Functional Devices RIBTW2421B-BCIP BACnet IP Relay Device





Functional Devices RIBTW2421B-BCIP BACnet IP Relay Device Instruction Manual

Home » Functional Devices » Functional Devices RIBTW2421B-BCIP BACnet IP Relay Device Instruction

Manual

Manual

Contents

- 1 Functional Devices RIBTW2421B-BCIP BACnet IP Relay Device
- **2 Product Usage Instructions**
- **3 Product Description**
- **4 BACnet Details**
- **5 Configuration Details**
- **6 LED Definitions**
- 7 Reset Pushbutton
- 8 Powering device with 24 Vac
- 9 Documents / Resources
 - 9.1 References
- 10 Related Posts



Functional Devices RIBTW2421B-BCIP BACnet IP Relay Device



Specifications:

• Product Name: BACnet IP Relay Device

• Features: One Binary Output + Override, One Binary Input

Power Input: 24 Vac/dc / 120-277 Vac

Housing: NEMA 1

Product Usage Instructions

Configuration Details:

- 1. This product defaults to DHCP mode when connected to a network.
- 2. Using a Discovery tool, add the device to a network, and make note of the IP Address assigned.
- 3. Open a web browser and type the device's IP Address into the URL bar.
- 4. The product serves three web pages:
 - The main page shows the status of the unit's Binary Input and Binary Output.
 - The second page shows the BACnet Objects and Properties for reading and writing.
 - The third page shows the Network configuration details for DHCP to Static IP mode change.

Relay Override (Local DIP Switch):

Refer to the diagram on the product documentation for detailed instructions on relay override setup.

Reset Pushbutton:

To restore the unit to its defaults, hold the Reset Pushbutton for 5 seconds. The Blue LED will indicate the reset process. Wait for the LED to blink slowly (heartbeat) to confirm reset completion.

Powering Device with 24 Vac:

Use separate transformers for each device or add a diode between devices as shown in the diagram for proper

power connection.

FAQ:

· Q: How do I reset the device to its default settings?

A: Hold the Reset Pushbutton for 5 seconds until the Blue LED blinks rapidly, then stays on briefly. Once the LED blinks slowly again (heartbeat), the device has been successfully reset.

• Q: What should I do if I accidentally connect POE to the RJ45 LAN port?

A: Do not connect POE to the RJ45 LAN port. This connection is for LAN only to avoid damage to the device.

RIBTW2421B-BCIP

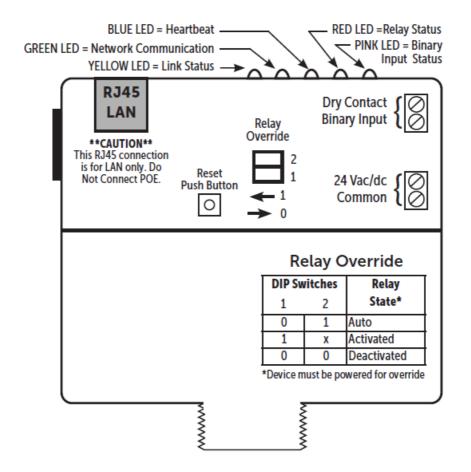
101 Commerce Drive | Sharpsville, IN 46068 800-888-5538 | support@functionaldevices.com

Product Description

BACnet IP Relay Device, One Binary Output + Override, One Binary Input, 24 Vac/dc / 120-277 Vac Power Input, NEMA 1 Housing

BACnet Details

- Device ID will default to 277XXX where XXX is the decimal value of the last octet of the device's MAC address
- Examples:
 - MAC Address − D8:47:8F:23:97:9E Hexadecimal 9E = Decimal 158 Device ID − 277158
 - MAC Address D8:47:8F:23:9F:20 Hexadecimal 20 = Decimal 32 Device ID 277032
- Device ID can be changed with a BACnet configuration tool or on the product's webpage via an internet browser.
- This model utilizes: BO1 (Relay output), BI1 (Dry Contact Binary Input), NP1 (Network Port Object)
- PIC Statement and Datasheet available on website: www.functionaldevices.com



Configuration Details

- This product defaults to DHCP mode when connected to a network.
- Using a Discovery tool, add the device to a network, and make note of the IP Address assigned. Open a web browser and type the device's IP Address into the URL bar.

The product serves three web pages:

- 1. The main page shows the status of the unit's Binary Input and Binary Output.
- 2. The second page shows the BACnet Objects and Properties. From here, properties can be read and written.
- 3. The third page shows the Network configuration details. From here the device can be switched from DHCP to Static IP mode, and the device's address can be changed.

LED Definitions

- Yellow LED Link status (network connected)
- Green LED Network communication
- Blue LED Heartbeat
- Red LED Relay status (Binary Output 1)
- Pink LED Dry Contact Input status (Binary Input 1)

Relay Override (Local DIP Switch)

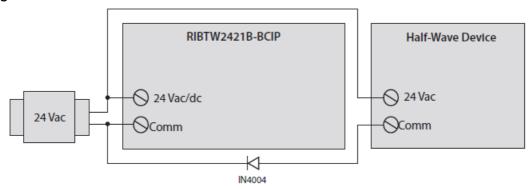
See the diagram on the other side of this sheet.

Reset Pushbutton

- To restore the unit to its defaults, hold the Reset Pushbutton for 5 seconds. The Blue LED will blink rapidly and then stay on for a few seconds. This indicates that the device is resetting.
- When the LED begins to blink slowly again (heartbeat), the device has been Reset.

Powering device with 24 Vac

- When connecting 24 Vac to both the RIB(s) and a half-wave device, damage to device can occur.
- Option 1: Use separate transformers for each device. Option 2: Add diode between devices, see Option 2
- · Note in Diagram Below



• Option 2: Add diode on 24 Vac power (Comm) interconnection between devices. Band on diode faces towards RIB(s).

Documents / Resources



<u>Functional Devices RIBTW2421B-BCIP BACnet IP Relay Device</u> [pdf] Instruction Manual RIBTW2421B-BCIP BACnet IP Relay Device, RIBTW2421B-BCIP, BACnet IP Relay Device, Rel ay Device, Device

References

<u>User Manual</u>

Manuals+, Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.