ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Sciemetric Instruments 298PPC0* at our website: *Click HERE*

MODEL 298

ORDERING INFORMATION

Complete Systems:

298-1A Signature Analysis System 0298-2981-0000
Model 298 Base system includes:

- Model 298 chassis with mounting pedestal, heat exchanger, 15" VGA monitor. Standard outside color is grey with white interior paint
- CPU Sub-Assembly (0298-0020-SP00), see below
- InspeXion® Test and Analysis software, SPC module for InspeXion® and Microsoft Windows NT™ operating sysytem
- Model 237 high speed 16-bit A/D converter
- Model 251B 16-channel transducer interface/analog expansion module
- Model 808 PCI Interface with Data Collection Engine
- Model 811 PCI Termination module for Model 808
- 12VDC @ 6.8A power supply, connectors
- ±15VDC@1.5A for customer use
- Documentation binder

Note system does not include relay or digital I/O channels.

Model 298 Options and Spare Parts:

0298-0020-SP00	**Model 298 CPU Sub-Assembly** Complete CPU drawer sub-assembly including passive backplane CPU (Pentium® Processor, 128MB, IDE, ethernet, SVGA inter face), hard disk drive, internal RW CD-ROM, Microsoft Windows™ NT operating system on CD-ROM, keyboard with trackball, 200W power supply, Model 808 System 200 bus interface with integrated timer.
0200-0027-0226	Model 226- Isolated combo relay I/O card AC/DC (16 inputs 3-180V, 16 outputs 60V @ 1 Amp)
0200-0024-0202	Model 202- 2 channel quadrature shaft encoder/scale interface
0200-0022-0210	Model 210- 4 channel 12-bit D/A with digital I/O (4I/4O)
0200-0021-0251B	Model 251B- 16 channel analog transducer expansion module
0200-0021-0237	Model 237- High speed 16-bit A/D converter
0200-0025-0811	Termination module for Model 808 (provides access to the encoder and digital I/O channels)
0298-0010-UG00	Station specific user guide (provided following final installation)
0298-0020-SPCK	Passive backplane single board Intel® Pentium® CPU, 128MB RAM, IDE, ethernet, SVGA
0200-0020-MN15	15" Colour Super VGA .28 dot pitch, 1024 x 768, non-interlaced
0200-0020-KEY0	Keyboard with integrated trackball
0200-0020-HD00	IDE compatible hard disk drive, 15GB or greater
0200-0020-FLP0	Floppy disk drive, 1.44MB/720kB, 3.5", half height
0298-2980-PT00	Custom exterior paint, contact factory for optional colors
0298-2980-TB00	Internal tape back up, 2.5GB native, 5GB compressed
0298-2980-CAST	Base plate and casters for 298 pedestal
0298-2980-PED0	Pedestal for Model 298 (with removeable access plate)
0298-2980-AC00	Air conditioner (2500 BTU/hour)
0298-2980-220V	Option for 210-230VAC 50-60Hz power input
0298-2980-3000	Mounting plate for Daytronic 3378
0298-2980-3378	AC torque signal conditioner (Daytronic 3378R)

DOCUMENTATION

One documentation binder is supplied with each Model 298 system which contains the electrical block diagrams, mechanical drawings, System 200 hardware components and interconnection wiring, System 200 specification sheets and user guides, and InspeXion® user guide. Extra sets of documentation are available at additional cost.

SPECIFICATIONS

PROCESSOR

Processor	PentiumIII	The exact processor type and speed, memory supplied, hard disk capacity and other technical specifications will change as computer technology improves. This is the current configuration at the time this brochure was printed.
Hard Disk	15GB or greater	
DRAM	128MB RAM	
Ethernet	10\100 Base-TX	
Available slots	3 ISA, 3 PCI	
Printer port	1	
RS232 serial ports	2 (1 available, 1 for mouse)	

AC POWER REQUIREMENTS

Standard Power	120VAC RMS, 50 - 60 Hz
Current Draw	2 Amps typical, fused for 8 Amps, no air conditioner
Optional Power	210-230VAC RMS, 50 - 60 Hz
Current Draw	1 Amp typical, fused for 8 Amps, no air conditioner

DC POWER SUPPLIES

Single output linear	12VDC@6.8A for System 200 and sensors
Dual output linear	±15VDC@1.5A for customer use

GENERAL

	H x W x D		
Chassis Dimensions	29 x 25 x 27 in	(737 x 635 x 686 mm)	With top heat exchanger
Overall Chassis Dimensions	65 x 25 x 27 in	(1651 x 635 x 686 mm)	With top heat exchanger and pedestal
Shipping Dimensions			
Base Chassis	36 x 36 x 36 in 310 lbs	(914 x 914 x 914 mm) (140 kg)	Drawing 298N-22.DWG indicates the clearances required for the Model 298 doors.
Pedestal	36 x 36 x 42 in 100 lbs	(914 x 914 x 1066 mm) (45.4 kg)	A Model 298 system is shipped in 3 separate containers: one for the base chassis, one for the pedestal, and a third for the monitor.
Monitor	19 x 22 x16 in 30 lbs	(482 x 559 x 406 mm) (13.6 kg)	
Total Weight	440 lbs	(200 kg)	
Operating Humidity	8 to 90	%	Relative, non-condensing
Operating Temperature	0 to 35 0 to 50	°C °C	With heat exchanger With 0298-2980-AC00 air conditioner option
Warm Up Time	60 minutes		For stated accuracy
Paint Finish	F63TXA0322-8716		Exterior dark grey Sherwin Williams , baked enamel, medium texture, semi gloss finish with interior white enamel.

SYSTEM 200 COMPONENTS (OPTIONAL)

Maximum Capacities

Number of physical cards	12
Analog inputs	32
Encoder inputs	6
Relay inputs	32
Relay outputs	32
Analog outputs	8

Card Options

A/D Converters	237
Multiplexers	251, 251B
Analog Output	210
Digital I/O	241, 242, 811
Encoders	202, 202PE, 202DMPD, 811
PCI Interfaces	808
Signal Conditioning	207, 208, 260-8, 262, 246
Relay Cards	220, 222, 223, 224, 225, 226

Consult factory or configuration guides for specifications or additional I/O cards.

Note: Specifications subject to change without notice.

ISO 9001 REGISTERED

Microsoft Certified Solution Provider

For more information contact your local Sciemetric representative:

Sciemetric Instruments Inc.
3685 Richmond Road,
Ottawa, Ontario, Canada K2H 5B7
(613) 596-3995
Fax: (613) 820-3746
www.sciemetric.com
e-mail: inquiries@sciemetric.com

SCIEMETRIC®

TECHNICAL SUPPORT
1-877-581-0112

©2001 Sciemetric Instruments Inc. All brand and product names are trademarks or registered trademarks or their respective companies.

Printed in Canada. BR 12 Revision 2.0 October 25/01

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

MODEL 298

PROCESSOR

The processor unit consists of a passive backplane single board Intel® Pentium CPU with on-board SVGA video, IDE interface, ethernet network port, and PCI/ISA expansion slots. The entire CPU drawer is removable for rapid service and trouble free upgrades. The supplied hard disk drive is at least 15 GB capacity and a read-write CD-ROM is also provided for easy software loading, hard disk backup, full data recovery and data portability.



Plug-in style CPU for fast upgrades



Model 298 with removable CPU drawer shown in the foreground

Certain System 200 modules also generate precision regulated power for strain bridges, load cells and other sensors (e.g., 5V for encoders on the Model 202 or 81; 2.5, 5 or 10VDC for bridges on the Model 251B, etc.). Consult separate specification sheets for specific card features.



Model 298 right hand side view, showing 3 card bays

OPERATOR INTERFACE

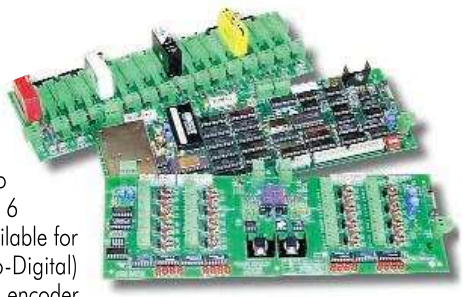
Central to the operator interface is a 15" SVGA colour monitor behind a tempered glass panel. Four front panel push buttons are provided for simplified access and navigation through the software menuing system (left, right, enter, cancel). A fold down door provides access to the master on/off power switch and the keyboard with trackball for data entry, programming, calibration and setup. A small panel is also located behind this door which gives access to the floppy drive and RW CD-ROM.



Model 298 front view, with keyboard door open exposing RW CD-ROM

I/O SIGNAL CONDITIONING

The Model 298 can be configured for specific test applications by adding up to 12 optional input/output cards in the 6 System 200 card bays. I/O cards are available for signal conditioning, A/D (Analog-to-Digital) conversion, relay input and output control, encoder input, analog output signal generation, and more. Sciemetric's system 200 modules have been proven reliable in production environments and are designed with ease of use in mind with such features as auto card identification, simplified sensor connections through plug detachable Phoenix connectors, and clear termination block labeling.



System 200 I/O expansion cards

The chassis is pre-wired with power and system electrical interconnections and internal cable trays are provided to organize sensor and control wiring. Internal linear DC power supplies provide clean filtered power for I/O cards, sensors and test system operation.



Model 298 test stand shown in a production environment

SCIEMETRIC

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP