

## 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](http://www.tempco.com)*

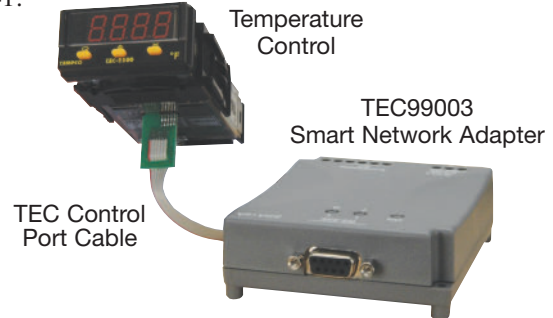
#### Programming Port Cables

**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.



### 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



Part Number TEC99927

#### 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 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:** Tx/D, Rx/D, RTS, CTS, DTR, DSR, DCD, GND

**RS-422:** Tx/D+(B), Tx/D-(A), Rx/D+(B), Rx/D-(A), GND

**RS-485:** 4-wire: Tx/D+(B), Tx/D-(A), Rx/D+(B), Rx/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