

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 Subordinate
- 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
- 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, chillers, and other devices into your BACnet MS/TP building automation system.

Best of all, the product comes with 5-year warranty.

How Do I Use the 460MCBMS-N700 in My Application?

For most applications, the mapping is very straightforward. 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 metadata 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 three 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.



TCP/IP Servers



460MCBMS-N700

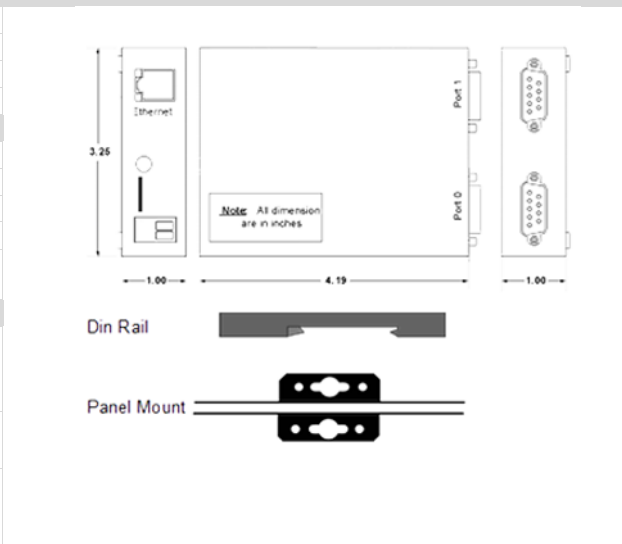


MS/TP Managers

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 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 RESPONDER FEATURES | |
| Operation Mode | BACnet MS/TP Manager 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 |
| ENCLOSURE / HARDWARE | |
| Size | 4.19" x 3.25" x 1" |
| Weight | 6.5 oz |
| Enclosure Type | Anodized Aluminum |
| Mounting | Din rail or panel mount |
| LEDs | Power LED, Ethernet link/data LED, & Ethernet speed LED |
| 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 gateway's 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. |



NOT EXACTLY WHAT YOU WERE LOOKING FOR?
 Real Time Automation offers a full line of gateway products. Give us a call at 1-800-249-1612. Or, check out a listing at www.rtautomation.com/products. We also offer customizations for unique applications.

| CATALOG # | DESCRIPTION |
|---------------|--|
| 460MCBMS-N700 | Connects up to 32 Modbus TCP servers with a BACnet MS/TP Manager |

