



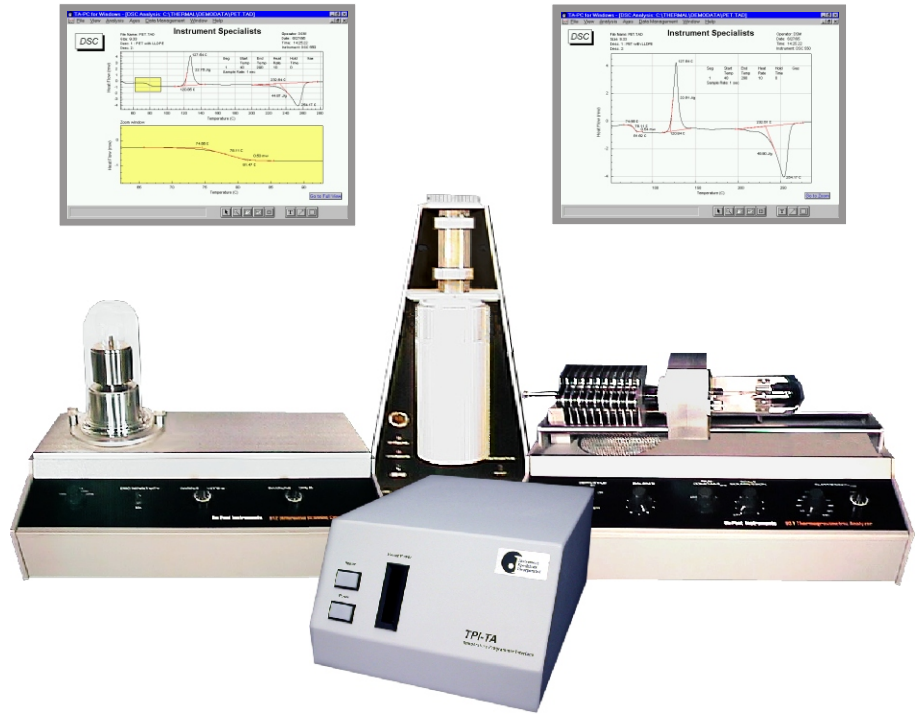
TPI-TA

Upgrade System

System Profile

New thermal analysis systems that enter the market continue to use existing measurement technology. The advantages of new systems are in the computers and software that control, collect, store and analyze the data. Existing thermal analysis modules are highly sensitive measuring devices but the systems they were purchased with lack state of the art computers, software and controllers.

The TPI•TA Controller System replaces outdated controller systems with a Temperature Programmer Interface (TPI), a Windows based personal computer and Windows Thermal Analysis software.



The Windows software allows all experimental conditions to be setup through the computer. The TPI accurately controls the modules temperature profile while collecting and storing the data on the computer's hard disk. The Windows software has full analysis capability to perform all DSC, DTA, TGA, TMA and STA analysis.

The TPI•TA Controller System is convenient, cost effective and easy to use. Upgrading your current modules will provide you with substantial savings by not requiring complete system replacement.

Features

Windows based system

Temperature control and data acquisition with 10 segments

Designed specifically for 910, 951, and 943 thermal analysis modules

Experiments run in the background to allow foreground data analysis

Supports DSC, Dual DSC, TGA, TMA, and STA analysis

Replaces 990, R99, 1090, Mimm, 9900, 2100 programmers and systems

Specifications

Requirements

- Any Pentium II or better computer
- Windows 98SE, ME, Windows 2000, Windows XP
- Windows compatible printer

Supported Modules

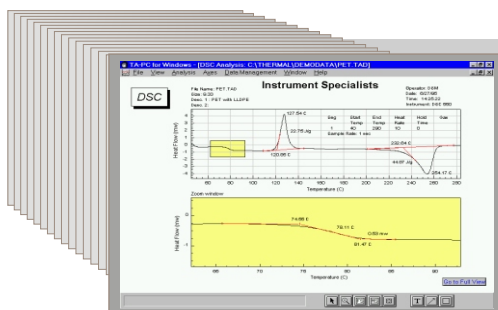
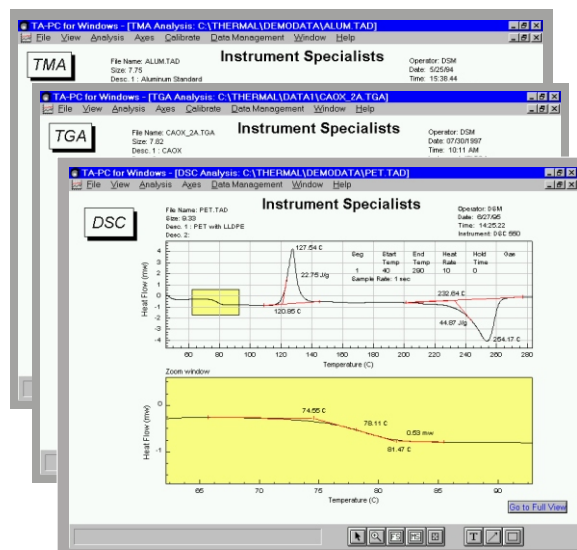
- Cellbases, 910, 912
- TGA 951
- TMA 943
- Other manufacturers available

Temperature Programmer Interface (TPI)

- Full low voltage power supply capability to operate DuPont/TA Instruments modules.
- 120 volt 10 Amp phase angle drive to heat the furnace

PCI Controller Card

- Two PCI Slots available
- Dual PID control for 12 different types of thermocouples
- 10 temperature segments each has 1 ramp, 1 isotherm and gas switch.
- Heating and cooling rates of 0.1 - 100 degrees C/min



Infinity Pro Thermal Analysis Software for Windows

DSC

Peak integration, Fused peak analysis, Onset and peak temperature determination, Glass transition analysis, Baselines slope correction, Linear or sigmoidal baseline constructs.

TGA

Weight loss in percent or initial weight, Onset calculations, Step weight loss analysis function, Residue calculation.

TMA

Expansion coefficient calculation, Penetration calculation, Onset/Tg calculation, Elongation analysis.

- Real-time color display of data collection
- Auto and manual scaling
- Time vs. temperature profiles
- First and second order derivative plots
- Analysis save feature
- Background, simultaneous and multiple Instrument data collection
- On-line help manual
- Individual segment display
- Annotation and drawing tools
- Copy to clipboard function
- Post collection editing
- Multiple curve/module overlay
- Split screen zoom mode
- Quadratic temperature and ordinate correction
- ASCII export
- Data smoothing
- Baseline file subtraction
- Y-axis shift operation
- Subfile operations
- Custom display configuration
- User selectable units
- Advanced analysis packages available

Specifications subject to technical change
TPI-TA v3

Distributor

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