

2gig 2GIG-STZ-1

2GIG Z-Wave 700 Programmable Thermostat (Model 2GIG-STZ-1) User Manual

Model: 2GIG-STZ-1 | Brand: 2GIG

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your 2GIG Z-Wave 700 Programmable Thermostat, Model 2GIG-STZ-1. This device allows for remote control of your heating and air conditioning systems via a Z-Wave network, in addition to direct control from the thermostat unit.

The 2GIG-STZ-1 thermostat is compatible with most modern HVAC systems, including standard Gas/Electric (2-stage heating, 2-stage cooling) and Heat Pump systems (3-stage heating, 2-stage cooling), with support for humidifiers and dehumidifiers.



Figure 1: Front view of the 2GIG Z-Wave 700 Programmable Thermostat, displaying current temperature, fan status, and time.

Key Features:

- **Z-Wave Control:** Seamless integration with smart home systems for remote access.
- **Versatile Compatibility:** Supports standard gas/electric, heat pump, and humidifier/dehumidifier systems.
- **Easy Installation:** Designed for straightforward replacement of existing thermostats.
- **Dual Power Source:** Operates on 4 AA batteries or 24VAC power from your HVAC system.
- **Clear Display:** Large, easy-to-read LCD for temperature control and monitoring.

2. SAFETY INFORMATION

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

- **Electrical Safety:** Always turn off power to the HVAC system at the circuit breaker before installing or servicing the thermostat.
- **Voltage Compatibility:** This thermostat is designed for 24VAC systems only. **It is NOT compatible with 120/240 VAC systems.**
- **Battery Installation:** If powering the thermostat via 24VAC, do not install AA batteries. Batteries are

for backup power only if 24VAC is not available or desired.

- **Professional Installation:** If you are unsure about any part of the installation process, consult a qualified HVAC technician.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 2GIG Z-Wave 700 Programmable Thermostat (Model 2GIG-STZ-1)
- 4 x AA Batteries
- Mounting Hardware (screws and wall anchors)
- Installation Manual (this document)
- Quick Start Guide

4. INSTALLATION

4.1. Preparing for Installation

1. Turn off power to your heating and cooling system at the main circuit breaker.
2. Remove your old thermostat's cover. Take a picture of the wiring connections for reference.
3. Label each wire with the corresponding terminal letter from your old thermostat.
4. Disconnect the wires and remove the old thermostat's mounting plate.

4.2. Mounting the Back Panel

The back panel of the 2GIG-STZ-1 thermostat serves as the mounting base and wiring terminal.

1. Feed the wire cable from the wall through the access hole in the new mounting plate.
2. Use the provided wall anchors and two Phillips screws to secure the back panel to the wall.
3. Ensure the back panel is level for proper aesthetic alignment.



Figure 2: Illustration of mounting the back panel, showing wire access and screw locations.

4.3. Wiring the Thermostat

Connect the labeled wires to the corresponding terminals on the thermostat's back panel. Refer to your old thermostat's wiring diagram and the labels you made. The 2GIG-STZ-1 supports the following configurations:

- **Standard Gas/Electric HVAC:** Up to 2-stage heating, 2-stage cooling.
- **Heat Pump HVAC:** Up to 3-stage heating, 2-stage cooling.
- **Humidifier/Dehumidifier Support:** Dedicated terminals available.

For 24VAC power, ensure both "R" and "C" wires are connected. If a "C" wire is not available, the thermostat can be powered by 4 AA batteries, but it will not repeat Z-Wave signals in your network.

4.4. Attaching the Front Panel

Once wiring is complete, attach the thermostat's front panel to the mounted back panel.

1. Align the front panel with the back panel.
2. Gently press the front panel onto the back panel until it snaps securely into place around all edges.

Mount the thermostat back panel on the wall (See Figure 4).

1. Feed the wire cable through the access hole in the mounting plate.
2. Use the two (2) wall anchors and two (2) Phillips screws (provided) to mount the back panel.
3. Level as needed.

Figure 4. Mounting the Back Panel

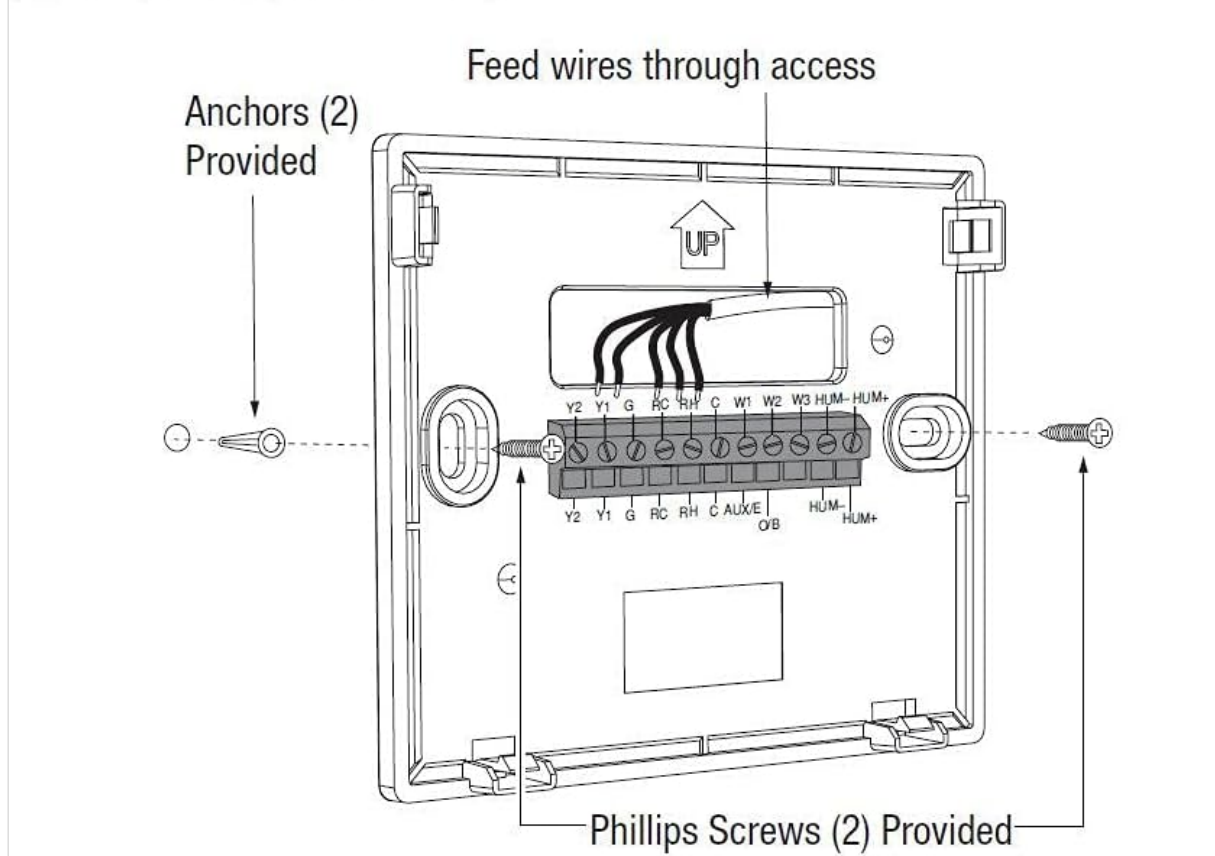


Figure 3: Illustration of attaching the front panel to the back panel, showing the snap-together mechanism.

After the front panel is attached, restore power to your HVAC system at the circuit breaker.

5. OPERATING INSTRUCTIONS

5.1. Powering the Thermostat

The thermostat can be powered by 24VAC from your HVAC system (if "R" and "C" wires are connected) or by four (4) AA batteries. If 24VAC is supplied, batteries are not required for operation but can serve as a backup. If only battery-powered, the thermostat will not function as a Z-Wave repeater.

5.2. Basic Controls

The thermostat features a clear LCD display and intuitive buttons for control:

- **FAN Button:** Cycles through fan modes (Auto, On).
- **MODE Button:** Cycles through system modes (Heat, Cool, Auto, Off, Em Heat).
- **Up/Down Arrows:** Adjusts the temperature setpoint.

5.3. Adjusting Temperature

Press the **Up** or **Down** arrow buttons to increase or decrease the desired temperature setpoint. The display will show the new setpoint temporarily.

5.4. Z-Wave Network Integration

To integrate the thermostat into your Z-Wave network, refer to your Z-Wave hub's instructions for adding new devices. The 2GIG-STZ-1 is a Z-Wave 700 series device, offering enhanced range and battery life. Once paired, you can control the thermostat remotely via your Z-Wave smart device or hub interface. *Note:* For optimal Z-Wave performance and to function as a Z-Wave repeater, the thermostat should be powered by 24VAC.

6. MAINTENANCE

6.1. Cleaning the Thermostat

To clean the thermostat, gently wipe the exterior with a soft, damp cloth. Do not use abrasive cleaners, solvents, or spray cleaners directly onto the thermostat, as this may damage the unit or its electronic components.

6.2. Battery Replacement

If your thermostat is battery-powered, replace the four (4) AA batteries when the low battery indicator appears on the display. Ensure to use fresh, high-quality alkaline batteries. If the thermostat is 24VAC powered, battery replacement is not typically required for operation, but batteries can be installed for backup power.

1. Carefully remove the front panel of the thermostat from the back panel.
2. Remove the old AA batteries.
3. Insert four new AA batteries, ensuring correct polarity (+/-).
4. Reattach the front panel to the back panel until it snaps securely.

7. TROUBLESHOOTING

If you encounter issues with your 2GIG-STZ-1 thermostat, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Thermostat has no power/blank display.	No 24VAC power; dead batteries; incorrect wiring.	Check circuit breaker for HVAC system. Replace AA batteries if battery-powered. Verify "R" and "C" wire connections.
HVAC system not responding to thermostat.	Incorrect wiring; system mode set to "Off"; Z-Wave communication issue.	Double-check wiring. Ensure system mode is set to "Heat", "Cool", or "Auto". Re-pair with Z-Wave network if controlling remotely.
Temperature swing is too wide.	Thermostat differential settings.	Consult the advanced settings menu (if available) or your Z-Wave controller for options to adjust temperature differential. This setting controls how far the temperature deviates from the setpoint before the system activates.

Problem	Possible Cause	Solution
Cannot connect to Z-Wave network.	Thermostat too far from hub; interference; incorrect pairing procedure.	Ensure thermostat is within range of the Z-Wave hub or a repeater. Follow Z-Wave hub's specific instructions for inclusion/exclusion. Ensure thermostat is 24VAC powered to act as a repeater.

8. SPECIFICATIONS

Feature	Detail
Model Number	2GIG-STZ-1 (also known as 2GIG-STZ1-345)
Compatibility	24VAC 3H/2C non-heat pump/heat pump systems with humidifier/dehumidifier support. Not compatible with 120/240 VAC systems.
Room Temperature Measurement Scale	Fahrenheit / Celsius (user selectable)
Room Temperature Range	32 to 122 degrees F (0 to 50 degrees C)
Temperature Accuracy	+/- 1 degrees F (0.5 degrees C)
Heat Set Point Range	32 - 90 degrees F (0 - 32 degrees C)
Cool Set Point Range	61 - 122 degrees F (16 - 50 degrees C)
Setting Resolution	1 degrees F (0.5 degrees C)
Fan Control	Auto/On
Power Supply	AC: 18-26VAC 60Hz (R and C); 4x AA size battery (6VDC)
Operating Temperature Range	32 to 122 degrees F (0 to 50 degrees C)
Operating Humidity	10-90 percent Non-Condensing
Dimensions (H x W x D)	5.75 x 4.5 x 1 in (14.6 x 11.4 x 2.5 cm)
Weight	1.06 lbs (0.48 kg)
Connectivity	Z-Wave (700 series)
Display Type	LCD with Backlight

9. WARRANTY INFORMATION



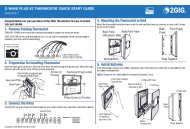
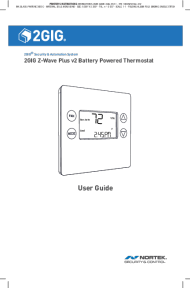

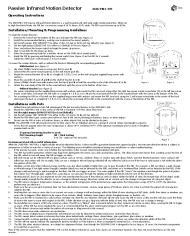
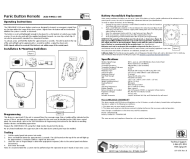
The 2GIG Z-Wave 700 Programmable Thermostat (Model 2GIG-STZ-1) comes with a **Limited 1-Year Warranty** from the manufacturer. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the warranty documentation included with your product or contact 2GIG customer support.

10. CUSTOMER SUPPORT

For further assistance, technical support, or warranty inquiries, please contact 2GIG customer support. You may also refer to the support resources provided by your Z-Wave hub manufacturer for integration-specific questions.

Note: Manufacturer support policies may vary. Access to detailed manuals or direct support might be restricted to authorized dealers or installers in some cases.

Related Documents - 2GIG-STZ-1

 	2GIG Security and Automation Products Catalog Comprehensive catalog of 2GIG security and home automation products, including control panels, keypads, sensors, cameras, and Z-Wave devices. Features detailed specifications and product information.
	2GIG Z-Wave Plus V2 Thermostat (2GIG-STZ-1) Quick Start Guide Quick start guide for installing and setting up the 2GIG Z-Wave Plus V2 Thermostat (Model 2GIG-STZ-1), covering wiring, mounting, Z-Wave pairing, and system mode configuration.
	2GIG Z-Wave Plus v2 Battery Powered Thermostat User Guide Explore the 2GIG Z-Wave Plus v2 Battery Powered Thermostat with this comprehensive user and installation guide. Learn about smart home integration, HVAC system compatibility, setup, and operation from Nortek Security & Control.
	2GIG Z-Wave Plus v2 Battery Powered Thermostat User Guide Comprehensive user guide for the 2GIG Z-Wave Plus v2 Battery Powered Thermostat, detailing installation, system setup, operation modes, Z-Wave integration, advanced settings, and specifications for smart home automation.
	2GIG-PIR1-345 Passive Infrared Motion Detector Installation and Operating Instructions Comprehensive guide for the 2GIG-PIR1-345 Passive Infrared Motion Detector, covering installation, setup, pet immunity features, testing, environmental considerations, and technical specifications.
	2GIG-PANIC1-345 Panic Button Remote Operating Instructions Operating instructions, installation guidelines, programming, testing, and battery replacement for the 2GIG-PANIC1-345 panic button remote. Includes specifications and FCC compliance information.

