meross MTS205

Meross MTS205 Smart Wi-Fi Electric Heating Thermostat User Manual

Model: MTS205 | Brand: Meross

1. INTRODUCTION

Thank you for choosing the Meross MTS205 Smart Wi-Fi Electric Heating Thermostat. This device is designed to provide intelligent control over your electric heating system, offering convenience, energy efficiency, and smart home integration. Please read this manual carefully before installation and use to ensure proper operation and safety.

2. PRODUCT OVERVIEW

The Meross MTS205 thermostat features a minimalist design with a clear LCD display and touch controls. It is equipped with both an integrated ambient temperature sensor and an optional external floor sensor for precise temperature management.

Figure 2.1: Thermostat Features. This image displays the Meross MTS205 Smart Wi-Fi Electric Heating Thermostat with its key features labeled, including temperature presets (Comfort, Sleep, Eco), Wi-Fi indicator, open window detection, current/set temperature display, heating/cooling mode (summer mode activated), power button, mode selection, and up/down controls.

3. PACKAGE CONTENTS

Ensure all items are present in the package:

- 1 x Meross MTS205 Smart Wi-Fi Electric Heating Thermostat
- 1 x User Manual
- 1 x External Sensor (optional)
- 4 x Screws
- 1 x Wiring Sticker

Figure 3.1: Package Contents. This image shows the Meross Smart Wi-Fi Thermostat, four screws, an external sensor, a wiring sticker, and the user manual.

4. SAFETY INFORMATION

- Always turn off the power at the circuit breaker before installing, removing, or servicing the thermostat.
- Installation should be performed by a qualified electrician if you are unsure about the wiring process.
- Ensure the thermostat is compatible with your electric heating system (16A, 240V). It is**not compatible** with water heating systems or gas boilers.
- Do not expose the device to moisture or extreme temperatures.
- Keep out of reach of children.

Figure 4.1: Heating System Compatibility. This diagram illustrates that the Meross MTS205 thermostat is compatible with electric underfloor heating systems but not with boiler or water heating systems.

5. INSTALLATION

Before beginning installation, ensure the power to your heating system is turned off at the main circuit breaker. This thermostat is designed for electric heating systems only.

5.1 Wiring Diagram and Dimensions

Verify the dimensions and wiring diagram before purchase and installation. The sensor (included in the thermostat kit) connected to terminals 6 and 7 is optional.

Dimensions et Schéma de Câblage

Vérifiez les dimensions et le schéma de câblage avant l'achat. Le capteur (inclus dans le kit du thermostat) connecté aux bornes 6 et 7 est optionnel.
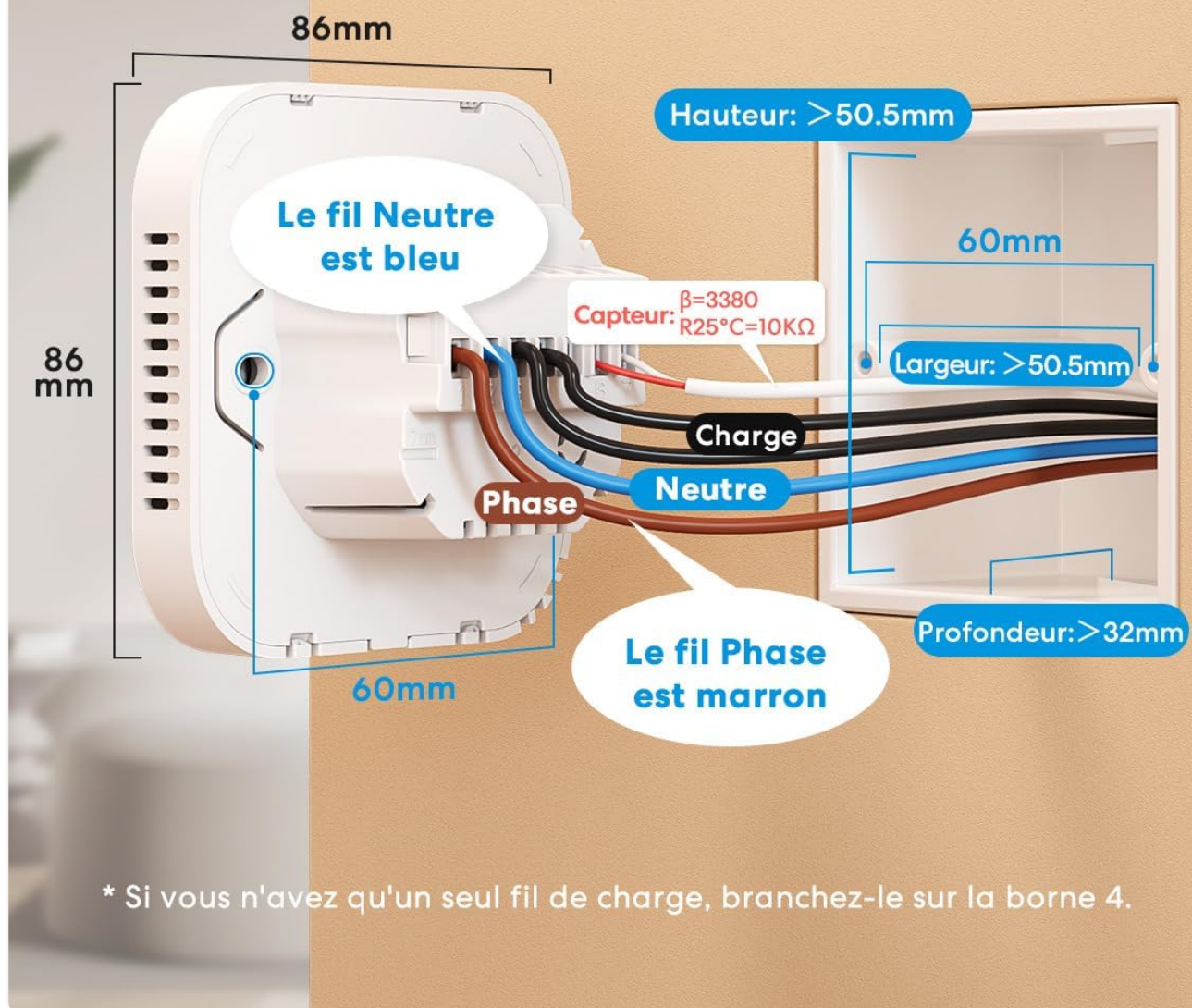
86mm

Hauteur: >50.5mm

60mm

Le fil Neutre est bleu

Capteur: $\beta=3380$ $R25°C=10K\Omega$

Largeur: >50.5mm

86 mm

Charge

Neutre

Phase

Profondeur:>32mm

Le fil Phase est marron

60mm

* Si vous n'avez qu'un seul fil de charge, branchez-le sur la borne 4.

Figure 5.1: Dimensions and Wiring Diagram. This image shows the physical dimensions (86mm x 86mm) of the thermostat and a detailed wiring diagram for installation. It indicates the neutral wire (blue), phase wire (brown), charge, and optional sensor connections (terminals 6 and 7). The recessed box dimensions are also provided: Height > 50.5mm, Width > 50.5mm, Depth > 32mm. A note states: "If you only have one charge wire, connect it to terminal 4."

5.2 Dual Sensor System

The thermostat includes an integrated sensor for ambient temperature measurement and an external sensor for floor overheating protection. The external sensor is optional and can be embedded.

Figure 5.2: Dual Sensor System. This image illustrates the thermostat's integrated sensor for ambient temperature and an external sensor (optional and embedded) for floor temperature protection.

6. INITIAL SETUP & APP CONNECTION

To unlock the full potential of your Meross thermostat, connect it to the Meross app. The thermostat supports 2.4 GHz Wi-Fi networks only.

6.1 Download the Meross App

Download the Meross app from the App Store or Google Play Store. Register an account and log in.

6.2 Connect to Wi-Fi

Follow the in-app instructions to add your thermostat. Ensure your phone is connected to a 2.4 GHz Wi-Fi network during setup.
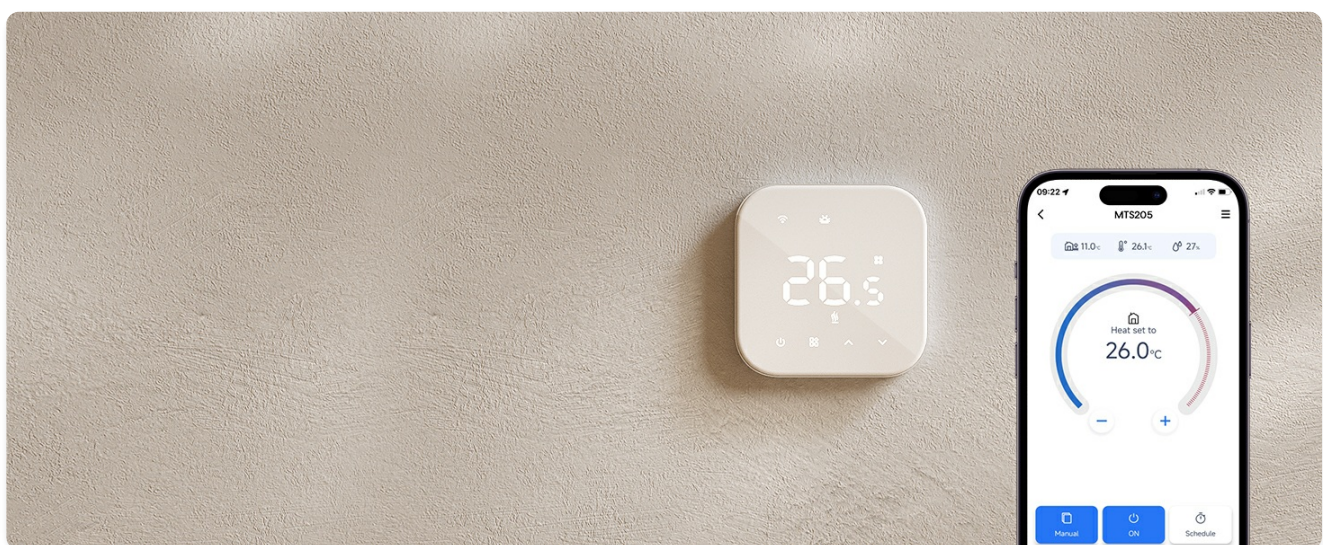

Figure 6.1: Intuitive Use with Meross App. This image shows the Meross MTS205 thermostat displaying 26.5°C, with a smartphone next to it showing the Meross app interface set to 25.0°C, indicating heating to 26.0°C, and options for Manual, On, and Auto modes.

7. OPERATION

The Meross MTS205 offers various modes and smart features to optimize your heating experience.

7.1 Manual Control

Adjust the temperature directly on the thermostat's touch screen or via the Meross app for immediate changes.

Figure 7.1: Intuitive Touch Control. A hand is shown interacting with the minimalist glass panel of the Meross MTS205 thermostat, adjusting the temperature with a simple gesture.

7.2 Smart Programming

Set up to 8 time ranges in the Meross app to automatically activate and deactivate heating based on your daily habits. This feature helps save energy and reduce heating costs.
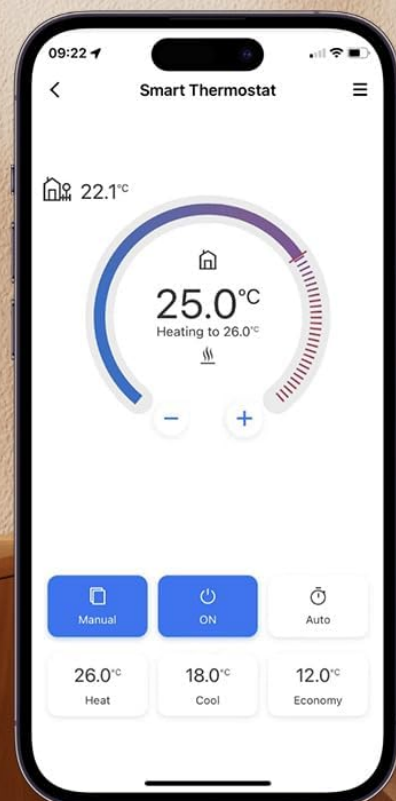
7.3 Voice Control

The thermostat is compatible with Amazon Alexa and Google Home, allowing you to control your heating with voice commands.

7.4 Window Detection

If an open window causes the ambient temperature to drop by 2°C within 15 minutes, the thermostat will automatically pause heating for 30 minutes and notify you via the app, preventing energy waste.

Figure 7.3: Open Window Detected. This image shows a woman opening a window, and the thermostat's display indicating an open window, which automatically pauses heating to prevent energy waste.

7.5 Energy Saving Modes

The thermostat supports three modes: hot air mode, cold air mode (for radiators with summer mode), and energy-saving mode. You can set individual temperatures for each room to achieve ideal comfort and reduce costs.

Figure 7.4: Multi-Room Energy Saving. This image depicts a modern house with different temperature settings in various rooms (16℃, 18℃, 20℃, 23℃), illustrating how multi-room temperature control can lead to energy savings.

7.6 Heating Monitoring

Monitor your heating system's status, temperature curve, and total heating duration through the Meross app. The intelligent 7x24 hour graphical program visually displays usage duration and time slots, helping you save energy and reduce heating costs.

I Suivi de Votre Chauffage

Surveillez l'état du système de chauffage, la courbe de température et la durée totale de chauffage. Calculez les coûts énergétiques.*

2023/12/08
15h 36m
7.02€

12-04 12-05 12-06 12-07 12-08 12-09 12-10

Semaine Mois Année

Jour Semaine Mois

00:00 04:00 08:00 12:00 16:00 20:00 00:00

*En renseignant le tarif de l'énergie, l'appareil peut estimer vos dépenses de chauffage.

Figure 7.5: Heating Monitoring and Energy Savings. This image shows the thermostat displaying 26.5°C, alongside app screenshots illustrating weekly, monthly, and yearly heating usage data, including estimated costs, and a temperature curve over time. This helps users track and optimize energy consumption.

8. MAINTENANCE

- Clean the thermostat regularly with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Ensure the thermostat's vents are not obstructed to allow for accurate temperature readings.
- Check wiring connections periodically to ensure they are secure.

9. TROUBLESHOOTING

9.1 Thermostat Not Powering On

- Check the circuit breaker to ensure power is supplied to the heating system.
- Verify all wiring connections are correct and secure according to the installation diagram.

9.2 Wi-Fi Disconnection

- Ensure your Wi-Fi router is working correctly and broadcasting a 2.4 GHz signal.
- Move the thermostat closer to the Wi-Fi router or consider a Wi-Fi extender.
- Reset the thermostat by pressing and holding the up and down buttons for 5 seconds until the Wi-Fi LED blinks slowly, then re-pair via the app.

9.3 Inaccurate Temperature Readings

- Ensure the thermostat is not exposed to direct sunlight, drafts, or heat sources.
- If using an external sensor, ensure it is properly installed and not damaged.
- The thermostat can be calibrated via the Meross app if necessary.

10. SPECIFICATIONS

Feature	Specification
Model Number	MTS205
Power Supply	240 Volts (AC90-240V)
Max Load Current	16A
Power Consumption	3840 Watts
Connectivity	Wi-Fi (2.4 GHz only)
Temperature Control Type	Heating
Temperature Range	5°C to 35°C
Temperature Accuracy	±0.5°C
Display Type	LED
Dimensions (L x W x H)	8.6 x 4.8 x 8.6 cm
Weight	141 grams
Special Features	Temperature Display, Window Detection, Dual Sensor, Child Lock

Compatibility	Amazon Alexa, Google Assistant

11. Warranty and Support

Meross products come with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official Meross website for detailed warranty information.

For technical support, troubleshooting assistance, or any questions regarding your Meross MTS205 thermostat, please contact Meross customer service through the Meross app or their official website. You can also check compatibility online:

Meross Compatibility Check (MTS205B-EU)

I Compatibility Check

Please scan to check the compatibility before purchasing.

Scan the QR Code

Figure 11.1: Compatibility Check. Scan the QR code to check compatibility before purchasing or installing.