

Model PC-E Protocol Converter

Serial Modbus RTU Protocol to Modbus TCP/IP Ethernet Converter for PLC, HMI, SCADA, etc.

The model PC-E Protocol Converter (Serial Modbus / Ethernet) is an interface to bridge Serial Modbus devices, such as Future Design Controls FDC-IO Series (Digital / Analog IO to Modbus RS232/485) to computer hosts running Modbus/TCP on Ethernet networks (10/100 Base-TX Ethernet network). The PC-E may be connected to multiple Serial Modbus devices and multiple PC-E converters may be connected to Ethernet networks.

Fully compliant with Modbus/TCP, the PC-E offers a convenient solution to connect existing devices or controllers running Modbus Serial protocol (Modbus/RTU) to an Ethernet network.

The Ethernet/Serial Converter can be configured to operate in a number of different modes depending on the application. It can be configured as a transparent data link or it can perform the gateway function of converting Modbus TCP messages to Modbus RTU messages.

The PC-E allows OEM equipment manufacturers, system integrators, and end users to connect control devices with Serial Modbus ports to Ethernet networks quickly & cost-effectively.



Features

- Supports Serial Modbus/RTU
 - Transparent Mode: TCP or UDP
 - Modbus Gateway: TCP or UDP
- Connect to multiple Serial Modbus devices
- Supports 10/100 Mbps communication speeds
- Allows up to 4 Masters to access data
- Power Supply: 10VDC to 26VDC
- Easy DIN Rail mounting
- Configuration via Web Server

PC-E Technical Specifications

Power

10 VDC to Power Supply:

Power Consumption: 90mA @1

Mechanical

Dimensions [W x H x D]: 70 x

DIN I Mounting:

Wiring Connection: Termi

Temperature / Humidity

Storage Temperature: -40C t Operating Temperature: -10C to Humidity: up to 9

LED Display: Power, Etherne

TX/RX Serial, 1 communication **Ethernet Communication**

Ethernet Interface: 10/100 Mbits/s and 10/100 Base - TX

Ethernet Connector: RJ45 plug

Serial Communication

RS232: 3-wire: TX, RX, GND RS485: 2-wire multi drop twisted pair

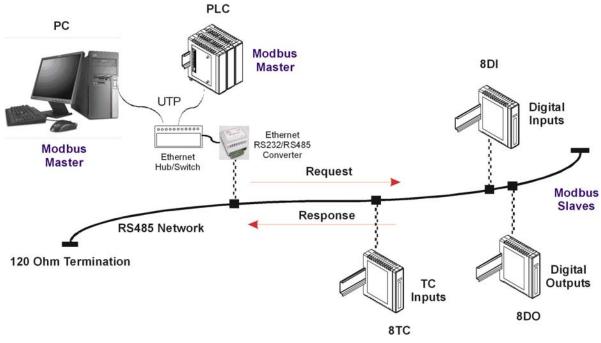
Baud Rate: 2400 - 115,200None, Even or Odd Parity:

Stop Bits: 1 or 2 Data Bits: 5, 6, 7, 8

Serial / Ethernet Converter Modes: (Refer to Manual)

Transparent Mode: TCP or UDP Modbus Gateway: TCP or UDP

Sample Network diagram showing multiple Masters communicating on a link with 3 slaves shown as Digital Inputs, Digital Outputs & TC Inputs



Ordering Code

DB9M-DB9F-6ft

PSR5R-SD24

Model Number

PC-E Protocol Converter - Serial Modbus to Modbus TCP/IP Ethernet

Accessories

Part Number **Description Ethernet Patch Cable Part Number** CA-CAT5E-Patch-7ft

RS232 to 485 Converter SN10A

(PC RS232 to Module(s) RS485) Serial cable SN10A to PC Power Supply (DIN Rail Mount)

Power Input: 85-264VAC

Power Output: 24VDC 60 Watt (2.5 amp) Contact for larger capacity Power Supplies

Ethernet Crossover Cable

CA-CAT5E-Patch-25ft

CA-CAT5E-Patch-50ft CA-CAT5E-Patch-100ft

CA-CAT5E-Crossover-7ft CA-CAT5E-Crossover-15ft

FDC_PC-E_Manual_v1.0_August-2007.pdf