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Johnson Controls SIO2-10000

GLAS Smart Thermostat User Manual

By Johnson Controls

INTRODUCTION

The GLAS smart thermostat by Johnson Controls is designed to provide optimal comfort and energy efficiency in your home. Featuring a vibrant translucent OLED touchscreen, it intelligently manages your indoor climate while monitoring air quality. This manual provides comprehensive instructions for setting up, operating, and maintaining your GLAS thermostat.



Figure 1: Front view of the GLAS Smart Thermostat, displaying temperature and cooling status.

SETUP AND INSTALLATION

Before beginning installation, ensure you have reviewed the full installation manual for detailed wiring diagrams and safety precautions. A PDF version of the installation manual is available [here](#).

Compatibility

The GLAS thermostat is compatible with various HVAC configurations, including conventional systems (up to 2H/2C), heat pumps (up to 2H/2C/2 Aux Heat), gas heat, oil heat, electric heat, and ground-, air-, and water-source heat pumps. It also supports dual-fuel systems.

What's Included

- GLAS thermostat
- Quick start guide and instructions
- Paintable back plate
- (2) 1.5-inch screws
- (2) 1-inch screws
- (4) drywall anchors
- C-wire adapter

- Air seal
- Wiring stickers

Wiring

The GLAS thermostat requires a 24-volt power source. Ensure power to your HVAC system is turned off at the circuit breaker before handling any wiring. The thermostat includes a C-wire adapter for systems without a common wire.



Figure 2: GLAS Smart Thermostat installed on a wall, showcasing its sleek design.

OPERATING YOUR THERMOSTAT

The GLAS thermostat features an intuitive translucent OLED touchscreen for easy operation. You can control temperature, fan settings, and system modes directly from the device or via the mobile app.

Temperature Control

Adjust the desired temperature by tapping the up or down arrows on the touchscreen. The current temperature and target temperature will be displayed clearly.

System Modes

The GLAS thermostat supports the following system modes:

- **Auto:** Automatically switches between heating and cooling to maintain your set temperature.
- **Heat:** Only heats your home to the set temperature.
- **Cool:** Only cools your home to the set temperature.
- **Off:** Turns off your HVAC system.

Fan Settings

You can set the fan to:

- **Auto:** The fan runs only when heating or cooling is active.

- **On:** The fan runs continuously.

Mobile App Connectivity

Control your GLAS thermostat from anywhere using the free GLAS by JCI smart thermostat mobile app, available for both iOS and Android devices. The app allows you to tweak temperature, adjust settings, and monitor air quality remotely. You can also control multiple GLAS thermostats in different locations with a single app.

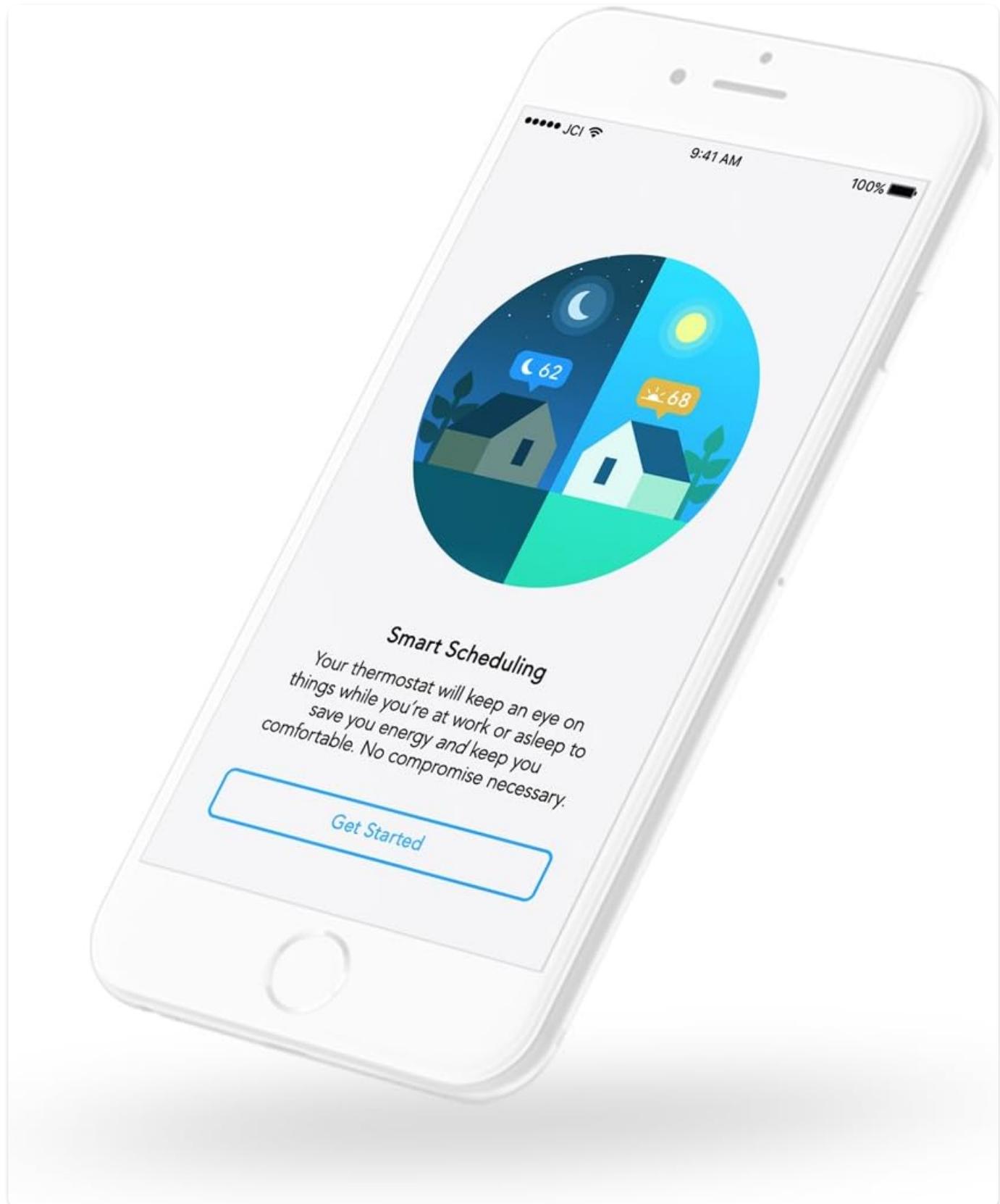


Figure 3: Screenshot of the GLAS mobile app, showing smart scheduling options.

AIR QUALITY MONITORING

The GLAS thermostat continuously monitors indoor air quality, providing data on humidity, total VOCs (Volatile Organic Compounds), and equivalent CO₂ levels. It also reports outdoor air quality, including allergens, air quality index, and UV index, to help you make informed decisions about your environment.



Figure 4: The GLAS thermostat screen showing a graph of energy savings over the past 7 days.

SCHEDULING

The GLAS thermostat offers flexible scheduling options to optimize comfort and energy savings. You can program your own 7-day schedule with multiple events per day, or allow the integrated occupancy sensor to automatically create a comfortable space when you are at home.

SETTINGS OVERVIEW

Access the settings menu on your GLAS thermostat to customize various aspects of its operation. Key settings include:

- **General:** Adjust thermostat name, location info, Wi-Fi settings, passcode, date & time, and pairing key.
- **Comfort:** Fine-tune temperature preferences.
- **Equipment:** Configure heating and cooling settings, view wiring details, test equipment, and set safety temperatures.
- **Notifications:** Manage alerts and reminders.
- **Vacation:** Set specific modes for when you are away.
- **Support:** Access support information.

Voice Control

The GLAS thermostat integrates with popular voice assistants for convenient control. It works with Amazon Alexa and Google Assistant, allowing you to adjust settings using voice commands.

MAINTENANCE

The GLAS thermostat is designed for minimal maintenance. Keep the screen clean with a soft, dry cloth. Remote software updates ensure your thermostat always has the latest features and improvements.

TROUBLESHOOTING

If you encounter any issues with your GLAS thermostat, consider the following common solutions:

- **No Power/Screen Off:** Ensure the circuit breaker for your HVAC system is on and the thermostat is properly connected to a 24-volt power source. Check wiring connections.
- **Incorrect Temperature Readings:** Verify the air seal is properly installed behind the thermostat to prevent drafts from affecting sensor readings.
- **Wi-Fi Connectivity Issues:** Check your home Wi-Fi network. Ensure the thermostat is within range of your router. Re-enter Wi-Fi credentials in the General settings.
- **App Not Connecting:** Ensure your mobile device has an active internet connection. Verify the thermostat is connected to Wi-Fi. Restart the app or your mobile device.
- **System Not Responding:** Navigate to the Equipment settings and use the "Test equipment" function to diagnose issues. If problems persist, consult the full installation manual or contact support.

SPECIFICATIONS

Feature	Detail
Brand	Johnson Controls
Model Name	GLAS

Controller Type	Amazon Alexa, Google Assistant, Vera
Special Feature	Translucent OLED Touchscreen
Specific Uses For Product	Heat Pump
Temperature Control Type	Digital/Automatic with Remote Control
Connectivity Technology	Wi-Fi
Power Source	Electric (24 Volts)
Item Weight	0.5 Pounds (8 ounces)
Product Dimensions	1.18 x 5.51 x 5 inches
Material	Glass
Display Type	Manual (OLED Touchscreen)
Control Method	Touch, Voice
Mounting Type	Wall Mount
Batteries	1 Lithium Ion (included)
Certifications	FCC, UL

WARRANTY AND SUPPORT

Warranty Information

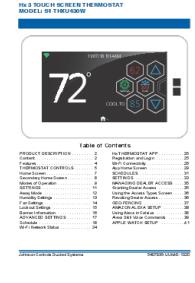
The GLAS Smart Thermostat comes with a 2-year limited manufacturer's warranty, covering parts only (no labor). For more detailed information regarding the warranty, please visit the official GLAS website: <https://glas.johnsoncontrols.com>.

Customer Support

For technical assistance, troubleshooting, or any other inquiries, please refer to the support section within your GLAS thermostat's settings or visit the Johnson Controls support website. Remote software updates are provided to ensure your GLAS thermostat continues to improve over time.

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Related Documents - S102-10000

	<p><u>Johnson Controls T8590 Residential Digital Thermostat: Owner's Manual & Installation Guide</u></p> <p>Explore the Johnson Controls T8590 Residential Digital Thermostat. This owner's manual and installation guide details setup, features like high-resolution touch screen and humidity control, troubleshooting, and technical specifications for optimal home climate management.</p>
	<p><u>Hx 3 Touch Screen Thermostat User Information Manual</u></p> <p>This user information manual provides detailed instructions and guidance for the Johnson Controls Hx 3 Touch Screen Thermostat (Model: S1-THXU430W), covering installation, features, operation, app connectivity, and settings.</p>
	<p><u>TEC3000 Series Wireless Economizer Thermostat Controllers: Installation Guide</u></p> <p>Comprehensive installation instructions for the Johnson Controls TEC3000 Series Wireless Single- or Two-Stage Economizer Thermostat Controllers, covering applications, location, wiring, setup, adjustments, and troubleshooting.</p>
	<p><u>TEC3000 Series Thermostat Controllers Installation Instructions Johnson Controls</u></p> <p>Installation instructions for the Johnson Controls TEC3000 Series On/Off or Floating Fan Coil and Zoning Thermostat Controllers with Dehumidification Capability. Covers installation, wiring, setup, and troubleshooting.</p>
	<p><u>TEC3000 Series Wireless Thermostat Controller Installation Guide</u></p> <p>Comprehensive installation guide for Johnson Controls TEC3000 Series Wireless Thermostat Controllers, featuring dehumidification capabilities for fan coil and VAV systems. Includes wiring, setup, and configuration details.</p>
	<p><u>Johnson Controls A421 Series Electronic Temperature Controls with Off-Cycle Defrost Installation Instructions</u></p> <p>Comprehensive installation guide for Johnson Controls PENN A421 Series Electronic Temperature Controls, featuring off-cycle defrost functionality. Covers product overview, applications, dimensions, mounting, wiring, setup, adjustments, troubleshooting, and technical specifications.</p>