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- › [Mi-Heat](#) /
- › [Mi-Heat Mi520 Digital Programmable Room Thermostat User Manual](#)

## Mi-Heat Mi520

# Mi-Heat Mi520 Digital Programmable Room Thermostat User Manual

Model: Mi520 | Brand: Mi-Heat

### INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Mi-Heat Mi520 Digital Programmable Room Thermostat. Please read this manual thoroughly before installation and use to ensure proper function and safety.

### PRODUCT OVERVIEW

The Mi-Heat Mi520 thermostat is designed for regulating electric underfloor heating systems, including heating mats, heating circuits, and heating films. It offers programmable features for customized heating schedules and includes frost protection.



Figure 1: Front view of the Mi-Heat Mi520 thermostat, showing the digital display and control buttons.



Figure 2: Angled view of the Mi-Heat Mi520 thermostat, highlighting its compact design and button layout.

## SETUP AND INSTALLATION

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The Mi520 thermostat supports both flush-mounted and surface-mounted installations. For surface mounting, a suitable surface-mount box is required. Installation should be performed by a qualified electrician in accordance with local regulations.

### Package Contents:

- Mi520 Thermostat Unit
- Floor Sensor
- Mounting Material
- User Manual (this document)

### Connecting the Floor Sensor:

The thermostat uses an external floor sensor for accurate temperature measurement. Ensure the sensor cable is properly routed and connected to the designated terminals on the thermostat. The floor sensor helps maintain the desired floor temperature.



Figure 3: The external floor sensor cable, essential for accurate floor temperature regulation.

## Wiring Diagram:

Refer to the detailed wiring diagram provided in the physical manual included with your product for specific connection points. Ensure all connections are secure and correctly insulated.

## OPERATING INSTRUCTIONS

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The Mi520 thermostat offers various modes and programming options to optimize your heating system.

### Basic Operation:

- **Power On/Off:** Use the power button (usually indicated by a circle with a vertical line) to turn the thermostat on or off.
- **Temperature Adjustment:** Use the '+' and '-' buttons to manually adjust the desired temperature. The thermostat can be set within a range of 5-35 °C (external sensor).
- **Display and Backlight:** The unit features a backlit display for clear visibility of settings and current temperature.

### Programming Modes:

The thermostat supports daily and weekly programming, allowing you to set specific comfort temperatures for different times of the day and week.

- **Comfort Temperature:** Set your preferred temperature for continuous operation during active periods.
- **Scheduled Heating:** Program specific time slots for heating, optimizing energy consumption.
- **Temperature Reduction:** The thermostat can automatically reduce the temperature outside of programmed heating times to save energy.

### Special Features:

- **Frost Protection:** This feature prevents the temperature from dropping below a critical level, protecting your pipes and property from freezing.
- **Child Safety Lock:** Activate the child safety function to prevent unauthorized changes to the thermostat settings. Refer to the physical manual for instructions on how to enable/disable this feature.
- **Adaptive Regulation:** The thermostat uses adaptive regulation to learn the heating characteristics of your room and optimize heating cycles for efficiency.

## MAINTENANCE

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The Mi-Heat Mi520 thermostat requires minimal maintenance. Keep the display and casing clean using a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure that the air vents (if any) are not obstructed to allow for proper temperature sensing.

## TROUBLESHOOTING

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If you encounter issues with your thermostat, please refer to the troubleshooting section in the comprehensive physical manual. Common issues may include incorrect wiring, sensor errors, or programming conflicts. Ensure the power supply is stable and all connections are secure.

- **No Display/Power:** Check the main power supply and circuit breaker. Verify wiring connections.
- **Incorrect Temperature Reading:** Ensure the floor sensor is correctly installed and not damaged.
- **Heating Not Activating:** Check programmed schedules, current temperature settings, and ensure the thermostat is in heating mode.

## SPECIFICATIONS

Feature	Specification
Mounting	Flush-mounted and Surface-mounted (surface-mount box required)
Connection Type	Wired
Supply Voltage	230 V
Max. Switching Power	16 A / 3680 W
Control Type	Adaptive Regulation
Operating Temperature	5-40 °C
Sensors	External (floor sensor only)
Temperature Setting Range (External)	5-35 °C (floor sensor)
Frost Protection	Yes
Display/Backlight	Yes/Yes
IP Rating	IP21
Dimensions (W x H x D)	80 x 80 x 45 mm

## WARRANTY AND SUPPORT

For support regarding your Mi-Heat Mi520 thermostat, please contact Mi-Heat customer service. We offer support and shipping directly from Germany. For questions about our products, your order, or project implementation, you can reach us Monday to Friday from 09:00 to 16:00 (CET).

Please retain your proof of purchase for warranty claims. Specific warranty terms and conditions are detailed in the full product documentation.