of heating and cooling systems.
- **Adjustable Switching Sensitivity:** Customizable sensitivity from 0.1°C to 15°C allows for individual adaptation to specific system requirements, maximizing control and efficiency.
- **Easy Manual Operation:** Features a backlit digital display for clear visibility of current and set temperatures, with manual adjustment via intuitive buttons.
- **Flexible Installation with Remote Sensor:** The 0.9-meter remote sensor enables versatile installation in hard-to-reach areas, ensuring reliable temperature measurement directly at the heat source.
- **Heating and Cooling Modes:** Supports both heating and cooling applications.

ANALOGUE THERMOSTATE

Diese klassische Option ist ideal für eine unkomplizierte Steuerung. Durch den Drehknopf stellen Sie die Temperatur manuell ein und erhalten maximale Zuverlässigkeit ohne Zusatzfunktionen



 Temperatureinstellung	 Kabelgebunden
 Heizung und Kühlung	 Energiesparend



Image 3.1: Visual representation of key features including temperature setting, heating/cooling modes, wired connection, and energy saving.

4. PACKAGE CONTENTS

Upon unpacking, please ensure all items are present and undamaged:

- EMOS P5684 Digital Thermostat Unit
- Remote Temperature Sensor (0.9m cable)



EMOS®

CAPILLARY SENSOR THERMOSTAT P5684

 5 A/1.5 A




LED
indication



Energy
saving



5. SETUP AND INSTALLATION

The EMOS P5684 thermostat is designed for flexible installation. The remote sensor allows for accurate temperature measurement directly at the heat source, even in hard-to-reach locations.

5.1 Mounting the Thermostat

1. Choose a suitable location for the thermostat unit, ensuring it is protected from direct sunlight, drafts, and heat sources that could affect its internal temperature.
2. Secure the thermostat unit to a wall or surface using appropriate screws.

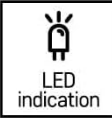
5.2 Connecting the Remote Sensor

The 0.9-meter remote sensor should be placed to accurately measure the temperature of the medium or area you wish to control (e.g., a pipe, water tank). Ensure the sensor is securely attached and insulated if necessary to prevent external temperature influences.

5.3 Electrical Wiring

WARNING: Electrical wiring must be performed by a qualified professional. Ensure power is OFF before wiring.

1. Open the wiring cover on the thermostat unit.
2. Connect the power supply (230V AC) to the designated terminals.
3. Connect the heating or cooling appliance (e.g., pump, valve) to the output terminals.
4. Ensure all connections are secure. Loose connections can lead to malfunction or safety hazards.
5. Close the wiring cover securely.



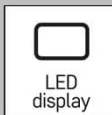
LED-Anzeige



Schaltleistung



ON/OFF-Funktion



Digitales display

Image 5.1: Example of the EMOS P5684 thermostat installed, showing the unit and remote sensor in a typical application.

6. OPERATING INSTRUCTIONS

The EMOS P5684 thermostat features a user-friendly interface for setting and monitoring temperatures.

6.1 Digital Display

The backlit digital display shows the current measured temperature. When adjusting settings, it will temporarily show the set temperature or parameter value.

6.2 Setting the Desired Temperature

1. Press the 'Up' or 'Down' arrow buttons to enter temperature setting mode. The display will flash the current set temperature.
2. Use the 'Up' or 'Down' arrow buttons to adjust the desired temperature. The temperature can be set between 5°C and 90°C in 0.1°C increments.
3. After a few seconds of inactivity, the thermostat will automatically save the new setting and return to displaying the current measured temperature.

6.3 Adjusting Switching Sensitivity (Hysteresis)

The switching sensitivity (hysteresis) determines the temperature difference between the turn-on and turn-off points of the controlled appliance. This prevents rapid cycling of the appliance.

1. Refer to the specific instructions provided with your thermostat for accessing the hysteresis setting. This typically involves a combination of button presses or a dedicated mode.
2. Adjust the sensitivity between 0.1°C and 15°C using the 'Up' or 'Down' arrow buttons. A lower value means more precise control but more frequent switching; a higher value means less frequent switching but wider temperature fluctuations.
3. Confirm the setting to save.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	EMOS
Model Number	P5684
Voltage	230 Volts
Material	Plastic, Rubber
Product Dimensions (L x W x H)	3.6 x 3.6 x 13.8 cm
Weight	157 g
Temperature Control Range	5°C to 90°C
Switching Sensitivity	0.1°C to 15°C
Display Type	LCD
Power Source	Wired
Remote Sensor Cable Length	0.9 meters



138 mm



Image 7.1: Dimensions of the EMOS P5684 thermostat unit.

8. MAINTENANCE

The EMOS P5684 thermostat requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Wipe the thermostat unit with a soft, dry cloth. Do not use abrasive cleaners or solvents, as these can damage the display or casing.
- **Sensor Check:** Periodically inspect the remote sensor and its cable for any signs of damage or wear. Ensure it remains securely in its measuring position.
- **Electrical Connections:** If you suspect any issues, have a qualified electrician check the electrical connections for tightness and integrity.

9. TROUBLESHOOTING

If you encounter problems with your EMOS P5684 thermostat, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Display is blank	No power supply	Check power connections and circuit breaker. Ensure the device is properly wired.
Incorrect temperature reading	Sensor improperly placed or damaged	Verify the remote sensor's position and ensure it is measuring the correct temperature. Check the sensor cable for damage.
Appliance not switching ON/OFF	Incorrect temperature setting or wiring issue	Check the set temperature and switching sensitivity. Ensure the appliance is correctly wired to the thermostat output. Verify the appliance itself is functional.
Loose electrical connections	Poor wiring during installation	WARNING: Disconnect power. Have a qualified electrician inspect and tighten all internal wiring connections.

10. WARRANTY AND SUPPORT

Specific warranty information for the EMOS P5684 thermostat is not provided in this manual. For details regarding warranty coverage, technical support, or service, please contact your retailer or the official EMOS customer service. Keep your purchase receipt as proof of purchase.

<div><div>20200801_24_P56211_20_20</div><div>80 x 100 mm</div></div> <div><div>P56211</div><div><div><div>01</div><div>Thermostat</div></div><div><div>02</div><div>Thermostat</div></div><div><div>03</div><div>Thermostat</div></div><div><div>04</div><div>Thermostat</div></div><div><div>05</div><div>Thermostat</div></div><div><div>06</div><div>Thermostat</div></div><div><div>07</div><div>Thermostat</div></div><div><div>08</div><div>Thermostat</div></div><div><div>09</div><div>Thermostat</div></div><div><div>10</div><div>Thermostat</div></div><div><div>11</div><div>Thermostat</div></div><div><div>12</div><div>Thermostat</div></div><div><div>13</div><div>Thermostat</div></div><div><div>14</div><div>Thermostat</div></div><div><div>15</div><div>Thermostat</div></div><div><div>16</div><div>Thermostat</div></div><div><div>17</div><div>Thermostat</div></div><div><div>18</div><div>Thermostat</div></div><div><div>19</div><div>Thermostat</div></div><div><div>20</div><div>Thermostat</div></div></div></div> <div><div>CE</div><div>www.emos.eu</div></div>
