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> Jectse TCP/IP 8-Channel Relay Controller (Model: Jectses23f6yobwg-02) User Manual

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Jectse TCP/IP 8-Channel Relay Controller User Manual

Model: Jectses23f6yobwg-02

1. PRODUCT OVERVIEW

The Jectse TCP/IP 8-Channel Relay Controller is a versatile module designed for remote control applications. It features an RJ45 Ethernet port for TCP/IP communication, allowing web-based access and control of its 8 independent relay channels. This module supports external control outputs and provides status feedback for each relay. It is suitable for various automation and security systems.



8-Channel Relay Controller

Image 1.1: The Jectse TCP/IP 8-Channel Relay Controller.

2. FEATURES

- **RJ45 TCP/IP Ethernet Port:** Allows network connectivity with configurable IP address.
- **Web Server Control:** Enables remote access and individual relay control via a web browser.
- **8 Independent Relay Channels:** Each channel rated for 250V/AC 10A.
- **8 External Control Outputs:** Active low level outputs for connecting switches or sensors.
- **Remote Access Protocol:** Provides a protocol for re-engineering, allowing control via Android, tablet, or Windows systems when connected to a router.
- **Status Feedback:** Displays the current operational status of each relay.
- **Reset Function:** Short press for module reset; long press to restore factory settings.
- **485 Network Support:** Compatible with 485 networks.
- **Internal Circuit Protection:** Features an optocoupler to prevent damage from external voltage surges.

Supports Internal circuit protection, with optocoupler to prevent from external voltage surge



Image 2.1: The controller features internal circuit protection with an optocoupler.

3. SPECIFICATIONS

Attribute	Value
Brand	Jectse
Model Number	Jectses23f6yobwg-02
Operating Voltage	9V ~ 40V DC
Load Capacity (per channel)	250V/AC 10A
Dimensions	145 x 90 x 40 mm (5.7 x 3.54 x 1.57 inches)
Item Weight	240 g
Manufacturer	Jectse
Country of Origin	China



Image 3.1: Dimensions of the Jectse TCP/IP 8-Channel Relay Controller.

4. SETUP

1. **Unpacking:** Carefully remove the relay controller and its protective case from the packaging.
2. **Mounting:** The module can be mounted using the integrated clips on the bottom. Ensure a stable and secure installation location.



Image 4.1: Bottom view showing mounting clips.

- 3. Power Connection:** Connect a DC power supply (9V to 40V) to the designated power input terminals (labeled '12v' or similar). Ensure correct polarity to avoid damage.



Image 4.2: Top view showing power input and other connections.

4. **Ethernet Connection:** Connect a standard RJ45 Ethernet cable from your network router or switch to the Ethernet port on the module.



Image 4.3: Angled view showing Ethernet port and relay terminals.

5. **Relay Connections:** Connect the devices you wish to control to the 8 relay output channels. Each channel supports loads up to 250V/AC 10A. Refer to the module's labeling for specific common (COM), normally open (NO), and normally closed (NC) terminals for each relay.
6. **External Control Outputs:** If utilizing external switches or sensors, connect them to the 8 external control output terminals. These outputs operate with an active low level.
7. **485 Network Connection:** If integrating into a 485 network, connect the appropriate data cables to the dedicated 485 terminals.

5. OPERATING INSTRUCTIONS

1. **Initial Access:** Once powered and connected to the network, the module can be accessed via its built-in web server. The default IP address may need to be discovered using network scanning tools or by consulting the device's specific documentation.
2. **Web Interface:** Open a web browser on a computer or mobile device connected to the same network and enter the module's IP address. The web interface will allow you to monitor the status of each relay and control them individually.
3. **IP Configuration:** The IP address of the module can be modified through the web interface to suit your network requirements.
4. **Remote Control:** For remote access outside your local network, configure your router to forward the

necessary ports to the module's IP address. A protocol is provided for re-engineering, enabling control via Android, tablet, or Windows systems from anywhere with network access.

5. **Status Feedback:** The web interface provides real-time status feedback, indicating the current state (on/off) of each relay.
6. **Reset Function:**
 - **Short Press:** Briefly press the reset button to restart the module.
 - **Long Press:** Press and hold the reset button to restore the module to its factory default settings.

6. MAINTENANCE

- Keep the device clean and free from dust accumulation. Use a soft, dry cloth for cleaning.
- Periodically check all cable connections (power, Ethernet, relay, external controls) to ensure they are secure and free from damage.
- Ensure proper ventilation around the module to prevent overheating, especially during continuous operation.

7. TROUBLESHOOTING

- **No Power:**
 - Check the DC power supply connection and ensure it is within the specified 9V-40V range.
 - Verify that the power adapter is functioning correctly.
- **No Network Connection:**
 - Verify the Ethernet cable connection to both the module and your network device (router/switch).
 - Check your router and network settings. Ensure the module's IP address is correct and not conflicting with other devices on your network.
 - Try restarting your router and the relay module.
- **Relay Not Switching:**
 - Confirm that the load connected to the relay channel does not exceed the specified capacity of 250V/AC 10A.
 - Check the wiring to the controlled device for any loose connections or incorrect wiring.
 - Verify that control commands are being sent correctly from the web interface or your custom application.
- **Security Warning:** It is strongly suggested to use the intranet for control instead of external control, as external access may compromise security if not properly secured.

8. SAFETY INFORMATION

- Always ensure the power supply is disconnected before making any wiring changes or performing maintenance on the module.
- Do not exceed the specified load capacity of 250V/AC 10A per relay channel to prevent damage to the module and connected devices.
- The module operates with DC voltage (9V-40V) and controls AC loads. Exercise extreme caution when handling electrical connections to avoid electric shock.
- While the internal circuit protection with optocoupler helps prevent external voltage surges, proper

grounding and additional surge protection for your overall system are highly recommended.

- Install the device in a dry environment, away from moisture, direct sunlight, and extreme temperatures.

9. SUPPORT & WARRANTY

For technical support or any inquiries regarding the Jectse TCP/IP 8-Channel Relay Controller, please contact Jectse customer service through their official website or the retailer from whom you purchased the product.

Warranty information is not explicitly provided in the product details. Please refer to your purchase documentation, the product packaging, or contact the seller directly for specific warranty terms and conditions.