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nVent AC0056

nVent Home AC0056 Programmable Thermostat User Manual

Model: AC0056 | Brand: nVent

1. PRODUCT OVERVIEW

The nVent NUHEAT Home thermostat, model AC0056, is a 7-day programmable electric floor heating thermostat. It features a 3.5-inch color touchscreen display for intuitive user interaction and energy usage monitoring. This thermostat is designed for dual voltage compatibility (120 V and 240 V) and includes a physical on/off switch, along with built-in Class A GFCI protection for safety.

Key Features:

- High-resolution 3.5" color touchscreen for easy control.
- 7-day programmable schedule to optimize energy consumption.
- Integrated energy usage monitor to track heating costs.
- Dual voltage compatibility (120V & 240V) for versatile installation.
- Built-in Class A GFCI (Ground Fault Circuit Interrupter) protection.
- Intuitive setup wizard for guided installation and programming.
- Suitable for tile and stone floors, with temperature limiting for laminate and engineered wood floors.

2. SETUP AND INSTALLATION

Installation of the AC0056 thermostat involves electrical wiring. It is recommended that installation be performed by a qualified electrician or a knowledgeable individual familiar with electrical systems to ensure safety and proper functionality. The thermostat is designed for wall mounting.

2.1 Wiring

The thermostat supports both 120V and 240V electrical systems. Ensure the power supply to the circuit is turned off at the main breaker before beginning any wiring. Connect the thermostat according to local electrical codes and the wiring diagram provided in the packaging. The built-in Class A GFCI provides protection against electrical leakage.

2.2 Mounting

Mount the thermostat to a standard electrical box. Ensure it is securely fastened to the wall. The physical dimensions of the thermostat are approximately 4 x 4 x 7 inches, with a screen size of 3.5 inches.



Figure 1: nVent Home AC0056 Thermostat showing approximate dimensions for installation.

2.3 Initial Configuration

Upon initial power-up, the thermostat will guide you through a setup wizard on its touchscreen display. This wizard assists with basic settings such as date, time, temperature units, and floor type. Follow the on-screen prompts to complete the initial configuration.

3. OPERATING INSTRUCTIONS

The AC0056 thermostat features a touchscreen interface for all operations. The main screen typically displays the current temperature, set temperature, and operating mode.

3.1 Power On/Off

A physical on/off switch is located on the thermostat for quick power control. Use this switch to completely power down the unit when necessary, such as during maintenance or extended periods of non-use.

3.2 Setting Temperature

Tap the temperature display on the touchscreen to adjust the desired temperature. Use the up/down arrows or a slider, if available, to set the temperature. The thermostat will maintain this temperature until a programmed schedule takes over or it is manually changed again.

3.3 Programming Schedules

The 7-day programmable feature allows you to create custom heating schedules for each day of the week. Access the programming menu via the touchscreen. You can set different temperature levels for various times of the day (e.g., morning, day, evening, night) to match your lifestyle and reduce energy consumption. The thermostat also includes an "early start" feature to ensure the floor reaches the desired temperature by the scheduled time.

3.4 Energy Usage Monitoring

The thermostat provides an energy usage monitor. Navigate to the energy usage section on the touchscreen to view historical data on your floor heating system's power consumption. This feature helps in understanding and optimizing energy efficiency.

3.5 Floor Type Settings

The thermostat is suitable for controlling heating for tile and stone floors. For laminate and engineered wood floors, a temperature limiting feature is available to prevent damage. Ensure the correct floor type is selected in the settings during initial setup or through the configuration menu.

4. MAINTENANCE

The nVent Home AC0056 thermostat requires minimal maintenance. Regular cleaning of the touchscreen and exterior casing is recommended to ensure optimal performance and appearance.

- **Cleaning:** Use a soft, damp cloth to wipe the touchscreen and the thermostat's surface. Avoid abrasive cleaners, solvents, or chemical sprays, as these can damage the display or casing.
- **Inspection:** Periodically check the thermostat for any visible damage or loose connections. If any issues are observed, consult a qualified technician.
- **GFCI Test:** The built-in GFCI should be tested monthly to ensure proper operation. Refer to the specific instructions provided with the thermostat for the GFCI test procedure.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your nVent Home AC0056 thermostat.

Problem	Possible Cause	Solution
Thermostat display is blank.	No power supply; physical on/off switch is off; circuit breaker tripped.	Check the circuit breaker and ensure it is on. Verify the physical on/off switch on the thermostat is in the 'on' position. If the issue persists, consult an electrician.
Floor heating not working.	Thermostat not set to heat; GFCI tripped; wiring issue; floor sensor fault.	Ensure the thermostat is in heating mode and the set temperature is above the ambient temperature. Check if the GFCI has tripped and reset it if necessary. If the problem continues, inspect wiring or consult a professional.
GFCI trips frequently.	Ground fault detected in the heating system or wiring.	A frequently tripping GFCI indicates a serious electrical issue. Immediately discontinue use and contact a qualified electrician to diagnose and repair the fault.
Incorrect temperature readings.	Floor sensor malfunction or improper placement.	Verify the floor sensor is correctly installed and not damaged. If the sensor is faulty, it may need replacement.

For issues not covered here, or if troubleshooting steps do not resolve the problem, contact customer support or a qualified electrician.

6. SPECIFICATIONS

Brand	nVent (Cable Stop)
Model Name	AC0056
Controller Type	Touchscreen
Special Feature	Programmable
Color	White
Specific Uses	Floor Heating Systems
Temperature Control Type	Programmable
Included Components	nVent AC0056 NUHEAT 7-Day Programmable Touchscreen Thermostat
Power Source	Electric
Voltage	120V / 240V (Dual Voltage)
Display Type	Digital
Screen Size	3.5 Inches
Control Method	Touch
Mounting Type	Wall Mount
Backlight	Yes
Item Weight	11.3 ounces
Product Dimensions	4 x 4 x 7 inches
UPC	620713001721, 784497454088, 740774198052

7. WARRANTY AND SUPPORT

7.1 Warranty Information

The provided product information states "N/a" for warranty description. For detailed warranty terms and conditions, please refer to the documentation included with your product or visit the official nVent website. Keep your proof of purchase for any warranty claims.

7.2 Customer Support

If you require technical assistance, have questions about installation, operation, or troubleshooting that are not covered in this manual, please contact nVent customer support. Contact information can typically be found on the product packaging or the manufacturer's official website.