

## Modbus TCP/IP Server to BACnet MS/TP

### FEATURES

- Fully configurable Modbus TCP/IP Client
- Connects up to 32 Modbus TCP/IP Servers
- Fully Configurable BACnet MS/TP Responder
- BACnet MS/TP Supports Device, Binary I/O, Analog I/O, and Character String Value Object Types
- Effortless Browser Based Configuration, no programming software is required
- Simple data translation allows you to manipulate data as it passes between protocols
- Guaranteed Stock
- 5-Year Hardware Warranty

### Connect Modbus TCP/IP Servers to a BACnet MS/TP Controller

The 460MCBMS moves data between up to 32 Modbus TCP/IP Devices and a BACnet MS/TP Building Automation System (BAS). It's a perfect tool to tie Modbus power meters, boilers, chiller and other devices into your BACnet MS/TP Building Automation System.

Best of all the product is Made in the USA, is always in stock and comes with 5 year warranty.

### How do I use 460MCBMS-N2E in my application?

For most applications the mapping is very straight forward. Modbus Register data is mapped to BACnet Analog objects and Modbus Coil data is mapped to Binary objects. The only additional piece required for BACnet is adding meta data to each object.

It really is that simple. Need to modify your data as it passes from one protocol to the other? No problem. Each data mapping you apply can be modified with up to 3 mathematic functions. Add 4 to a value, multiply by 4 and divide by 10 with ease.

### Why Use Real Time Automation as a Gateway Supplier?

While there are certainly other companies offering protocol gateways, there is no one who provides the level of support and service that you receive from RTA.

When you call, a live person answers the phone. When you talk with sales, you will get honest answers and recommendations. When you get support, it is from an engineer who had a hand in the product's development, and support doesn't require a ticket or 24-hour wait.

**Try the RTA difference today! Call us at 800-249-1612 or check out our solutions at [www.rtautomation.com](http://www.rtautomation.com).**



**A Solution, A Philosophy, the RTA Way.** We understand the long hours spent on a factory floor and the pressure to keep a line running and product flowing. That's how Real Time Automation came to be. You want easy-to-use solutions where the hardest part is to open the box. You need customer support second to none. If you get all that and a fun customer experience, all the better. Thirty years later, our mission remains the same: **to move your data where you need it, when you need it and how you need it.**

**Modbus TCP/IP Client FEATURES**

Operation Mode	Modbus TCP/IP Client
Function Codes Supported	1,2,3,4,5,6, 15 & 16
Swapping	Byte and Word Swapping
Maximum Modbus TCP/IP Server Devices	32
Number Read/Write Scan Lines per Server Device	200 Total - 100 reads & 100 writes
Scan Line Support	Up to 125 Registers or 512 Coils

**BACnet MS/TP Master Responder FEATURES**

Operation Mode	BACnet MS/TP Master Responder
Supported Object Types	Device, Binary I/O, Analog I/O, Character String Value
Supported Service Codes	Read & Read Multiple-B, Write & Write Multiple-B, COV & COV unsolicited-B, Device Dynamic Binding-B, Dynamic Object Binding-B
Maximum Connections	1
Analog Objects Supported	1200 Input and 1200 Output
Binary Objects Supported	1600 Input and 1600 Output

**INCLUDED WITH GATEWAY**

3' power cable with flying leads	5-year hardware warranty
IPSetup software – automatically locates RTA gateway on the network	Unlimited firmware feature upgrades for life
CAT5 crossover cable for direct connection to PC during programming	Complete, unlimited access to our industry leading support staff
Manual	

**ELECTRICAL / ENVIRONMENTAL**

DC Input Voltage	12-24 VDC
Maximum Baud Rate	115K baud
Operating Temperature	-40 C to 85 C
Certification	RoHS-Compliant, UL, CUL, CE Approvals, Class I Div 2

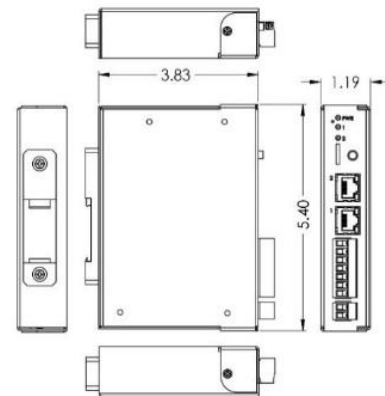
**ENCLOSURE / HARDWARE**

Size	5.40" x 3.83" x 1.19"
Weight	7.6 oz
Enclosure Type	Anodized Aluminum
Mounting	Din rail or panel mount
LEDs	Power LED & 2 general purpose LEDs on side

**GATEWAY FEATURES & FUNCTIONS**

Alarming	Set <, <=, >, >=, ==, !=, and change-of-state rules on any data moving through the gateway. If alarm rule is triggered an email notification can be sent.
Gateway Security	You can configure up to 9 different users access to diagnostic and configuration screens.
Translation Table	Allows for data manipulation during protocol translation. Scaling and other data format changes can occur in the gateway.
Status and Counters	Protocol specific status, counters, and error messages are accessible within the gateways diagnostics page. They can also be delivered to a connected device.
Diagnostic Logging Page	Allows users to see and log start up sequences, protocol specific messages & error messages.

**DIMENSIONS**



**NOT EXACTLY WHAT YOU WERE LOOKING FOR?**

Real Time Automation offers a full line of gateway products. If this is not the one you were looking for, give us a call at 1-800-249-1612. Or, check out a listing at [www.rtautomation.com/products](http://www.rtautomation.com/products). We also offer custom gateways to help customers dealing with unique needs or proprietary protocols.

CATALOG #	DESCRIPTION
460MCBMS-N2E	Connects up to 32 Modbus TCP Servers with a BACnet MS/TP Master

Allen-Bradley, ControlLogix, CompactLogix, PLC-5 are registered trademarks of Rockwell Automation, Inc.

Made in the  
u.s.a.

Always In  
stock

Ready to  
Ship

Expert  
Support

