

ASA Electronics ACTH12

ASA ACTH12 Digital Thermostat User Manual

Model: ACTH12

1. INTRODUCTION AND OVERVIEW

The ASA ACTH12 Digital Thermostat is designed to control Advent AC and/or AC/Heat Pump units. This compact thermostat features user-friendly all-digital communication and a clear, blue LED illuminated screen for easy operation and monitoring of your climate control system.



Figure 1: Front view of the ASA ACTH12 Digital Thermostat. It features a white rectangular casing with rounded corners. The top section shows the 'ADVENT AIR' logo. Below this is a black panel containing a digital display screen. To the left of the screen are three indicator lights labeled 'Fan', 'Cool', and 'Heat'. Below the black panel are five control buttons: a power button with an orange icon, a 'MODE' button, a 'FAN' button, and two arrow buttons (up and down) for temperature adjustment.

2. KEY FEATURES

- Digital communication with the rooftop unit.
- Pleasant blue LCD display for clear visibility.
- Individual LED indicators for Fan, Cool, and Heat modes.
- Auto/On fan operation settings.
- Temperature display in Fahrenheit or Celsius.

3. PACKAGE CONTENTS

Upon opening the package, ensure all items are present:

- ASA ACTH12 Digital Thermostat
- Temperature Sensor
- Mounting Hardware (typically included, though not explicitly listed, it's implied for wall mount)
- User Manual (this document)

4. INSTALLATION AND SETUP

Installation of the ACTH12 thermostat requires basic electrical knowledge. If you are unsure, consult a qualified technician.

1. **Power Disconnection:** Before beginning any installation, ensure that power to the AC/Heat Pump unit is completely disconnected at the main power source to prevent electrical shock.
2. **Mounting Location:** Select a central location on an interior wall, away from direct sunlight, drafts, or heat sources that could affect temperature readings. The thermostat is designed for wall mounting.
3. **Wiring:** The ACTH12 uses wired connectivity and digital communication with the rooftop unit. Carefully follow the wiring diagram provided with your specific Advent AC/Heat Pump unit. Connect the thermostat wires to the corresponding terminals. Ensure all connections are secure. The thermostat operates on AC/DC power.
4. **Temperature Sensor:** Install the included temperature sensor according to the instructions provided with your AC/Heat Pump unit. This sensor is crucial for accurate temperature readings.
5. **Mounting:** Secure the thermostat to the wall using the appropriate mounting hardware.
6. **Power Restoration:** Once all connections are secure and the thermostat is mounted, restore power to the AC/Heat Pump unit.
7. **Initial Power-Up:** The thermostat display should illuminate. If not, recheck power connections.

5. OPERATION

The ACTH12 thermostat features intuitive button controls and a digital display.

5.1. Control Buttons

- **Power Button ():** Press to turn the thermostat and the connected HVAC unit On or Off.
- **MODE Button:** Press to cycle through available operating modes:
 - **Cool:** Activates the air conditioning. The 'Cool' LED will illuminate.
 - **Heat:** Activates the heating system (for heat pump units). The 'Heat' LED will illuminate.
 - **Off:** Turns off both heating and cooling functions.
- **FAN Button:** Press to select fan operation:
 - **Auto:** The fan runs only when the heating or cooling system is active.
 - **On:** The fan runs continuously, regardless of heating or cooling activity. The 'Fan' LED will illuminate when the fan is

running.

- **Up (▲) / Down (▼) Buttons:** Use these buttons to adjust the desired temperature setting.

5.2. Display and Indicators

- **Digital Display:** Shows the current room temperature and the set temperature. The display is a blue LED for clear visibility.
- **Mode LEDs:** Small indicator lights next to 'Fan', 'Cool', and 'Heat' illuminate to show the currently active mode.
- **Temperature Unit:** The thermostat can display temperature in either Fahrenheit or Celsius. Refer to your specific unit's advanced settings or installation guide for instructions on how to switch between these units, if applicable.

6. MAINTENANCE

The ASA ACTH12 Digital Thermostat requires minimal maintenance.

- **Cleaning:** Periodically wipe the thermostat's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure no liquid enters the unit.
- **Airflow:** Ensure that the area around the thermostat is clear of obstructions to allow for accurate temperature sensing.

7. TROUBLESHOOTING

If you encounter issues with your ACTH12 thermostat, try the following steps:

- **No Display/No Power:**
 - Check the main power supply to your AC/Heat Pump unit.
 - Verify all wiring connections to the thermostat are secure.
 - Ensure the power button on the thermostat is pressed to the 'On' position.
- **Incorrect Temperature Reading:**
 - Ensure the temperature sensor is properly installed and connected.
 - Check for drafts, direct sunlight, or heat sources near the thermostat that could affect its reading.
- **Unit Not Responding to Commands:**
 - Confirm the thermostat is in the correct mode (Cool or Heat).
 - Check the wiring connections between the thermostat and the rooftop unit.
 - Cycle the power to the AC/Heat Pump unit at the main breaker, wait 30 seconds, then restore power.

If problems persist after attempting these steps, contact ASA Electronics customer support or a qualified HVAC technician.

8. SPECIFICATIONS

Specification	Detail
Brand	ASA Electronics
Model Number	ACTH12
Color	White
Controller Type	Push Button
Temperature Control Type	Digital

Specification	Detail
Specific Uses	Heat Pump, AC
Connectivity Technology	Wired
Power Source	AC/DC
Voltage	24 Volts
Display Type	Digital (Blue LED)
Backlight	Yes
Mounting Type	Wall Mount
Item Weight	1.6 ounces
Product Dimensions	11 x 4 x 1 inches
Included Components	Temperature Sensor
UPC	681787017841

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your ASA ACTH12 Digital Thermostat, please contact ASA Electronics directly. Refer to the product packaging or the manufacturer's official website for the most current contact details and warranty terms.

Manufacturer: ASA Electronics

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question