



Modbus TCP Client / BACnet/IP Server

FEATURES

- Fully Compliant BACnet/IP Server
- Fully User Configurable Modbus TCP Client
- Exchange BACnet/IP Data with Modbus TCP Servers
- BACnet/IP Supports up to 150 Analog Input and 150 Analog Output Properties
- BACnet/IP Supports up to 1600 Binary Input and 1600 Binary Output Properties
- Support for up to 31 Modbus TCP Devices
- Support Modbus Function Codes 1, 2, 3, 4, 5, 6, 15, and 16
- Effortless Browser Based Configuration
- 10/100 Base-T Ethernet
- Includes Ethernet Device Management Tool
- No Programming Required

An Instant Device Converter™ Product

Move Your Legacy Modbus TCP data to a BACnet/IP Network

Move Your Data Where You Want, When You Want, How You Want

Integrate Your Modbus TCP Servers Into Your Building Management System Over BACnet/IP

The 460MCBS moves data between Modbus TCP server devices and a Building Management system using BACnet/IP. There are thousands of Modbus TCP devices that have found their way into the vastly growing Building Automation market. These Modbus TCP Server devices include thermostats, temperature controllers, power meters, air handlers, security systems and sensors of every type imaginable.

With the 460MCBS you have a device that you can quickly deploy and easily configure to access and integrate these devices into Building Automation Systems.

Move Your Data Bi-directionally

You can both send data to your Modbus TCP Server devices and receive data from your TCP Servers. Registers and Coils in the Modbus TCP Servers are mapped directly to properties of Analog Inputs, Analog Outputs, Binary Inputs, and Binary Outputs. Up to 150 Analog Inputs, 150 Analog Outputs, 1600 Binary Inputs and 1600 Binary Outputs can be mapped to registers and coils in up to 31 Modbus TCP devices.

Configure Your Data Transfer from a Web Page

All the data transfer is configurable using the embedded web server. You define the number of Modbus TCP Server devices and you set one or more configurable groups of registers and/or coils to transfer from each Slave and how those registers are mapped to Analog and Binary Properties in the BACnet/IP Server.

The 460MCBS is the Smart Connection solution for moving data between Modbus TCP Server devices and Building Management systems using BACnet/IP.

The Legend Begins

"It's likely that your business isn't industrial networking and it shouldn't be. You make products, products that do wonderful things. Whatever it is that you make, the process creates data. If you're a control engineer and your plant has been around for more than a few years your floor is probably littered with devices that send out all kinds of data and in most cases data comprised of many different protocols. If you're an automation device developer you probably need to move your data into some other network. Either way, you've got a device conversion problem. You have devices that generate ASCII data, Modbus RTU, Ethernet TCP Data, DeviceNet data or some other completely proprietary data and now you're the person that has to move that data to some other network!"

I feel your pain... and rather than just my sympathy, I have a solution for you. You see, while your business may not be moving data around a factory floor mine is. In fact, it's all that we have done for over twenty years now. Our 460 series of Device Converters is the culmination of those twenty years. You can now move all of your data, where you want, when you want and how you want. Best of all
THE HARDEST PART IS OPENING THE BOX."

John Rinaldi

It's Easy to Set Up

Sound complicated? It's not. Just Three Simple Steps!

ONE: Start by opening the web page for the device with Internet Explorer.

TWO: Edit the Modbus TCP Client and BACnet/IP communication modules to connect to your system using our easy browser based configuration page.

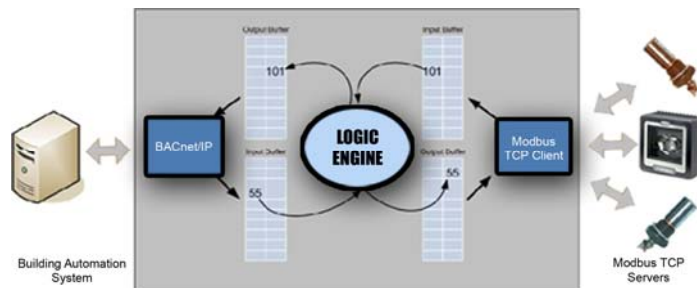
THREE: Set the IP Address, Subnet Mask, and Gateway Address to match your field setup and then connect our configured unit to your system.

Nothing complicated, and best of all it's browser driven!

NO SPECIAL SOFTWARE IS REQUIRED

How It Works:

The products in the Instant Device Converter product line contain an IEC standard control engine that moves your data from buffer to buffer. Input data from one network is moved to the output buffer of one or more other networks. Input data from those networks is moved to the output area of the other networks.



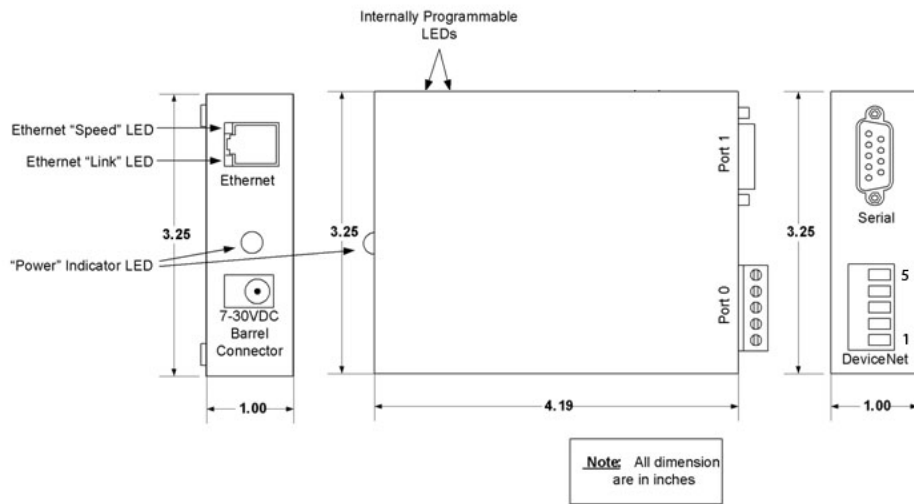
ENCLOSURE / HARDWARE	
Size	4.2" x 3.25" x 1"
Weight	5 oz.
Enclosure Type	Anodized Aluminum
Mounting	Din Rail
Connectors	Port 0: T-STRIP (RS232, RS485/RS422, CAN) Port 1: DB-9 (RS232, RS485/RS422, CAN) <i>**Only one RS232, RS485/RS422, or CAN port setting can be active per unit**</i> RJ45 10/100 Base-T (Ethernet) 2 Pin Barrel Connector
LEDs	Ethernet Link/Data, Ethernet Speed, Power, and two general purpose LEDs

ELECTRICAL/ENVIRONMENTAL/TOOLS	
Network Interface	10/100 Base-T with RJ-45 Connector
Power	8 V @ 230 mA to 28 V @ 80 mA
Maximum Serial Baud Rate	115K Baud
Device IP Address Management	IPSetup™ — automatically locates RTA Instant Device Converters
Operating Temperature	-40 C to 85 C
Certification	RoHS-Compliant, UL, CUL, CE Approvals



REAL TIME AUTOMATION

Dimensions



Connector Pin-Outs

PORT 1 (DB9)				
Pin	RS-232	RS-485	RS-422	CAN
1	CD	-	-	-
2	RX	TX-	TX-	CANL
3	TX	-	RX+	-
4	DTR	-	-	-
5	GND	GND	GND	GND
6	DSR	-	RX-	-
7	RTS	TX+	TX+	CANH
8	CTS	-	-	-
9	RI	-	PWRIN	PWRIN

PORT 0 (TStrip)				
Pin	RS-232	RS-485	RS-422	CAN
1	GND	GND	GND	GND
2	RX	TX-	TX-	CANL
3	TX	TX+	TX+	SHEILD
4	RTS	RX-	RX-	CANH
5	CTS	RX+	RX+	PWRIN

CATALOG #	DESCRIPTION
460MCBS	Modbus TCP Client / BACnet/IP Server

Sales & Service

PLACING YOUR ORDER

Orders can be placed 24 hours per day. You can place your order by faxing 262-439-4989 or emailing orders@rtaautomation.com.

TECHNICAL SUPPORT

Phone Support: 1-800-249-1612 during normal business hours

Email Support: Is available by emailing support@rtaautomation.com

Support for Other Industrial Networks

Versions of the **460 Line of Instant Device Converters** support a large number of industrial networks and more are being added. Every one of these are implemented using our simple web-based integration and configuration architecture found in all 460 Device Converters. Connect any number of protocols with the same easy integration and configuration the 460 Line

INDUSTRIAL NETWORK SUPPORTED			
ASCII RS232	Modbus RTU Slave	Raw TCP Client	EtherNet/IP Server
ASCII RS485	Modbus TCP Server	Raw TCP Server	EtherNet/IP Client
BACnet IP	Modbus RTU Master	CANopen Slave	DeviceNet Master
Modbus TCP Client	*** CALL ABOUT YOUR PROPRIETARY PROTOCOL ***		DeviceNet Slave

Proprietary Protocol Support

The **460 Instant Device Converters** can be customized for specific applications and proprietary communications. All 460 Instant Device Converters are based on an IEC 61131-3 Programming Engine. The engine supports Five worldwide, open standard programming languages providing maximum flexibility for controlling your data as it moves around your factory floor or building. Logic can be added to the Instant Device Converter using standard Ladder Logic, Structured Text, Sequential function Charts or Function Block Programming. You can do the Programming yourself or an RTA Application System Engineer can implement a highly tailored solution specific to your application.



REAL TIME AUTOMATION

For More Information:

Networking Product Manager

1-800-249-1612

sales@rtaautomation.com