



Modbus TCP Client / Modbus RTU Slave

FEATURES

- Fully User Configurable Modbus TCP Client
- Fully Compliant Modbus RTU Slave
- Support for up to 31 Modbus TCP Servers
- Up To 400 Modbus TCP Server Registers to transfer to Modbus RTU Master
- All Modbus TCP Server Devices Map Directly to a Modbus RTU Master
- Support Modbus TCP Function Codes 1, 2, 3, 4, 5, 6, 15, and 16
- Support Modbus RTU Function Codes 3, 6, and 16
- Effortless Browser Based Configuration
- 10/100 Base-T Operation
- Includes Ethernet Device Management Tool
- No Programming Required

An Instant Device Converter™ Product

Move Your Modbus TCP Devices To A Modbus RTU Network

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

Connect Your Modbus TCP Server Devices To A Modbus RTU Master

The 460MCMRS transfers Modbus data between Modbus TCP Server devices on a Modbus TCP network and a Modbus RTU Master on a Modbus RTU network. The module provides complete communication to Modbus TCP Server devices from a Modbus RTU Master. Our unit provides Modbus RTU Master data to a Modbus TCP network as Modbus TCP data and provides Modbus TCP data to a Modbus RTU Master as Modbus RTU Slave data.

With the 460MCMRS you have a device that you can quickly deploy and easily configure to access and integrate Modbus TCP Server data with your Modbus RTU Master.

Move Your Data Bi-directionally

A Modbus RTU Master device can both write register data in your Modbus TCP Server devices and read register data from those devices. Up to 400 Registers of data can be transferred from up to 31 Modbus TCP Server devices.

Your Modbus RTU Master sees the 460MCMRS as a Modbus RTU Slave device with the accumulated register and coil data of all your Modbus TCP Server 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. You set one or more configurable groups of registers and coils to transfer from each Server and in what order that those registers are transferred to the Modbus RTU Master.

The 460MCMRS module is the smart connection solution for connecting Modbus TCP Server devices to a Modbus RTU network.

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 Modbus RTU Slave communication modules to connect to your system using our easy browser based configuration page.

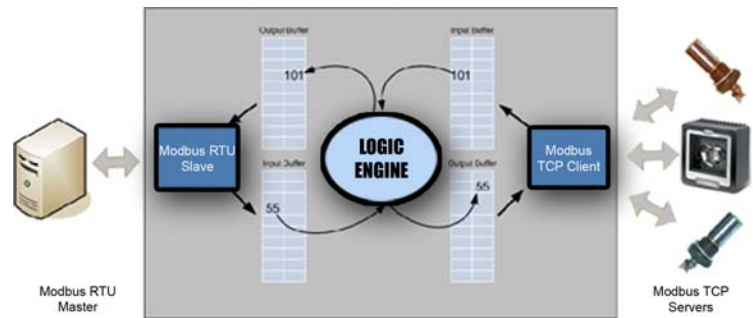
THREE: Set the IP Address, Subnet Mask, and Gateway Address to match your field setup and then connect our configured unit to your system.

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.



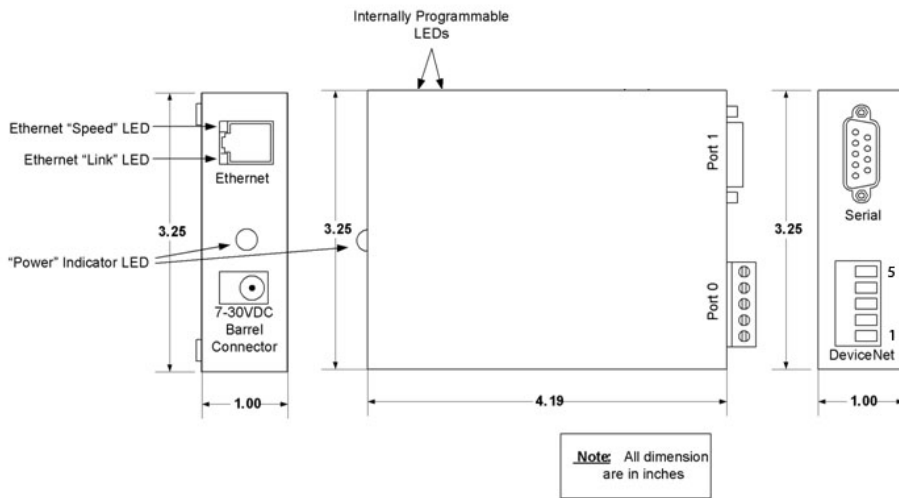
ENCLOSURE / HARDWARE	
Size	4.2" x 3.25" x 1"
Weight	5 oz.
Enclosure Type	Anodized Aluminum
Mounting	Din Rail
Connectors	Port 0: T-STRIP (RS232, RS485/RS422, CAN) Port 1: DB-9 (RS232, RS485/RS422, CAN) <i>**Only one RS232, RS485/RS422, or CAN port setting can be active per unit**</i> RJ45 10/100 Base-T (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
460MCMRS	Modbus TCP Client / Modbus RTU Slave Gateway

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:

Call: 1-800-249-1612
products@rtaautomation.com