DTS E4C Modbus Serial / Ethernet Gateway

The **DTS E4C family of Modbus Serial to Ethernet Gateways** provides a bridge connection for devices on Modbus RS-485 Serial networks to communicate with Modbus TCP networks allowing for seamless integration.

The Gateways are able to support up to 10 Masters on the hardwire Ethernet Interface and up to 32 slave devices on the RS-485 serial interface.

Serial data rates up to 115.2 kbps are supported ensuring maximum network flexibility.

The **DTS E4C** is built for use in Industrial environments, featuring a slim, ultra-compact DIN rail mounting design.

It operates from the 208V – 480V line voltage (Va-Vb). This significantly reduces installation time and cost as no external power supply is required. As an alternative it can be supplied with either 24Vac or 12-24Vdc power supply voltages (Model dependent)

It has pluggable terminal block connectors for quick removal and re-installation.

Ethernet IP address configuration is done using DTS ToolBox. The Modbus RTU parameters can be changed from the default setting using a simple CSV file downloaded to the DTS E4C using DTS Toolbox. (Contact Measurlogic for more details)

Features & Benefits

- Bridges RS-485 RTU serial devices to Modbus TCP Ethernet networks
- Modbus TCP – up to 10 Masters on hardwired ethernet interface
- Modbus RTU – Up to 32 slave devices
- Connection points: **1 x Ethernet, 1 x RS-485**
- Serial data rate: up to 115.2 kbps
- Ultra-compact DIN rail mount
- **208Vac – 480Vac L-L powered (Va-Vb)**
- 12 – 24Vdc **OR** 24Vac input required (power supply not included, sold separately) – Model dependent

Hardware Specifications *

Communications

Serial (galvanic isolation)	1 x RS-485 – **Default settings: 9600, N, 8, 1**
Baud rates	9600, 19200, 38400, 57600, 76800 & 115200
Ethernet	10/100 Base T, DHCP - **Default IP Address: 192.168.1.150**

Environmental

Operating Temperature	-20 to 70 ^{o}C (-4 to 158°F)
Relative Humidity	10-95% RH non-condensing

Other — Configured through DTS ToolBox, DIN rail mounted

Construction

Dimensions (H x W x D)	4.25 x 1.38 x 3.11 in (108 x 35 x 79 mm)
Weight	0.4 lbs (0.2kg)

Power Requirements

Input (AC line voltage auxiliary model)	208Vac – 480Vac L-L ± 10% (Va – Vb)
Input (Low voltage auxiliary model)	24Vac 125mA **or** 12 – 24Vdc 250mA @ 12Vdc
Max Power	2W

Ordering Information

CCOM-0044	DTS E4C-M-4	Modbus Serial to Ethernet Gateway	208V-480V L-L (Va-Vb) powered
CCOM-0046	DTS E4C-M-A	Modbus Serial to Ethernet Gateway	12 – 24Vdc OR 24Vac powered