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## MIUCDA Smart Thermostat

# AVATTO Smart Programmable WiFi Thermostat User Manual

**Brand:** MIUCDA

**Model:** Smart Thermostat

## 1. INTRODUCTION

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The AVATTO Smart Programmable WiFi Thermostat is designed to provide intelligent climate control for your home. Compatible with most 24VAC HVAC systems, including furnaces, air conditioners (2H/2C), heat pumps (2H/2C + Level 2 AUX), boilers, PTAC, and fan coils (3 Fan Speeds), this thermostat offers advanced features for energy saving and convenience.

Key features include remote control via Smart Life or Tuya Smart App, voice control compatibility with Alexa and Google Assistant, multiple working modes, and programmable temperature settings for optimal comfort and efficiency.



Figure 1.1: AVATTO Smart Thermostat showcasing its design, mobile app interface, and C-wire module.

This image displays the sleek design of the AVATTO Smart Thermostat, its intuitive mobile application for remote control, and the included C-wire adapter for power.

## 2. SETUP AND INSTALLATION

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Proper installation is crucial for the optimal performance of your new thermostat. Please follow these steps carefully. If you are unsure about any step, consult a qualified electrician.

### 2.1 Compatibility Check

The thermostat is compatible with most 24VAC HVAC systems. It works with 95% of systems and includes a C-wire power adapter if your existing setup lacks a common wire.

- **Compatible Systems:** Furnace, Air Conditioner (2H/2C), Heat Pump (2H/2C + Level 2 AUX), Boiler, PTAC, Fan Coil (3 Fan Speeds), Cooling Only System, Heating Only System.
- **Incompatible Systems:** High voltage systems (95V-220V), systems with stranded wires, or systems labeled

110V/120V.



Figure 2.1: Comprehensive compatibility chart for the thermostat with different HVAC systems.

This chart details the types of heating and cooling systems compatible with the thermostat, including conventional and heat pump systems.



Figure 2.2: Visual guide to identify incompatible wiring systems (stranded wires, thick stranded wires with wire nuts, 110V/120V labels).

This image illustrates wiring types that are not compatible with the thermostat, such as stranded wires or high voltage systems.

## 2.2 Wiring and Mounting

1. **Power Off:** Before beginning, turn off the power to your HVAC system at the circuit breaker.
2. **Remove Old Thermostat:** Carefully remove your old thermostat from the wall. Take a photo of your existing wiring connections for reference.
3. **Install Backplate:** Mount the new thermostat's backplate to the wall using the provided screws.
4. **Connect Wires:** Connect the wires to the corresponding terminals on the new backplate. Refer to the wiring diagrams provided in the manual. The thermostat supports 10 terminals for various configurations.
5. **C-Wire Adapter (if needed):** If your system does not have a C-wire, use the included C-wire power adapter as per the instructions.
6. **Attach Thermostat:** Snap the thermostat unit onto the mounted backplate.
7. **Power On:** Restore power to your HVAC system at the circuit breaker.



Figure 2.3: Detailed wiring diagrams for systems with an existing C-wire and for systems requiring the C-wire adapter.

This image provides clear wiring instructions for both C-wire and non-C-wire setups, ensuring proper connection.

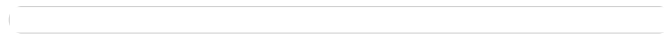


Figure 2.4: Terminal designations and their meanings for correct wiring.

This diagram labels each terminal on the thermostat's backplate and explains its function, aiding in accurate wiring.



Figure 2.5: Dimensions of the backplate and a list of items included in the box for installation.

This image highlights the responsive and visually engaging knob control of the thermostat, with flashing lights indicating adjustments.

## 2.3 App and Voice Control Setup

The thermostat supports remote control via the Smart Life or Tuya Smart App and voice control with Alexa and Google Assistant. Ensure your Wi-Fi network is 2.4GHz.

1. **Download App:** Download and install the "Smart Life" or "Tuya Smart" app from your device's app store.
2. **Register/Login:** Create an account or log in to your existing account.
3. **Add Device:** Follow the in-app instructions to add your new thermostat. Ensure your phone is connected to a 2.4GHz Wi-Fi network.
4. **Voice Assistant Integration:** Link your Smart Life/Tuya Smart account to Alexa or Google Home via their respective apps to enable voice commands.



Figure 2.6: Remote control of the thermostat using the Smart Life or Tuya Smart mobile application.

This image demonstrates the convenience of controlling the thermostat remotely through the Smart Life or Tuya Smart app.




Figure 2.7: Voice control functionality with Amazon Alexa and Google Home.

This image highlights the thermostat's compatibility with popular voice assistants like Alexa and Google Home, allowing for hands-free temperature adjustments.

### Installation Video Guide

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Video 2.1: A detailed video guide demonstrating the installation process of the Smart Knob Thermostat, including wiring and mounting.

### Smart Thermostat WiFi Overview

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Video 2.2: An in-depth overview of the Smart Thermostat WiFi, covering its features, benefits, and smart home integration.

## 3. OPERATING INSTRUCTIONS

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The AVATTO Smart Thermostat features a user-friendly interface with a touch knob and color LCD screen for easy operation.

### 3.1 Working Modes

The thermostat offers 5 working modes to optimize energy usage and comfort:

- **System Off:** Turns off the HVAC system.
- **Emergency Heating:** Provides auxiliary heating when the primary heat source is unavailable.
- **Cooling Only:** Activates only the cooling function.
- **Heating Only:** Activates only the heating function.
- **System Auto:** Automatically switches between heating and cooling based on programmed settings and current temperature.

### 3.2 Programmable Settings

You can program up to 4 different temperature ranges for each day of the week (5+2/6+1/7 days programming). This allows for automated temperature adjustments based on your schedule, saving energy and ensuring comfort.



Figure 3.1: Programming mode interface on the thermostat and its corresponding mobile app screen.

This image illustrates how to set daily temperature schedules directly on the thermostat and through the mobile app, allowing for personalized climate control.

### 3.3 Display and Controls

The color LCD screen displays essential information at a glance:

- Weather, Indoor Temperature, Outdoor Temperature
- Time, Week, Current State
- System Mode, Fan Mode, Wi-Fi Symbol
- Filter Cleaning Reminder, Hold Mode, Child Lock



Figure 3.2: Breakdown of all elements displayed on the thermostat screen, including icons for various functions.

This image provides a comprehensive guide to all the information presented on the thermostat's display, from weather to system status.

### Knob Control

The touch knob allows for smooth temperature adjustments and navigation through settings. Flashing lights around the knob provide visual feedback.

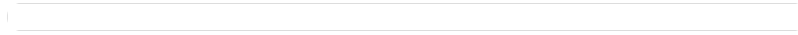


Figure 3.3: Demonstrates the smooth operation of the touch knob for temperature control.

This image highlights the responsive and visually engaging knob control of the thermostat, with flashing lights indicating adjustments.

### Fan Modes

Control your fan with various modes:

- **Fan On:** Runs continuously.
- **Fan Circ:** Runs at intervals to circulate indoor air.
- **Fan Auto:** Automatic adjustment of fan running time.

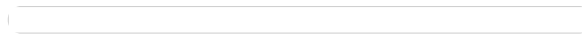


Figure 3.4: Explanation of different fan modes available on the thermostat.

This image details the various fan operation modes, including continuous, circulation, and automatic settings.

### Brightness Adjustment

Adjust the display brightness from 0 to 100% to suit your preference and ambient lighting conditions.

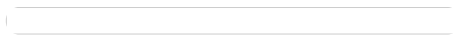


Figure 3.5: Brightness adjustment feature for the thermostat display.

This image shows the brightness adjustment feature, allowing users to customize the display's luminosity for comfort.

### Child Lock

Activate the child lock feature to prevent unauthorized changes to settings.

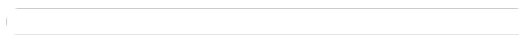


Figure 3.6: Child lock feature to prevent accidental changes to thermostat settings.

This image illustrates the child lock function, designed to prevent unintended adjustments to the thermostat settings.

## Fashionable Smart Thermostat Features

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Video 3.7: A short video showcasing the fashionable design and various interactive features of the smart thermostat.

## 4. MAINTENANCE

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To ensure the longevity and efficient operation of your AVATTO Smart Thermostat, regular maintenance is recommended.

- **Filter Cleaning Reminder:** The thermostat screen displays a filter cleaning reminder. It is important to clean or replace your HVAC system's air filter regularly as indicated to maintain air quality and system efficiency.

- **General Cleaning:** Wipe the thermostat screen and body with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- **Software Updates:** Keep the Smart Life or Tuya Smart App updated to ensure your thermostat has the latest features and security patches.

## 5. TROUBLESHOOTING

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If you encounter issues with your thermostat, try the following troubleshooting steps:

- **No Power/Display:**
  - Ensure the power to your HVAC system is on at the circuit breaker.
  - Verify all wiring connections are secure and correct according to the installation guide.
  - Check if the C-wire adapter is properly installed if your system requires it.
- **Wi-Fi Connectivity Issues:**
  - Confirm your Wi-Fi network is 2.4GHz. The thermostat does not support 5GHz networks.
  - Restart your Wi-Fi router.
  - Ensure the thermostat is within range of your Wi-Fi router.
  - Re-pair the thermostat with the Smart Life/Tuya Smart App.
- **Inaccurate Temperature Readings:**
  - Ensure the thermostat is not exposed to direct sunlight, drafts, or heat sources that could affect its readings.
  - Check the temperature calibration setting in the thermostat's menu or app.
- **System Not Responding to Commands:**
  - Verify the correct system mode (Heat, Cool, Auto) is selected.
  - Check the fan mode settings.
  - Ensure the child lock is not activated.
  - Confirm the thermostat is properly connected to the app and voice assistant.

## 6. SPECIFICATIONS

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Feature	Detail
Brand	MIUCDA
Model Name	Smart Thermostat
Controller Type	Google Assistant, Amazon Alexa, Google Home
Special Feature	Programmable
Color	White
Specific Uses For Product	Heat Pump, Air Conditioner, Furnace
Temperature Control Type	Programmable
Connectivity Technology	Wi-Fi (2.4GHz only)
Included Components	C-wire power adapter
Power Source	AC adapter
Voltage	24 Volts
Material	Plastic
Display Type	LCD
Control Type	Touch
Control Method	Voice
Backlight	Yes (5 different colors)
Item Weight	10.8 ounces
Package Dimensions	6.57 x 5.83 x 2.44 inches

## 7. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the documentation included with your product or contact MIUCDA customer service directly. Contact details are typically found on the product packaging or the manufacturer's official website.

Keep your purchase receipt as proof of purchase for any warranty claims.