

The **PT3000 Protocol Translator** allows Supervisory Control and Data Acquisition (SCADA) systems to communicate with multiple Intelligent Electronic Devices (IEDs) through one communication channel. The PT3000 translates the different protocols for the system while freeing up communication channels.

Multitasking is the key to how the PT3000 operates. One task runs for each port, polling and controlling IEDs with native protocols. The information from those IEDs is placed into a real-time database. When a master polls the PT3000, the PT3000 accesses the database, formats the information for the correct protocol, and sends it to the master.



PT3000

Many companies provide great automation equipment, but they all have different (alien) protocols - Tetragenics, DNP 3.0, Modbus, SEL®, ABB, RFL 9300, Cooper 2179, JEM®, Quantum®. The list goes on.

The PT3000 allows these different devices to exchange data. With support for either a twisted pair 10-Base-T or AUI port, and up to 18 serial ports, the PT3000 has all the hardware connections you'll ever need. As many as 17 protocols at once can be translated to a common protocol for retransmission to a master. And the PT3000 supports multiple masters.

With this flexibility the PT3000 simplifies automation tasks. It handles almost any protocol over almost any interface: RS-232, RS-422, RS-485, Ethernet. Multiple PT3000 units can be connected to accommodate more protocols and more devices.

PT3000 FEATURES

- Interfaces with existing equipment
- Upgrades existing communication protocols to modern open system protocols such as DNP 3.0 and Modbus
- Interfaces to devices in the field that use different protocols
- Adds communications channels easily
- Ties existing field equipment into a network
- Integrates/merges different automation systems
- Allows remote monitoring of IEDs
- Creates protocol drivers
- Allows report-by-exception for supported protocols
- Adds IEDs with just a click of the mouse
- Interfaces data to networks (LAN/WAN) and provides communications to modern utility networks
- Displays the status of remote field sites from any location over a home page
- Packaged with an easy-to-use configuration editor
- Comes with an intranet-ready, customizable home page

MECHANICAL

Enclosure Type:	2U 19" Rack Mount
Dimensions:	3.47" H X 17" W X 12.15" D (not including front handles)
Material:	Stainless steel front and rear panels, steel covers
Weight:	12.6 lbs (base unit before options)
Mounting:	Mounts in a standard 19" mechanical rack
Oper. Temp. Range:	0 to 60 degrees C
Storage Temp. Range:	-40 to 70 degrees C
IED Input Connections:	17 EIA DB-9 on rear panel (RS-232/422/485)
Local Diag. Connection:	1 EIA DB-9 on front panel (RS-232/422/485)
Modem Connection:	1 RJ45 on front panel (for internal modem option)
Ethernet Connections:	1 EIA DB-15 AUI (rear panel) 1 10-Base-T RJ45 (front panel)

ELECTRICAL

Operating Voltages:	20 - 60 Vdc, 100 - 350 Vdc, 90 - 250 VAC (44 - 440 Hz)
Isolation:	EIA ports optically isolated from logic
CPU:	Intel 80486 DX4-100
RAM:	8 MB standard - expandable to 32 MB
Baud Rate w/no Modem:	Each EIA port configurable from 300 to 115,200 baud
Power Req:	65 Watts Maximum
Display:	High and Low Transmit and Receive LED for each EIA port
Modem Options:	<i>Multidrop Leased Line Polling</i> , 1200 or 9600 bits per second (bps) <i>Telephone dial up</i> , 300 to 33,600 bps <i>No modem</i> - each EIA port configurable from 300 to 115,200 bps

