

“At Last! Seamlessly Transfer Data Between Your MODBUS RTU Devices And Modbus TCP Clients”

Access Up To 31 Modbus RTU Devices Over Modbus TCP



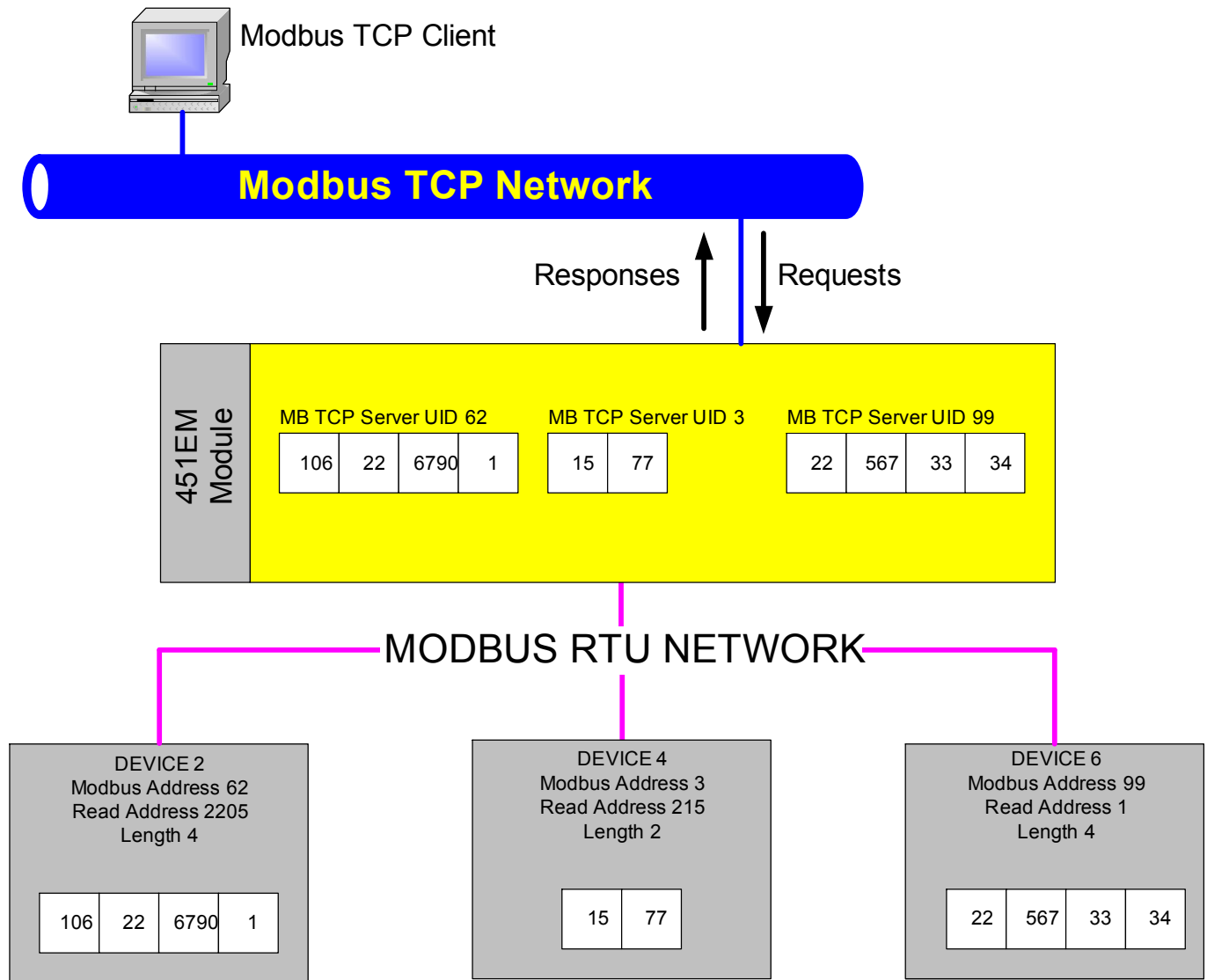
◆ Barcode Readers ◆ Weigh Scales ◆ Glue Machines ◆ Label Machines ◆ RF ID Devices ◆
Temperature Controllers ◆ HMIs ◆ Displays ◆ ASCII Keypads ◆ All Other Serial Devices

If you need to move Modbus RTU data to your Modbus TCP HMIs or Programmable Controllers you now have an exceptional tool – a tool designed for this task and this task only. With support for up to 31 Modbus Devices and easy web server configuration you can easily **read and write** all your Modbus RTU registers from a Modbus TCP Client at half the investment of rack-based solutions.

You’ve probably tried the expensive, complex solutions from some of the big, well-known companies. Probably tried them and either fought through the 100 page manuals or abandoned the effort in disgust. If that’s been your experience with Ethernet/Modbus RTU gateways you are going to love the 451EM. Simply set the UID field in your Modbus TCP message to the address of your Modbus RTU device and read or write any register in the Modbus RTU device from Ethernet. If you’re unfamiliar with it, the UID field is a standard field in every Modbus TCP Message. It exists for gateway applications exactly like this.

APPLICATION EXAMPLE

Registers from three Modbus RTU devices at Modbus Address 62, 3 and 99 are read and the resulting data is mapped into the internal memory of the 451EM module. A Modbus TCP can access the RTU data using the UID number in place of the Modbus RTU node Address.



The web server configuration table for this application follows.

ModBus Slave Device Configuration

Pick a device to configure:

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Current Device Configuration

Device 1

Read disabled
Write disabled

Device 2 (Slave Address 62)

Read Register Address 2205
Read Register Length 4

Write Register Address 101
Write Register Length 15

Device 3

Read disabled
Write disabled

Device 4 (Slave Address 3)

Read Register Address 215
Read Register Length 2

Write Register Address 101
Write Register Length 50

Device 5

Read disabled
Write disabled

Device 6 (Slave Address 99)

Read Register Address 1
Read Register Length 4

Write Register Address 101
Write Register Length 40

Device 7

Read disabled
Write disabled

Device 30

Read disabled
Write disabled

Device 31

Read disabled
Write disabled

Device 32

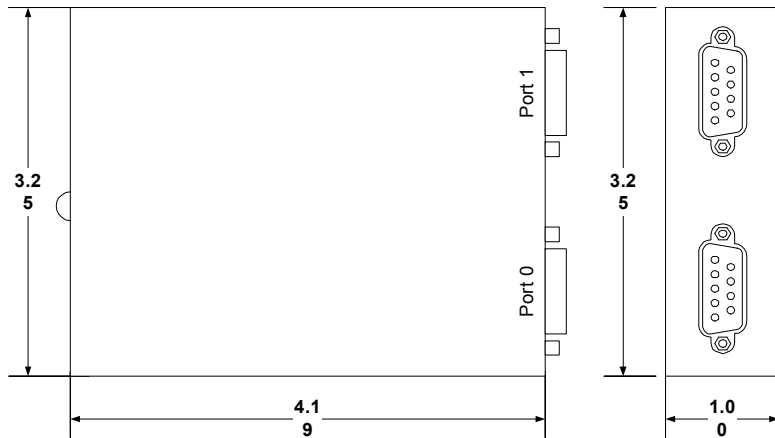
Read disabled
Write disabled

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SPECIFICATIONS

	Ethernet Hardware		LED's		Physical
	32-Bit Motorola Coldfire		Link/Speed LEDS		Dimensions: 4.2" x 3"
	10/100 BaseT		Data LED		Weight: 5oz
	RJ45 connector				
			Power Requirements		Environmental
	Serial Communications		12VDC @ 500ma		0 – 70 Degrees C
	Two DB-9M Connectors		9-30VDC		5 to 90% Relative Humidity
	Baud Rate: 300 to 19.2K				
	Even/Odd/No/Space Parity		Network Interfaces		Mounting Options
	One RS232 Serial Port		Ethernet TCP/IP		Desk Top
	One RS232/485 Port		Modbus RTU		Din Rail
					Panel
			Configuration		
			Browser Interface		

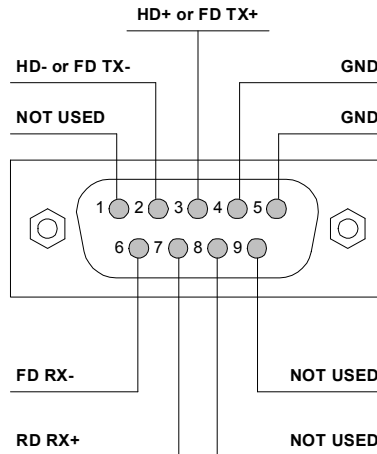
DIMENSIONS



Note: All dimension are in inches

SERIAL PORT PINOUTS

Serial Port 0 (RS485 MODE)



ORDERING INFORMATION

451EM	Modbus TCP Modbus RTU Gateway	Desk Mounted Gateway
451EM-P	Modbus TCP Modbus RTU Gateway	Panel Mounted Gateway
451EM-D	Modbus TCP Modbus RTU Gateway	Din Rail Mounted Gateway

For More Information:

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