

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 *Beckman Coulter / Hach / Pacific Scientific PM-250* at our website: *Click HERE*

Serial-based communication/control for ISPM

PM-250E/PM-255E Vacuum Particle Controllers

FEATURES

- Data buffering and support of real-time tasks simplify integration into host systems
- Eight independent opto-isolated Machine Trigger inputs allow data collection during key steps of the process cycle
- Sensor response is user-programmable to optimize sensor performance for each process step



The HYT controllers from Pacific Scientific Instruments provide an intelligent interface between any HYT *in situ* vacuum particle sensor and your data acquisition system. Complete *in situ* particle monitoring (ISPM) systems for vacuum process environments include the particle sensor; PM-250E or PM-255E controller; and a PC with Particle Vision® software for data acquisition and statistical process control.

HYT controllers support all real-time particle monitoring tasks. The proprietary Machine Trigger™ capability enables you to synchronize particle data collection with the process cycle of your semiconductor production equipment. Particle level thresholds and sensor setup parameters are fully programmable using the HYT letter command set. A large 256-point data buffer allows HYT controllers to be used with non-real-time operating systems.

PACIFIC SCIENTIFIC INSTRUMENTS

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

Model PM-250E/PM-255E Particle Controllers

MODEL PM-250E

The PM-250E controller is a stand-alone controller which communicates over a serial interface, supporting RS232, RS422, and RS485. A fiber optic connector is available as an option. A PM-250E supports one HYT sensor; up to 15 controllers can be daisy-chained together and monitored by a single PC. The PM-250E can be mounted to any surface using the provided threaded inserts.

MODEL PM-255E

The PM-255E controller is comprised of five independent sensor controllers in a compact, self-contained module. It communicates to the host computer over a serial interface which supports RS232 and RS485. An optional fiber optic connection is available. Each sensor controller is fully programmable for particle sizes and contains the proprietary HYT Machine Trigger system for synchronizing particle counts to process events.

SPECIFICATIONS

Sensitivity	Determined by sensor	
Count Rate	Maximum 1000 per second	
Diagnostics	Continuous sensor and controller diagnostics with alarms	
Processor	16-bit CMOS 80C196 @ 12.8 MHz, monitored w/ watchdog timer	
Machine Trigger Inputs	8 independent opto-isolated inputs 4-30 VDC or AC 4 kohm input resistance, typical 3 V activation threshold, typical	
Alarm Relays	2: one set by Particle Vision® software when particle count exceeds the threshold, one set by the controller to indicate sensor or controller diagnostic failure	
Data Buffer	256 points	
Operating Temperature	PM-250E	50 to 122°F (10 to 50°C)
	PM-255E	50 to 104°F (10 to 40°C)
Power	PM-250E	90-240 VAC, 50-60 Hz, 0.1 A @ 120 VAC
	PM-255E	90-240 VAC, 50-60 Hz, 0.2 A @ 120 VAC
Number of Sensors	PM-250E	1
	PM-255E	5
Communication to Host	PM-250E	RS232, RS422, RS485, fiber optic (optional)
	PM-255E	RS232, RS485, fiber optic (optional)
Dimensions	PM-250E	4.15" w x 3.35" h x 12" d (10.54 x 8.5 x 30.48 cm)
	PM-255E	6.5" w x 4.5" h x 12" d (16.5 x 11.43 x 30.48 cm) plus 1.4 " (3.56 cm) for Heat Sink

CE

The Model PM-250E and Model PM-255E are certified for use in environments classified as heavy industrial. Complies with EN50082-2 condition "A" (immunity test). Do not use it in residential, commercial, or light industrial areas.

Specifications are at reference conditions, and may change without notice. All trademarks are property of their respective owners. PN705076-1/00

PACIFIC SCIENTIFIC INSTRUMENTS

HIAC Royco HYT MetOne

UNITED STATES
481 California Avenue
Grants Pass, Oregon 97526
United States
Tel 1 541 479 1248
Fax 1 541 479 3057
Toll Free 1 800 866 7889

ENGLAND
Pegasus House
Haddenham Business Park
Haddenham
Bucks HP17 8LL
England, United Kingdom
Tel 44 (0) 1844 299 336
Fax 44 (0) 1844 299 379

FRANCE
100 rue Blaise Pascal
ZI les Mardelles
93605 Aulnay-sous-Bois Cedex
France
Tel 33 (0) 1 58 03 05 00
Fax 33 (0) 1 48 66 46 66

GERMANY
Ostwall 30
Lüdinghausen D-59348
Germany
Tel 49 (0) 25 91 30 91
Fax 49 (0) 25 91 50 14

SCOTLAND
CEL Enterprise Centre
58 Cornton Road
Stirling FK9 5AT
Scotland, United Kingdom
Tel 44 (0) 1786 448 338
Fax 44 (0) 1786 448 711

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