

## Miuputake STN601

# Miuputake STN601 Non-Programmable Digital Thermostat User Manual

Model: STN601  
Brand: Miuputake

## 1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of your Miuputake STN601 Non-Programmable Digital Thermostat. This thermostat is designed for single-stage heating and cooling systems, offering reliable temperature control with a clear, backlit LCD display.

Key features include:

- Easy-to-read backlight LCD display.
- Adjustable temperature differential (swing) for energy optimization.
- Support for temperature display calibration.
- Convertible °C/°F units.
- Compressor delay protection (selectable on or off).
- Dual power supply: 24VAC or 2 AAA batteries.



Image: Overview of the Miuputake STN601 thermostat and its main features.

## 2. SAFETY INFORMATION

Please read all instructions carefully before installing or operating this thermostat. Failure to follow these instructions could result in property damage, personal injury, or death.

- Always turn off power to the heating/cooling system at the main fuse or circuit breaker box before installing or servicing the thermostat.
- This thermostat is designed for 24VAC low voltage systems only. Do not use on line voltage applications (110-240V).
- All wiring must conform to local electrical codes and ordinances.
- Do not short (jumper) across terminals on the gas valve or at the system circuit board to test the system. This will damage the thermostat and void the warranty.

## 3. PACKAGE CONTENTS

Verify that your package contains the following items:

- Miuputake STN601 Thermostat
- Installation Manual and Operating Manual
- Two Screws and Anchors
- Cable Label

## Small Thermostat, Big Power for Your Sweet Home



Image: What's in the Box - STN601 Thermostat and accessories.

### 4. SYSTEM COMPATIBILITY

The Miuputake STN601 thermostat is designed for single-stage heating and cooling systems. Please review the compatibility information below to ensure it works with your HVAC system.

#### Compatible Systems:

- Forced air (gas, oil, or electric)
- Electric furnace
- Hot water steam or gravity radiant heat
- Heat only systems
- Heat pump without auxiliary or emergency heat
- Millivolt systems
- Gas fireplaces (24V)
- Floor or wall furnaces
- Cool only systems

#### Not Compatible With:

- Heat pump with auxiliary or emergency heat
- Dual fuel/hybrid heating systems
- Electric baseboard heat (110-240 volts)
- Line voltage systems
- Convectors
- Radiant-ceiling heat
- Mini split systems
- 12V RV systems

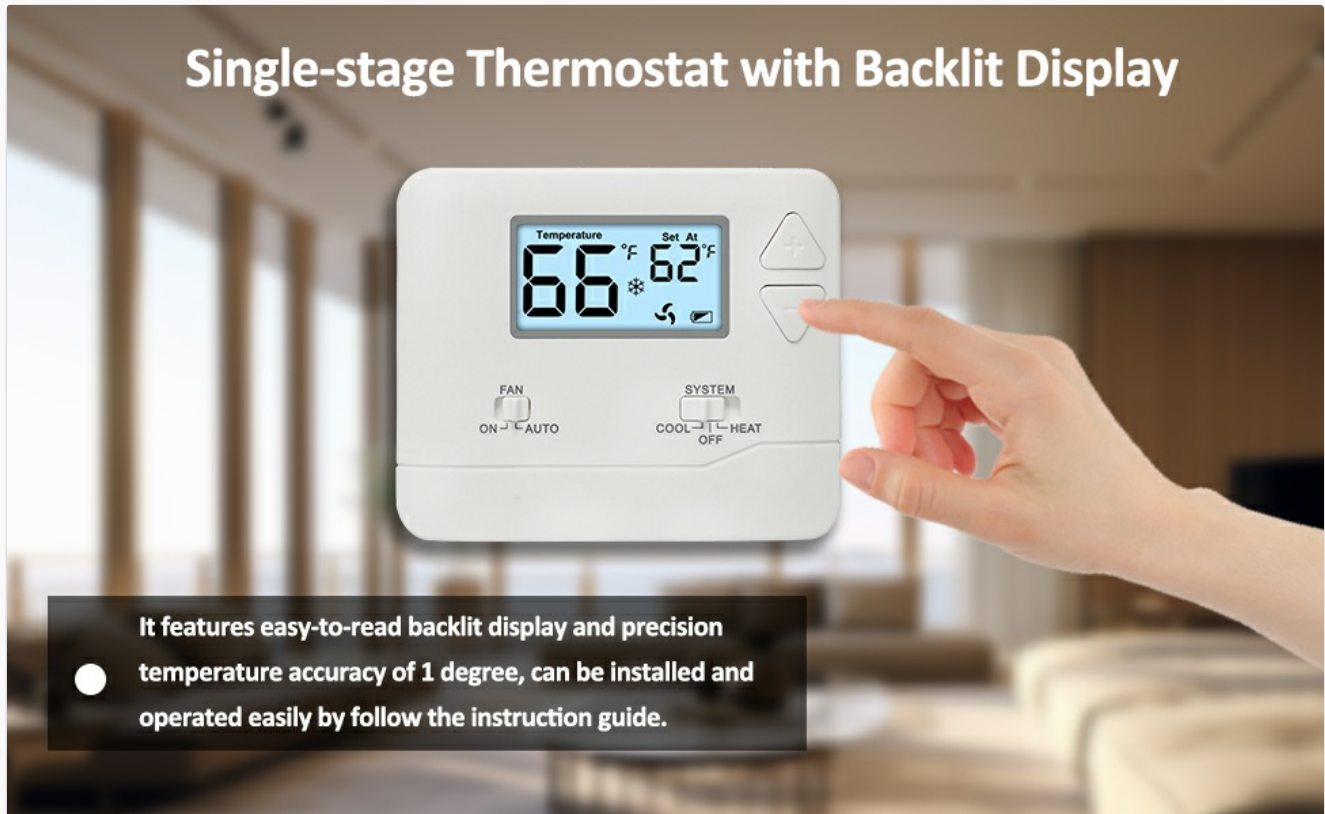


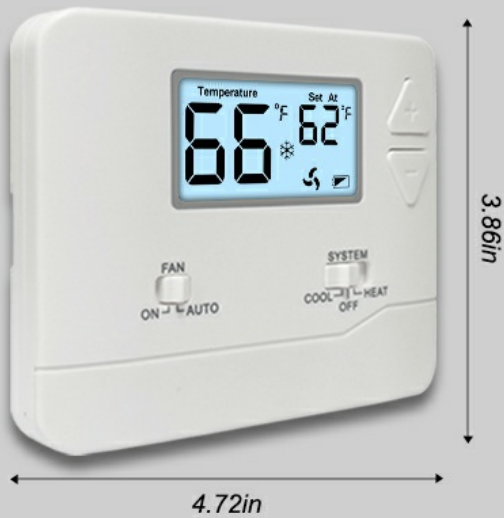
Image: System Compatibility Chart for 1 Heat, 1 Cool Single Stage Thermostat.

## 5. PRODUCT OVERVIEW AND CONTROLS

The STN601 thermostat features a simple, user-friendly interface for manual temperature control.

# Single Stage Thermostat Parameters

Create a healthy and comfortable life



Series Application	Single Stage 1 Heat / 1 Cool Non-programmable
Factory Part Number	STN601
Dimensions	4.72 x 3.86 x 0.98in (119.9 x 98 x 24.9mm)
Mounting Type	Wall or junction box
Temperature Range	44°F to 90°F (7°C to 32°C)
Backlight Color	White / Blue / Green
Power Source	24V AC (18 to 30V AC), 50/60 Hz for hardwire common wire or 2 AAA 1.5V alkaline batteries (Not included)
Terminals	Rh, Rc, C, Y, W, G, O, B

Image: Thermostat Layout and User Interface.

## Display:

- **Temperature Display Range:** 32°F to 99°F (0°C to 40°C).
- **Temperature Set Range:** 44°F to 90°F (7°C to 32°C).
- **Accuracy:**  $\pm 2^\circ\text{F}$  for consistent comfort.
- **Low Battery Indicator:** An icon will be displayed when the 2 AAA batteries are low and need replacement.

## Controls:

- **Up/Down Buttons:** Large, adjustable buttons for setting the desired temperature.
- **FAN Switch:** Selects fan operation mode (ON or AUTO).
- **SYSTEM Switch:** Selects system operation mode (COOL, OFF, HEAT).
- **Battery Compartment:** Easy-access front-load compartment for 2 AAA alkaline batteries (not supplied).

## 6. INSTALLATION

Installation can typically be completed within 30 minutes. Ensure power is off before beginning.

### Pre-Installation Checklist:

1. **Turn off power:** Disconnect power to your heating and cooling system at the main fuse or circuit breaker.
2. **Remove old thermostat:** Carefully remove your old thermostat from the wall. Note the wiring connections.
3. **Check dimensions:** Confirm that the new thermostat's dimensions (4.72"W x 3.86"H x 0.98"D) can completely cover any traces or marks from your old thermostat.

# What's in the Box

- STN601 Thermostat
- Manuals (Installation & Operation)
- Wiring Label
- 2 Screws, 2 Wall Anchors



Image: Heating and Cooling Thermostat Dimensions.

## Mounting:

1. Separate the thermostat from its sub-base.
2. Position the sub-base on the wall where you want to mount the thermostat. Use the provided screws and anchors to secure it.

## Power Supply:

The thermostat can be powered by 24VAC from your HVAC system or by 2 AAA batteries. A common wire (C-wire) is not required on most systems, but if available, it provides a backup power source, maintaining settings during power outages.

## 7. WIRING

Proper wiring is crucial for correct thermostat operation. Refer to the diagrams below and use the provided cable labels.

# Thermostat Wiring Terminals

Easy to replace the old thermostat simply just connected with the corresponding terminals

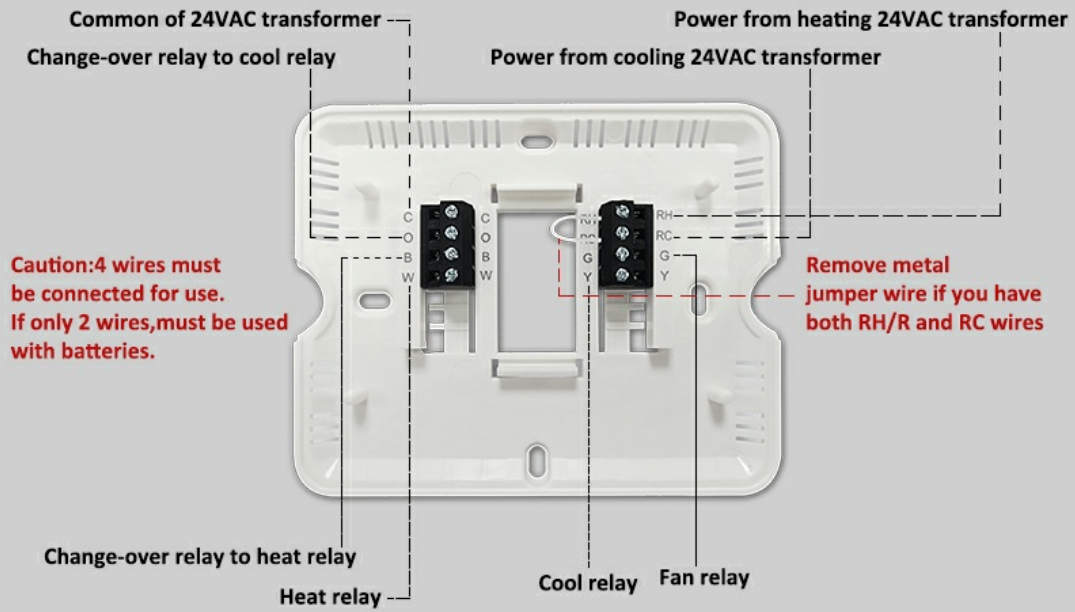


Image: Digital Wall Thermostat Wiring Layout.

# 1 Heat, 1 Cool Single Stage Room Thermostat System Compatibility

## Heating Compatible:

- ✓ Gas / Oil / Electric Furnace - Heating Only
- ✓ Gas / Oil / Electric Furnace - Single Stage
- ✓ Heat Pump w/o Auxiliary or Emergency Heat
- ✓ Floor or Wall Furnaces
- ✓ Gas Fireplaces (24V)
- ✓ Millivolt
- ✓ Forced Air

## Cooling Compatible:

- ✓ Cooling Only Systems
- ✓ Single Stage Cooling



## Not Compatible:

- ✗ Heat Pump with Auxiliary or Emergency Heat
- ✗ Gas / Oil / Electric Furnace - Multi Stage
- ✗ Electric Baseboard Heat (110-240 Volts)
- ✗ Portable Space Heaters
- ✗ Radiant Ceiling Heat
- ✗ Convectors
- ✗ Multi Stage Cooling
- ✗ Mini Split Systems

Image: Thermostat Wiring Terminals and Connections.

### Terminal Designations:

- **C:** Common 24VAC (system power supply)
- **O:** Reversing Valve Cool
- **B:** Reversing Valve Heat
- **W:** Heat
- **RH:** 24VAC (system power supply) - Heat = RH to W
- **RC:** 24VAC (system power supply) - Cool = RC to Y, Fan = RC to G
- **G:** Fan
- **Y:** Cool

### Wiring Instructions:

1. Connect the wires from your HVAC system to the corresponding terminals on the thermostat's sub-base. Use the provided cable labels for organization.
2. If you have both RH and RC wires, **remove the metal jumper wire** that connects them on the thermostat.

3. **Important:** 4 wires must be connected for full functionality. If only 2 wires are available, the thermostat must be used with batteries.
4. Ensure the Electric/Gas switch on the back of the thermostat is set correctly for your system type.
5. Once wiring is complete, carefully attach the thermostat faceplate to the sub-base.
6. Restore power to your HVAC system at the main fuse or circuit breaker.

## 8. OPERATION

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Operating your Miuputake STN601 thermostat is straightforward.

### Setting the Temperature:

Use the large **Up** (▲) and **Down** (▼) buttons on the right side of the thermostat to adjust the desired set temperature. The display will show both the current room temperature and the set temperature.

### System Switch (COOL/OFF/HEAT):

Slide the **SYSTEM** switch to select the desired operating mode:

- **COOL:** Activates the cooling system when the room temperature rises above the set temperature.
- **OFF:** Turns off both heating and cooling systems.
- **HEAT:** Activates the heating system when the room temperature falls below the set temperature.

### Fan Switch (ON/AUTO):

Slide the **FAN** switch to select the desired fan operation:

- **ON:** The fan runs continuously, regardless of whether the heating or cooling system is active.
- **AUTO:** The fan runs only when the heating or cooling system is actively operating.

### Temperature Unit Conversion (°C/°F):

Refer to the full installation manual for instructions on how to switch between Celsius and Fahrenheit display units, as this is typically a setting accessed during initial setup or via a specific button combination.

## 9. MAINTENANCE

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Your Miuputake STN601 thermostat requires minimal maintenance to ensure optimal performance.

### Cleaning:

Wipe the exterior of the thermostat with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the finish and electronic components.

### Battery Replacement:

When the low battery indicator appears on the display, replace the two AAA alkaline batteries promptly. The battery compartment is located on the front of the thermostat for easy access. Ensure correct polarity when inserting new batteries.

## 10. TROUBLESHOOTING

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

- **No Display/Blank Screen:** Check if the power to the HVAC system is on. If using batteries, replace them with

fresh AAA alkaline batteries.

- **System Not Responding:** Ensure the SYSTEM switch is set to COOL or HEAT, not OFF. Verify that the fan switch is set correctly (ON or AUTO). Check circuit breakers for your HVAC system.
- **Incorrect Temperature Reading:** The thermostat has a temperature display calibration feature. Refer to the full operating manual for instructions on how to adjust this setting if you suspect an inaccurate reading.
- **Fan Runs Continuously:** Check if the FAN switch is set to ON. If you prefer the fan to run only with heating/cooling, set it to AUTO.
- **Heating/Cooling Cycles Too Frequently/Infrequently:** The adjustable temperature differential (swing) can be optimized. Consult the operating manual for details on adjusting this setting.

If problems persist after attempting these steps, please contact customer support.

## 11. SPECIFICATIONS

Detailed technical specifications for the Miuputake STN601 Non-Programmable Digital Thermostat:

### Non-programmable Home Thermostat for Indoor Temperature Controls

 <b>Heating</b>	 <b>Cooling</b>	 <b>Comfort Display</b>
 <b>°C / °F Selectable</b>	 <b>High Accuracy</b>	 <b>Swing Adjustable</b>
 <b>Easy Operation</b>	 <b>Low Energy Consumption</b>	 <b>Batteries or 24V Power</b>

Image: Single Stage Thermostat Parameters.

Feature	Specification
Brand	Miuputake
Model Name	STN601
Product Dimensions (D x W x H)	0.98"D x 4.72"W x 3.86"H (2.49cm D x 11.99cm W x 9.8cm H)
Controller Type	Push Button
Special Features	Separate Heating and Cooling Swing (Cycle Rate), Low Battery Indicator, Temperature Calibration, °C/°F Conversion, Compressor Delay Protection
Specific Uses	Heating and Cooling Controls
Temperature Control Type	Manual
Power Source	24VAC or 2 AAA batteries (not included)
Voltage	24 Volts (AC)
Display Type	LCD
Control Method	Touch (buttons)
Mounting Type	Wall Mount
Material Type	Plastic
Item Weight	0.37 Pounds
UPC	635403033326

## 12. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the Miuputake official website. Keep your purchase receipt as proof of purchase.

