**Temperature Controllers**

**DIN Rail/Surface Mount Adapter for 1/16 DIN Controls**

**Cutout for Control** – 45 mm/1.772” square  
**Maximum DIN Control Depth** – 120 mm/4.72”  
**Material** – Fire Retardant Polycarbonate GE Lexan® 940  
**Part Number:** TEC99920

**Polycarbonate Touchsafe Terminal Covers**

**Part Number:** TEC99921 (sold per piece)  
1/8 and 1/4 DIN – Fits Controller Models:  
TEC-8100, TEC-8300, TEC-805, TEC-4100, TEC-4300, TEC-401, TEC-402, TEC-404, TEC-405, TEC-4500

**Part Number:** TEC99922 (sold per piece)  
1/16 DIN – Fits Controller Models:  
TEC-9090, TEC-910, TEC-920, TEC-901, TEC-902, TEC-905

**Adapter Plates**

18 gauge Stainless Steel Adapter Plates with (4) #8 self-tapping sheet metal screws for mounting

**Model TEC 99999 Current Transformer/Transducer for use with Heater Break Alarm**

**Design Features**

- **High Accuracy:** ± 2% of Reading ± 0.2A  
- **Wide Measuring Range:** 0 – 50 Amps AC  
- **DC Voltage Output:** 0 – 5 VDC  
- **35 mm DIN Rail Mount or Surface Mount**  
- **1/16” (12.5mm) diameter maximum cable size**

**Note:**  
1 required for 1 Phase — 50A Max.  
3 required for 3 Phase — 100A Nominal Max.
TEC Accessories

Data Communication Accessories

**TEC99001** — Smart Network Adapter for third party SCADA software which converts 255 channels of RS-485 or RS-422 to RS-232 Network.

**TEC99003** — Smart Network Adapter for connecting the TEC controller’s programming port to the RS-232 PC serial port. Allows downloading and reading of configuration information directly from a personal computer. Can be used with TEC-220, TEC-410, TEC-910, TEC-920, TEC-2500, TEC-4100, TEC-4300, TEC-4500, TEC-7100, TEC-8100, TEC-8300, TEC-9100, TEC-9300, TEC-9500 and TBC-41.

**TEC99030** — "Tempco Config Set" PC software for use with TEC99003 Smart Network Adapter

Minimum System Requirements:
- Microsoft Windows XP, 2000, NT, 98, 95
- Pentium 200 MHz or faster
- 32 MB RAM (64 MB recommended)
- Hard disk space: 2 MB

*Note: Can be downloaded at no charge from www.tempco.com*

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**Part Number TEC99927 — Converter Connects RS232/RS422/RS485 Devices To PC Via USB Port**

**Part Number TEC99928 — Converter Connects RS422/RS485 Devices To PC Via USB Port**

### Specifications TEC99927

**USB**
- **Version:** 900/1800 MHz, dual band
- **Connector:** USB type B
- **Speed:** 12 Mbps

**Serial Interface**
- **Number of Ports:** 1
- **RS-232:** TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
- **RS-422:** TxD+(B), TxD-(A), RxD+(B), RxD-(A), GND
- **RS-485:** 4-wire: TxD+(B), TxD-(A), RxD+(B), RxD-(A), GND 2-wire: Data+(B), Data-(A), GND
- **Connector:** Male DB9
- **FIFO:** 64 bytes
- **Serial Line Protection:** 15 KV ESD for all signals

### Serial Communications Parameters
- **Parity:** None, Even, Odd, Space, Mark
- **Data Bits:** 5, 6, 7, 8
- **Stop Bits:** 1, 1.5, 2
- **Flow Control:** RTS/CTS, XON/XOFF
- **Speed:** 50 bps to 921.6 Kbps

### Power Requirements
- **Power Consumption:** 30 mA@5 VDC

### Mechanical
- **Dimensions:** 37.5 × 20.5 × 60 mm (L × W × H)

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**Specifications TEC99928**

**Chipset:** Silicon Laboratories CP2102

**Compliant:** USB 1.0, 1.1, 2.0

**Connector:** USB type A

**Baud Rates:** Full Speed 12 Mbps
Tempco Ethernet converter / Gateway is capable of linking any serial (RS-232 or RS485) devices to your computer network via Ethernet for remote access, control, and/or monitoring purposes. Works with Tempco electronics (controllers, data loggers, etc.) using our Data Acquisition Software (Part Number TEC99923).

**Part Number TEC99930**

### Design Features

- **Serial to Ethernet communication**
- **DIN Rail/Panel Mount**
- **COM1: RS232/RS485, RJ45 for Ethernet connectivity**
- **Application:** Connects IO modules, controllers, and HMIs to an Ethernet Network
- **Function:** Transparent data link or Gateway to convert Modbus RTU to Modbus TCP messages
- **Supports Multiple sockets and enables up to 4 Masters to communicate with slaves connected to PC-E converter**
- **Web server for Configuration**

### Specifications

- **Power Supply:** 90mA @ 10VDC / 40mA @ 26VDC
- **Ethernet:** 10/100 Mbits, Connector RJ45
- **Maximum Ambient Temperature:** 257°F / 125°C
- **Serial:** RS232, 3 Wire, TX, RX & GND
  - RS485, 2 Wire Multi drop twisted pair
  - Baud Rate 2400, 4800, 9600, 19200, 38400, 57600, 115200
  - Communication Settings Data Bits: 5, 6, 7, 8
  - Parity None, Even, Odd
  - Stop Bits 1, 2
- **Operating Temperature:** -10°C to + 50°C
- **Storage Temperature:** -40°C to + 85°C
- **Connectors:** Power and Communication: 8 way screw connector
- **Protection Class:** IP20
- **Humidity:** Up to 95% non-condensing

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**RS232/485 To Ethernet Converter**

![Diagram of Ethernet converter](image-url)