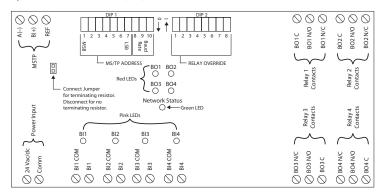
NETWORK COMPATIBLE RELAY

RIBMW24B-44-BC

4.00" Track Mount BACnet® MS/TP Network Relay Device; Four Binary Outputs (20 Amp Relay SPDT + Override); Four Binary Inputs (Dry Contact Binary Inputs), 24 Vac/dc Power Input, Optional End of Line Resistor (EOL) Included.













SPECIFICATIONS

Relays & Contact Type: Four (4) SPDT Continuous Duty Coil Expected Relay Life: 10 million cycles minimum mechanical

Operating Temperature: -30 to 140° F

Humidity Range: 5 to 95% (noncondensing)

Operate Time: 18ms Network Communication: Green LED

Relay Status: Red LED On = Activated Binary Input Status: Pink LED On = Activated

Dimensions: 6.00" L x 4.00" W x 1.34" H Track Mount: MT4-6 Mounting Track Provided

Approvals: UL Listed, UL916, C-UL, CE, RoHS, BTL Certified

Gold Flash: No

Relay Override Switch: DIP Switch Control

Network Media: Twisted Pair 22-24AWG, shielded

recommended

Terminations: Functional Devices product installed at

both ends of the MS/TP network - Use 120 Ω end of line resistors. All other cases - Follow instructions from the device installed at the end of the MS/TP

network.

Polarity: Network is polarity sensitive Baud Rate: 9600, 19200, 38400, 57600, 76800,

115200 (Dip Switch Selectable)

Contact Ratings:

20 Amp Resistive @ 277 Vac 20 Amp Ballast @ 120/277 Vac 16 Amp Electronic Ballast @ 277 Vac (N/O) 10 Amp Tungsten @ 120 Vac (N/O) 1110 VA Pilot Duty @ 277 Vac 770 VA Pilot Duty @ 120 Vac

2 HP @ 277 Vac 1 HP @ 120 Vac

Power Input Ratings:

24 Vac: 400 mA 24 Vdc : 190 mA

BACnet® Details:

- MS/TP Address & Baud Rate must be set prior to power up via DIP switches.
- Device ID will default to 277XXX where XXX is the MS/TP Address. **Examples**:

MS/TP Address - 004 Device ID - 277004 MS/TP Address - 121 Device ID - 277121

- Device ID can be changed via network command. Once changed, it will no longer default to 277XXX. (MS/TP Address & Device ID must be unique)
- This model utilizes: BO1, BO2, BO3, BO4, (Relay outputs), BI1, BI2, BI3, BI4 (Dry contact inputs)
- Device Instance changed via Object Identifier Property of Device Object
- Each unit is 1/8 unit load
- PIC Statement available on website. http://www.functionaldevices.com/pdf/ pics/RIBMW24B-44-BC_PICS.pdf

DIP 1											
	Baud Rate										
1-7	8	9	10								
See Bulletin B1082 for full MS/TP Addressing	0	0	0	9600							
	0	0	1	19200							
	0	1	0	38400							
	0	1	1	57600							
	1	0	0	76800							
	1	0	1	115200							

All other combinations=9600 baud

• Dry contact digital input is a general purpose input that is not tied to the relay internally. Can be used with any dry contact switching device, such as a current sensor, to report back to the network.

DIP 2												
Relay	Relay State**	DIP Switches*										
		1	2	3	4	5	6	7	8			
BO1	Auto	1	Χ	Χ	Χ	0	Χ	Χ	Χ			
	ON	X	Χ	Χ	Χ	1	Χ	Χ	Χ			
	OFF	0	X	Χ	Χ	0	Χ	X	X			
BO2	Auto	X	1	Χ	Χ	X	0	X	Χ			
	ON	X	Χ	Χ	Χ	Х	1	X	Χ			
	OFF	X	0	Χ	Χ	X	0	X	Χ			
ВОЗ	Auto	X	Χ	1	X	X	Χ	0	Χ			
	ON	X	Χ	Χ	Χ	X	Χ	1	Χ			
	OFF	X	Χ	0	Χ	X	Χ	0	Χ			
BO4	Auto	Х	Х	Х	1	Х	Х	Х	0			
	ON	X	Χ	Χ	Χ	X	Χ	Χ	1			
	OFF	Х	Χ	Χ	0	X	Χ	Χ	0			

^{* 0 =} Open; 1 = Closed

** Device must be powered for override



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The warranty does not apply to: (a) Damage caused by accident, abuse, mishandling, or dropping; (b) Products which have been subjected to unauthorized repair, opened, or taken apart; (c) Products not used in accordance with directions; (d) Damages exceeding the cost of such Product; and (e) Damages caused by lightning, water, or condensation. If warranty service is required during the Warranty Period, and if examination shall disclose to Seller's satisfaction

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Seller shall not be liable for loss, damage, or expense directly or indirectly caused from the failure of Products to perform as expected.

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- 8. RETURNS: Unless otherwise approved by Seller in writing in its sole discretion, except in the case of a non-conforming shipment or a warranty issue, Buyer may not return Products. If Seller approves the return of Products pursuant to the preceding sentence, such returned Products must be returned within ninety (90) days from date of invoice and will be subject to a 25% restocking fee. In the event of a non-conforming shipment or a warranty issue, Buyer may return Products, but only if Buyer first: (a) provides notice to Seller as required in this Agreement, (b) obtains prior authorization from Seller, and (c) all Products or containers for which return is properly authorized have been marked with a return authorization number supplied by Seller. Buyer will make all returns via a traceable form such as Federal Express, UPS or insured mail and in resalable condition. Buyer will pay all return shipping charges and any other charges associated therewith.
- 9. CANCELLATIONS: Cancellation or deferment of all or part of an order is subject to acceptance by the Seller. If accepted, any reduction in quantity of any item to less than 85% of the original item quantity is subject to a 15% cancellation charge. If an order cancellation is accepted, the Buyer will make delivery and pay for all material manufactured and in stock or in process at time of notice for such order, and for any special materials on orders for which the Seller must take delivery.
- 10. EXPORTS. Buyer agrees that it will comply with any and all U.S. Export Controls and will not pay for, resell, transfer or knowingly sell Products in violation of U.S. Export Controls. If Buyer resells Products within or exports Products to a country or region which imposes upon Seller and/or Buyer an obligation to fund or undertake reuse, recycling, composting, recovery of Products, or any similar obligation (e.g., the European Union's Waste Electrical and Electronic Equipment Directive, EC 2002/96/EC) (the "Obligations"), Buyer shall wholly undertake the Obligations or duties and shall be entirely responsible for all associated costs therewith. Seller shall have no obligation to reimburse Buyer for execution of the Obligations. In the event that Seller is named in a proceeding based upon the Obligations, Buyer shall indemnify, defend and hold Seller harmless from all actions related thereto, including all civil and governmental actions.
- 11. MISCELLANEOUS. This Agreement is governed by the laws of the State of Indiana, without giving effect to its conflict of laws principles. Buyer hereby irrevocably consents and submits to the exclusive jurisdiction and venue of the state and federal courts in Marion County, Indiana. The United Nations Convention for Contracts for the International Sale of Goods is explicitly excluded. Each provision contained in this Agreement constitutes a separate and distinct provision severable from all other provisions. If any provision (or any part thereof) is unenforceable under or prohibited by any present or future law, then such provision (or part thereof) will be amended, and is hereby amended, so as to be in compliance with such law, while preserving to the maximum extent possible the intent of the original provision. Any provision (or part thereof) that cannot be so amended will be severed from this Agreement; and, all the remaining provisions of this Agreement will remain unimpaired. No modification, addition or deletion, or waiver of any rights under this Agreement is binding on a party unless made in a non-preprinted agreement clearly understood by the parties to be a modification or waiver, and signed by a duly authorized representative of each party.