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
✴ 7/16” (12.5mm) diameter maximum cable size

Note:
1 required for 1 Phase — 50A Max.
3 required for 3 Phase — 100A Nominal Max.
**Temperature Controllers**

**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 Requirements**

- **System:** IBM PC compatible computer with Intel Pentium IV or above
- **Operating System:** Microsoft Windows XP or above
- **Memory:** 256 MB
- **Hard Disk:** 50 GB Free Space on the hard disk
- **Communication Ports:** RS232, RS485 or USB Port

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

**Specifications TEC99927**

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

**Design Features**

- Ideal for interfacing with TEC controllers, PPR chart recorders, PLCs, and general protocol conversion to a USB port
- Full-Speed USB operation at up to 12 Mbps
- Additional I/O or IRQ not required
- Serial transmission speed up to 921.6 Kbps
- 64-byte FIFO and built-in hardware and software flow control
- Built-in 15 KV ESD protection
- Support for RS-232, RS-422, 2-wire RS-485, and 4-wire RS-485
- Terminal block adapter

**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)

**Specifications TEC99928**

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

**Chipset:** Silicon Laboratories CP2102

- **Compliant:** USB 1.0, 1.1, 2.0
- **Connector:** USB type A
- **Baud Rates:** Full Speed 12 Mbps

**View Product Inventory @ www.tempco.com**
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).

**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