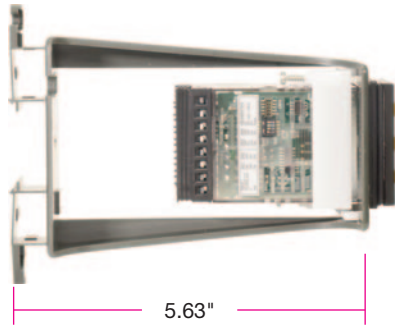## *DIN Rail/Surface Mount Adapter for 1/16 DIN Controls*
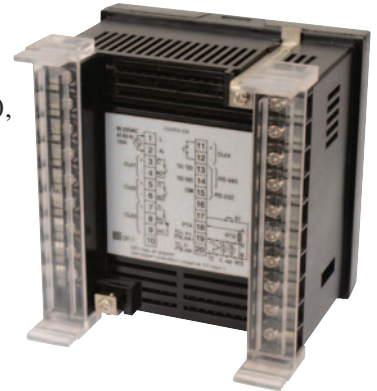
Cutout for Control – 45 mm/1.772" square
Maximum DIN Control Depth – 120 mm/4.72"
Material – Fire Retardant Polycarbonate GE Lexan® 940
Part Number: TEC99920

5.63"

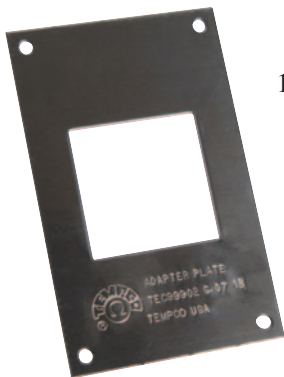## *Polycarbonate Touchsafe Terminal Covers*

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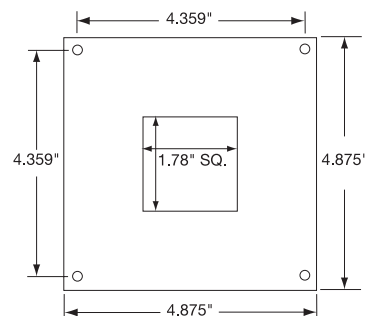TEC-4300, TEC-401, TEC-402, TEC-404,
TEC-405, TEC-4500

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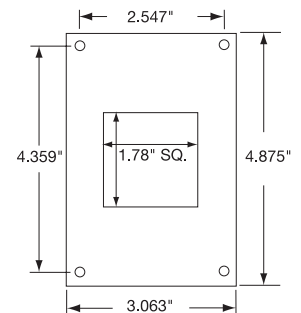TEC-901, TEC-902, TEC-905

Adapter Plates

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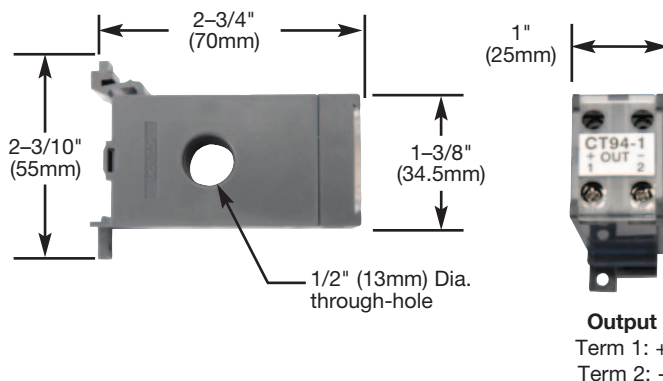with (4) #8 self-tapping sheet metal
screws for mounting

4.359"

4.359"   1.78" SQ.   4.875"

4.875"

TEC99901
Adapts a 1/4 DIN cut-out
to a 1/16 DIN cut-out.

2.547"

4.359"   1.78" SQ.   4.875"

3.063"

TEC99902
Adapts a 1/8 DIN cut-out
to a 1/16 DIN cut-out.

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

2–3/4"
(70mm)

1"
(25mm)

2–3/10"
(55mm)

1–3/8"
(34.5mm)

1/2" (13mm) Dia.
through-hole

CT94-1
+ OUT –
1   2

Output
Term 1: +
Term 2: -

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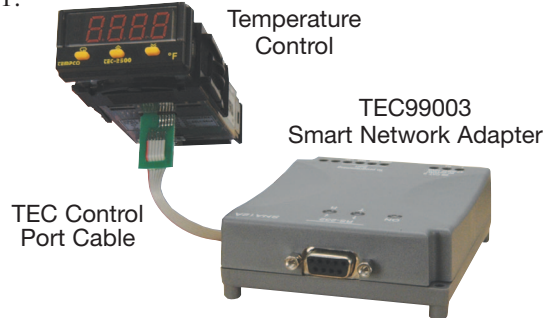
Note: Can be downloaded at no charge from www.tempco.com

Programming Port Cables
TEC99011 — Used for models TEC-220, TEC-4100, TEC-7100, TEC-8100 and TEC-9100.

TEC99012 — Used for model TEC-920 only.

TEC99013 — Used for models TEC-2500, TEC-4300, TEC-8300 and TEC-9300.

TEC99014 — RS-232 interface cable for models TEC-220, TEC-410, TEC-2500, TEC-4100, TEC-4300, TEC-4500, TEC-8100, TEC-8300, TEC-9100, TEC-9300, TEC-9500 and TBC-41.

Temperature Control

TEC99003 Smart Network Adapter

TEC Control Port Cable

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

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*

Part Number TEC99927

Part Number TEC99928

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: T×D+(B), T×D-(A), R×D+(B), R×D-(A),GND
RS-485: 4-wire: T×D+(B), T×D-(A), R×D+(B), R×D-(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
Chipset: Silicon Laboratories CP2102
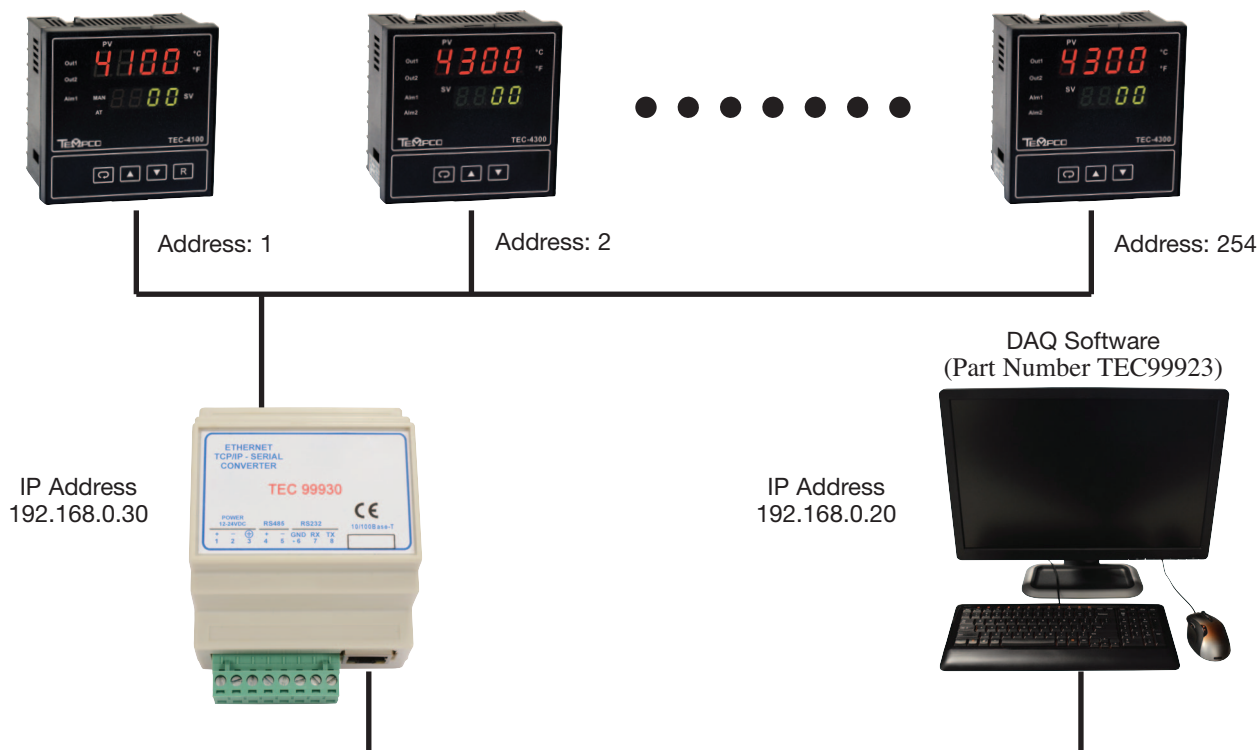**Compliant:** USB 1.0, 1.1, 2.0
Connector: USB type A
Baud Rates: Full Speed 12 Mbps

RS232/485 To Ethernet Converter

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**

Address: 1   Address: 2   Address: 254

DAQ Software
(Part Number TEC99923)

IP Address
192.168.0.30

IP Address
192.168.0.20

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