Honeywell Jade Controller Manual

Honeywell

JADE™ Economizer Module
(MODEL W7220)

INSTALLATION INSTRUCTIONS

This document describes wiring, power up, basic troubleshooting, and common installation issues for the JADE™ Economizer Module (Model W7220). For further information on mounting and operation, refer to Honeywell document 63-2700.

BEFORE INSTALLATION

Review the following before installing the The W7220:

Electrical

Rated Voltage: 20 to 30 Vac RMS; 50/60 Hz

Relay Contact Rating: 30 Vac

IMPORTANT
All inputs and outputs must be Class 2 wiring.

Inputs

A Mixed air (MA) analog sensor is required on all W7220 units; either an OA (Outdoor Air) sensor for dry bulb change over or an OA Sylkbus sensor for outdoor enthalpy change over is required in addition to the MA sensor. An additional Return Air (RA) Sylkbus sensor can be added to the system for differential enthalpy changeover.

DCV (CO_2) Sensor (C7232): 2-10 Vdc control signal; minimum impedance >50k ohm.

Outputs

Actuator signal: 2-10 Vdc; minimum actuator impedance is 2k ohm

Exhaust fan and AUX: Contact closure (24 Vac)

24 Vac Out: 100 VA Class 2 transformer

When Installing This Product

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check ratings given in instructions and on the product to ensure the product is suitable for your application.
3. Installer must be a trained, experienced service technician.
4. After installation is complete, check out product operation as provided in these instructions.

INSTALLATION AND SETUP

The Economizer module may be mounted in any orientation. However, mounting in the orientation shown above permits proper viewing of the LCD display and use of the keypad.

CE cULus E4436   62-0331-03

Honeywell Jade Controller Manual is an essential resource for anyone looking to optimize their experience with Honeywell's advanced building management systems. The Jade Controller Series is designed to enhance comfort and energy efficiency in commercial and residential environments. Understanding how to effectively utilize this controller can lead to improved operational performance, reduced energy consumption, and increased user satisfaction. This article aims to provide a comprehensive guide to the Honeywell Jade Controller, covering its features, setup instructions, troubleshooting tips, and more.

Overview of the Honeywell Jade Controller

The Honeywell Jade Controller is a versatile and sophisticated device used in the management of HVAC (Heating, Ventilation, and Air Conditioning) systems. It is part of Honeywell's suite of building management solutions and is designed to meet the needs of various applications, from small buildings to large, complex facilities.

Key Features

The Honeywell Jade Controller offers a range of features that make it a preferred choice for many building managers:

- **Flexible Connectivity:** The Jade Controller supports multiple communication protocols, including BACnet and Modbus, allowing for seamless integration with existing systems.

- **User-Friendly Interface:** The device comes with an intuitive touchscreen interface, making it easy for users to navigate and adjust settings.

- **Energy Monitoring:** It provides real-time energy monitoring, helping users track consumption patterns and identify opportunities for savings.

- **Advanced Control Algorithms:** The controller uses advanced algorithms to optimize HVAC performance, ensuring both comfort and efficiency.

- **Remote Access:** With the right configuration, users can access and control the system remotely, enhancing convenience and management capabilities.

Setting Up the Honeywell Jade Controller

Setting up the Honeywell Jade Controller requires a systematic approach to ensure all features are utilized effectively. Below is a step-by-step guide to assist users through the installation and configuration process.

Installation Steps

1. Gather Necessary Tools and Materials:

- Screwdriver

- Power supply

- Ethernet cables (if applicable)

- Installation manual

2. Mount the Controller:

- Choose an appropriate location for the controller, ensuring it is easily accessible and away from direct sunlight or extreme temperatures.

- Securely mount the controller to the wall or desired surface using screws and anchors.

3. Connect Power Supply:

- Connect the controller to the power supply following the specifications provided in the installation manual.

- Ensure that the voltage and current ratings match the requirements of the controller.

4. Establish Communication Links:

- If applicable, connect the controller to the building's network using Ethernet cables.

- Configure the communication settings to match those of the existing building management system.

5. Power On the Controller:

- Once all connections are made, power on the controller and wait for it to boot up completely.

Initial Configuration

After installation, the next step is to configure the Honeywell Jade Controller:

1. Access the User Interface:

- Use the touchscreen interface to navigate through the initial setup prompts.

2. Set Language and Time Zone:

- Choose the preferred language and set the correct time zone for accurate scheduling and reporting.

3. Configure HVAC Settings:

- Input the specifications of the HVAC system, including the number of zones, temperature settings, and operational schedules.

4. Network Configuration:

- If connected to a network, configure the IP address settings to ensure the controller can communicate with other devices.

5. Save Settings:

- Once all settings are configured, ensure to save the changes before exiting the setup menu.

Using the Honeywell Jade Controller

Once set up, the Honeywell Jade Controller provides a wealth of functionality that can be customized to meet specific needs.

Basic Operations

- Temperature Control: Users can easily adjust temperature settings through the touchscreen interface. The system allows for both manual adjustments and scheduling based on occupancy.
- Energy Monitoring: Regularly check energy consumption data through the controller's interface to identify trends and areas for improvement.
- Alerts and Notifications: Set up alerts for maintenance reminders, temperature fluctuations, or system malfunctions to ensure proactive management.

Advanced Features

For users looking to leverage the full potential of the Honeywell Jade Controller, the following advanced features are available:

- Custom Scheduling: Program schedules for different zones based on occupancy patterns to optimize energy use.
- Remote Monitoring: Utilize mobile applications or web interfaces to monitor and control the system from anywhere.
- Integration with Other Systems: Connect the Jade Controller with lighting, security, and other building systems for a comprehensive management approach.

Troubleshooting Common Issues

Even with proper installation and configuration, users may encounter issues with their Honeywell Jade Controller. Here are some common problems and solutions:

Common Issues

1. No Power:

- Check the power supply connections and ensure that the outlet is functioning.

2. Communication Errors:

- Verify that the network settings are correct and that all cables are securely connected.

3. Unresponsive Touchscreen:

- Restart the controller and ensure there is no physical obstruction to the touchscreen.

4. Inaccurate Temperature Readings:

- Ensure the temperature sensors are correctly calibrated and not obstructed by furniture or other objects.

When to Seek Professional Help

If issues persist after troubleshooting, it may be time to contact Honeywell support or a certified technician. Problems related to communication protocols or complex configurations often require professional intervention.

Conclusion

The **Honeywell Jade Controller Manual** serves as a vital guide for users seeking to maximize the efficiency and effectiveness of their building management systems. By following the setup instructions, utilizing the various features, and troubleshooting common issues, users can ensure their HVAC systems operate smoothly and maintain optimal comfort levels. Whether for commercial or residential applications, mastering the Honeywell Jade Controller is a key step towards enhanced energy

management and user satisfaction.

Frequently Asked Questions

What is the Honeywell Jade Controller used for?

The Honeywell Jade Controller is primarily used for process control and automation in various industrial applications, allowing for efficient monitoring and management of systems.

Where can I find the Honeywell Jade Controller manual?

The Honeywell Jade Controller manual can typically be found on Honeywell's official website or through authorized distributors. It's also advisable to check the support or documentation section for downloadable PDFs.

What are the key features of the Honeywell Jade Controller?

Key features of the Honeywell Jade Controller include advanced control algorithms, user-friendly interface, remote access capabilities, and integration with various field devices and protocols.

How do I reset the Honeywell Jade Controller?

To reset the Honeywell Jade Controller, refer to the manual for specific instructions, which usually involves navigating to the settings menu and selecting the reset option.

Can I customize the settings on the Honeywell Jade Controller?

Yes, the Honeywell Jade Controller allows for extensive customization of settings to meet specific operational needs, including tuning control parameters and configuring alarm settings.

What troubleshooting steps are available in the Honeywell Jade

Controller manual?

The manual includes troubleshooting steps such as checking power supply, verifying wiring connections, and reviewing error codes displayed on the controller to diagnose issues.

Is there a software application available for the Honeywell Jade Controller?

Yes, Honeywell provides software applications for the Jade Controller, allowing for programming, monitoring, and data logging functionalities to enhance user interaction with the controller.

What protocols does the Honeywell Jade Controller support?

The Honeywell Jade Controller supports various communication protocols, including Modbus, Ethernet/IP, and others, enabling integration with a wide range of industrial systems and devices.

Honeywell Jade Controller Manual

Honeywell - 知乎
Honeywell 20

Honeywell ...
Honeywell 25 OK Honeywell Pro） …

Honeywell - 知乎
20T A PC 20T-30℃60KG。 …

/2021 ...
Oct 28, 2021 · 3 4 6 Honeywell …

PTM7950SP - 知乎

霍尼韦尔PTM7950SP honeywell honeywell ...

 - 知乎
[1] PS nrr38 NRR 33 33+36 reuseable（可重复使用） ...

 - 知乎
7783 ...

Honeywell - 知乎
 ...

? - 知乎
Honeywell霍尼韦尔QD30 Quiet 3M 1270 SNR25dB） FH0301 PU ( ) Honeywell霍尼韦尔SMF-30 SmartFit 3M 318 ...

 HGuide n380 ...
HGuide n380 ITAR ECCN 7A994。 Honeywell霍尼韦尔推出的HGUIDE N380惯性/GNSS ... HG1120和HG4930是霍尼韦尔的IMU ...

Honeywell - 知乎
Honeywell 20

Honeywell ...
Honeywell 25 OK Honeywell Pro） ...

Honeywell - 知乎
20T A PC 20T-30℃60KG的 ...

/2021 ...
Oct 28, 2021 · 3 4 6 Honeywell ...

霍尼韦尔PTM7950SP - 知乎
honeywell honeywell ...

 - 知乎
[1] PS nrr38 NRR 33 33+36 reuseable（可重复使用） ...

 - 知乎
7783 ...

Honeywell - 知乎

□□□
...

□□□□? - □□
Honeywell□□□□QD30 Quiet□□□□□□□ 3M 1270 □□□□□□□□□SNR25dB□ □□FH0301 □□□ PU □□ (□□□)
Honeywell□□□□SMF-30 SmartFit□□□□ 3M 318 ...

□□□□□□□□□□□□□□□ HGuide n380□□□□□□□□□ ...
HGuide n380□□ITAR□□□ □□□□□□□□□ECCN□□7A994□ Honeywell□□□□□□□HGUIDE N380□□/GNSS□□□□□
□□□□□ ... HG1120□HG4930□□□□□□IMU ...

Unlock your Honeywell Jade Controller's full potential with our comprehensive manual. Learn how to optimize settings and troubleshoot issues. Discover how!

[Back to Home](#)