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TECHNOLOGY GROUP

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5 SPECIFICATIONS

5.1 TGA 7 THERMOGRAVIMETRIC ANALYZER

Balance Sensitivity	Standard Furnace: 0.1 µg (10^{-4}mg). High Temperature Furnace 10 µg (10^{-2}mg)
Balance Accuracy	Better than 0.1%
Weighing Precision	Up to 10 ppm.
Sample Capacity	Standard Furnace: Up to 50 microliters. High Temperature Furnace: Up to 250 microliters.
Temperature Range	Standard Furnace: Ambient to 1000°C. High Temperature Furnace: 50°C to 1500°C.
Heating And Cooling Rates	Standard Furnace: 0.1 to 200°C/min in 0.1°C increments. High Temperature Furnace: 0.1 to 100°C/min to 0.1°C increments.
Temperature Precision	Standard Furnace: ±2°C. High Temperature Furnace: ±5°C.
Cool Down Times	Standard Furnace: 1000°C to 50°C in less than 15 min. High Temperature Furnace: 1500°C to 100°C in less than 35 min.
Sample Type	Solids, liquids, powders, films or fibers.
Atmosphere	Static or dynamic including nitrogen, argon, carbon dioxide, air, oxygen or other inert or active gases. Analyses may also be made at normal or reduced pressure.
Reduced Pressure	Operation to 10^{-4} torr optional
Temperature Sensors	Standard Furnace: Chromel-alumel thermocouple.

	High Temperature Furnace: Platinum/10% rhodium-platinum thermocouple.
Cooling Method	Forced air cooling.

5.2 PE 7000 SERIES PROFESSIONAL COMPUTER

General	The PE 7000 Series is a 32-bit microcomputer fully programmable in BASIC and FORTRAN (optional) ideally suited for laboratory or general purpose applications.
Microprocessor	M68000 8MHz 32-bit microprocessor with no wait states; 32-bit data and address registers, 24-bit memory address bus, and 16-bit data bus.
Operating System	Provides a multitasking multiuser environment.
System Design	Multitasking design, allowing simultaneous operation of multiple thermal analysis instruments. Unique soft key operation for ease of data collection, analysis and storage.
Graphics	Standard 13 inch color CRT with high resolution (256 vertical by 720 horizontal pixel resolution) graphics. 8 selectable alphanumeric colors; 27 possible graphic colors, 16 of which can be displayed simultaneously.
Memory	1.64 megabytes of total RAM. 32 kilobytes of ROM.
Keyboard	Full-ASCII keyboard with 32 user-definable special-function keys (shiftable to 64).
Soft Keys	Eight bezel-mounted soft keys constantly updated to define the current state of the system at any time.
Program & Data Storage	Two double-sided, double-density 5-1/4 inch disk drives which accommodate standard 5-1/4 inch mirco-floppy disks for a total of 640 kilobytes of program and data storage. Ten, fifteen, or twenty-eight megabyte Winchester hard disk for massive data or program storage.
Communications Ports	Four serial asynchronous RS-232C communications ports are standard, allowing two-way communication with other computers. Software selectable communication conditions

	permit the ports to be programmed for baud rate, stop and data bits, and parity. Industry-standard IEEE- 488 interface is also available as an option.
Instrument Calibration	Automatic temperature and ordinate calibration routines for all 7 Series analyzer modules.
Safety Protection Features	Continuously resident safety protection circuits protect all analyzer modules from accidental over-temperature conditions.
Diagnostics	Automatic routines for system diagnostics.
Help Facility	Menu driven Help Facilities are standard.
Thermal Analysis Software	A complete library of programs for thermal analysis are available for use with the PE 7000 Series Professional Computer.
Other Software	Perkin-Elmer offers a growing library of laboratory instrument and special purpose software for use with the PE 7000 Series Professional Computer.

5.3 TAC 7 THERMAL ANALYSIS CONTROLLER

General	The TAC 7 is the intelligent microprocessor controller that links the computer to the 7 Series thermal analysis modules.
Microprocessor	High speed microprocessor for control of all functions.
Memory	32 kilobytes ROM. 16 kilobytes RAM.
Communications Ports	Two RS-232C communications ports, an analog control port and a digital control port.
Diagnostics	Built-in diagnostics continuously monitor and analyze all system functions.

5.4 GSA 7 GAS SELECTOR ACCESSORY

General	The GSA 7 permits automatic switching of purge gases at operator selected intervals. Compatible with all 7 Series thermal analysis instrument modules.

Type	Automatic computer controlled gas switching device which is directly controllable through the computer.

5.5 GRAPHICS PLOTTER

General	High resolution alphanumeric X-Y printer/plotter with graphics.
Operation	Multiple pen operation for automatic multicolor plot generation.
Scaling	Automatic scaling performed and optimized by the PE 7000 Series Professional Computer.
Hard Copy	Publication quality data presentation and results. Transparencies available as an option.

Note: Specifications listed here are subject to technical change.

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