**REAL TIME AUTOMATION, INC.**
N26W23315 Paul Road, Pewaukee, WI 53072
800.249.1612 | solutions@rtautomation.com

REAL TIME AUTOMATION GATEWAY 460MSBMS-NNA1

# MODBUS TCP/IP CLIENT TO BACNET MS/TP

## KEY FEATURES

- Fully configurable Modbus TCP/IP Server
- Move up to 100 groups of 512 contiguous coils or 512 contiguous registers to or from your Modbus TCP/IP Client
- 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 a Modbus TCP/IP Client to BACnet MS/TP

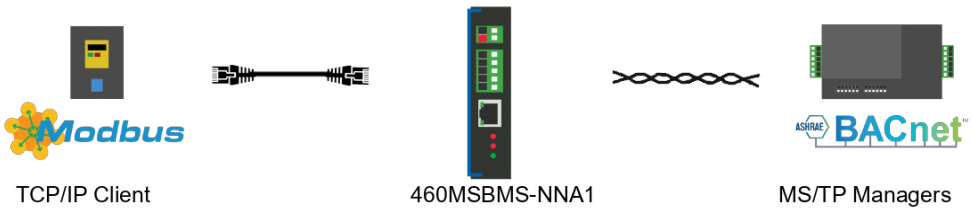
The 460MSBMS moves data between a Modbus TCP/IP client and a BACnet MS/TP Building Automation System (BAS). It's a perfect tool to get your Modbus TCP/IP data tied in with your BACnet MS/TP building automation system.

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

## How Do I Use the 460MSBMS In My Application?

Modbus register data is mapped to BACnet analog objects and Modbus coil data is mapped to binary objects on BACnet. The final step to add meaning names to each BACnet object for easy discovery in the BMS.

It's really 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.




TCP/IP Client | 460MSBMS-NNA1 | MS/TP Managers

## Why Use RTA As Your Gateway Supplier?

We are dedicated to being your trusted partner. 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 comes from technical experts who know the product inside and out.

ALWAYS IN STOCK | READY TO SHIP | BREWED IN WISCONSIN | EXPERT SUPPORT | 5-YEAR WARRANTY | PROTOCOL PARTNER

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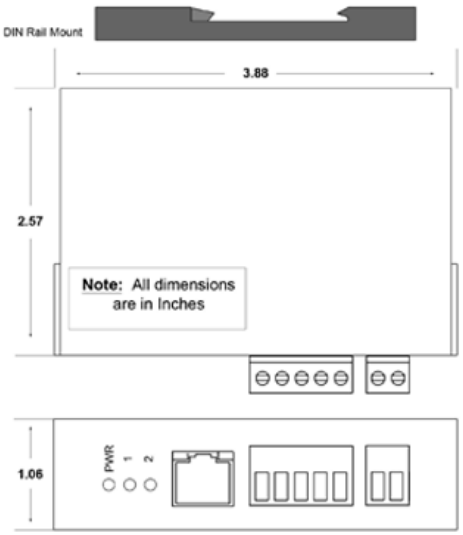
| MODBUS TCP SERVER FEATURES | |
|---|---|
| Operation Mode | Modbus TCP/IP Server |
| Function Codes Supported | 1,2,3,4,5,6, 15 & 16 |
| Swapping | Byte and Word Swapping |
| Maximum Modbus TCP/IP Client Connections | 10 |
| Contiguous Data Areas | 200 Total - 100 reads & 100 writes |
| Data Area Limits | 512 Contiguous Coils or 512 Contiguous Registers |
| **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 |

| 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 | 3.88" x 2.57" x 1.06" |
| Weight | 5.5 oz |
| Enclosure Type | Anodized Aluminum |
| Mounting | Din rail or panel mount |
| LEDs | Power LED & 2 general purpose LEDs on side |
| **GATEWAY FEATURES & FUNCTIONS** | |
| Gateway Security | You can configure up to 9 different users access to diagnostic and configuration screens. |
| 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?**
RTA offers a full line of gateway products. Give us a call at 1-800-249-1612 or visit www.rtautomation.com. We also offer customizations for unique applications.

| CATALOG # | DESCRIPTION |
|---|---|
| 460MSBMS-NNA1 | Modbus TCP/IP Client to BACnet MS/TP |