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## The flexibility of an MS-DOS environment with the power of HP BASIC

### HP PC-308, PC-312 and PC-315 instrument controllers



Hewlett-Packard PC-300 controllers allow you to combine the power of HP BASIC for instrument control with the functionality of MS-DOS® applications. It's the best of both worlds. You have state-of-the-art instrument control on a personal computer which can also use MS-DOS software for technical documentation, analysis, database management and the other crucial parts of an engineer's computing needs. The time and effort you save by utilizing the broad range of MS-DOS applications can translate into a competitive advantage when you are in a race to finish a project.

Six models in the HP PC controller line give you the flexibility to choose the price/performance level that best suits your needs. Software compatibility with an array of MS-DOS applications, access to HP's instruments and peripherals, and industry-standard connectivity to other vendors' equipment provide you with unparalleled freedom and an additional competitive edge.

## HP test and measurement expertise comes in a familiar package

Because HP PC-300 controllers are based on HP Vectra personal computers, they run the industry-standard MS-DOS operating system. That means you have the capability of using MS-DOS applications such as Lotus®1-2-3® for graphical analysis or MS Word for reporting. With the HP BASIC Language Processor II, HP Vectra PCs also run the most powerful instrument control language ever created — HP BASIC. All data files created with the HP BASIC Language Processor (BLP) are completely compatible with MS-DOS files and are accessible from MS-DOS applications. Additionally, HP BASIC programs written on the BLP will run on HP BASIC Series 300 controllers. With a built-in HP-IB (HP's IEEE-488 interface bus), HP BASIC controllers work with hundreds of HP instruments.

By utilizing coprocessor technology, HP gives you the ability to perform multiple tasks at the same time. For instance, while gathering test data, test results can be analyzed in Lotus 1-2-3. There can be two-way communication between MS-DOS and HP BASIC test programs and multiple coprocessors allow up to three independent tests at one time. Through a pop-up window, you can communicate with HP BASIC without disturbing a PC application that is running simultaneously. As data is acquired by HP BASIC, it can be transmitted to an active

MS-DOS application such as Lotus 1-2-3, MemoMaker and others as well as to MS-DOS data files on the internal hard disk. Because this capability is bi-directional, MS-DOS applications can send commands or data to background HP BASIC programs, as well.

HP gives you a broad choice of controllers — from the 80286-compatible PC-308 to the high-performance PC-315 with an 80386 microprocessor running at 25 MHz.



The HP PC-315CM — powerful, expandable, configurable

## Our PC controllers come with the ultimate in BASICs — HP BASIC

HP BASIC is not just another generic BASIC language. We've added features which make it the premier language system for instrument control. For instance, HP BASIC features the world's most complete, optimized transactional I/O

system. Statements for high-speed data transfer, interrupt processing, mass storage, printing, plotting and automatic data formatting are all part of the package. The user-defined I/O paths minimize system overhead. And more than 20 HP-IB commands give you high performance and flexibility. HP BASIC also provides powerful, easy-to-use graphics capabilities. For example, one program line draws axes or a grid. Another plots your data. A third labels your plot. A fourth provides a permanent copy on a plotter or printer. HP BASIC also supports a variety of monitors and resolutions in monochrome and color without software changes.

By utilizing mathematical commands similar to those found in languages optimized for computation, HP BASIC gives you high-speed computational capabilities. Numerous predefined functions, including single-statement mathematical, string and matrix manipulation functions are included. For further improvements in speed-critical areas, HP BASIC programs can be compiled.





## Select the system that meets your needs

### PC-300 HP BASIC controllers

P/N	Description
HP 82314E	PC-308ML . Pre-configured HP Vectra ES/12 PC including: HP Vectra ES/12 SPU with 640 Kbyte RAM, 1.44 Mbyte 3.5-inch flexible disk drive, 20 Mbyte hard disk subsystem, 14-inch monochrome video graphics display in white, green or amber phosphor, video graphics adaptor, HP BASIC Language Processor Release II with 1 Mbyte RAM and built-in HP-IB interface, serial/parallel interface, HP Vectra DOS/PAM
HP 82315E	PC-308CL . Pre-configured HP Vectra ES/12 PC including: HP Vectra ES/12 SPU with 640 Kbyte RAM, 1.44 Mbyte 3.5-inch flexible disk drive, 20 Mbyte hard disk subsystem, 14-inch video graphics color display with tilt/swivel base, video graphics adaptor, HP BASIC Language Processor Release II with 1 Mbyte RAM and built-in HP-IB interface, serial/parallel interface, HP Vectra DOS/PAM
HP 82319E	PC-308CM . Pre-configured HP Vectra ES/12 PC including: HP Vectra ES/12 SPU with 640 Kbyte RAM, 1.44 Mbyte 3.5-inch flexible disk drive, 40 Mbyte hard disk subsystem, 14-inch video graphics color display with tilt/swivel base, video graphics adaptor, HP BASIC Language Processor Release II with 1 Mbyte RAM and built-in HP-IB interface, serial/parallel interface, HP Vectra DOS/PAM
HP 82332E	PC-312CL . Pre-configured HP Vectra QS/16S PC including: HP Vectra QS/16S SPU with 1 Mbyte RAM, 1.44 Mbyte 3.5-inch flexible disk drive, 40 Mbyte hard disk subsystem, 14-inch video graphics color display with tilt/swivel base, video graphics adaptor, HP BASIC Language Processor Release II with 1 Mbyte RAM and built-in HP-IB interface, serial/parallel interface, HP Vectra DOS/PAM
HP 82333E	PC-312CM . Pre-configured HP Vectra QS/20 PC including: HP Vectra QS/20 SPU with 1 Mbyte RAM, 1.44 Mbyte 3.5-inch flexible disk drive, 40 Mbyte hard disk subsystem, 14-inch video graphics color display with tilt/swivel base, video graphics adaptor, HP BASIC Language Processor Release II with 1 Mbyte RAM and built-in HP-IB interface, serial/parallel interface, HP Vectra DOS/PAM
HP 82334E	PC-315CN . Pre-configured HP Vectra RS/25C PC including: HP Vectra RS/25C SPU with 1 Mbyte RAM, 1.44 Mbyte 3.5-inch flexible disk drive, 1.2 Mbyte 5.25-inch flexible disk drive, 103 Mbyte hard disk subsystem, 14-inch video graphics color display with tilt/swivel base, video graphics adaptor, HP BASIC Language Processor Release II with 1 Mbyte RAM and built-in HP-IB interface, serial/parallel interface, HP Vectra DOS/PAM



Building complex measurement sequences is easy with the HP PC-308CM.

### HP BASIC Language Processor and accessories

HP 82300C	BASIC Language Processor Release II
HP 82303A	512K RAM expansion kit
HP 82305A	RAM expansion board (512 Kbyte – expandable to 3 Mbytes)
HP 82306A	GPIO interface
HP 82307A	GPIO cable
HP 50963A	Shared Resource Manager (SRM) interface

### HP Vectra PC accessories

HP 45811A	360 Kbyte 5 1/4-inch flexible disk drive
HP 45812A	1.2 Mbyte 5 1/4-inch flexible disk drive
HP 45813A	1.44 Mbyte 3 1/2-inch flexible disk drive

### Environmental specifications

Operating temperature	5° to 40°C (41° to 104° F)
Storage temperature	- 40° to 70°C (- 40° to 158°F)
Humidity	15% to 80% RH (noncondensing)
Operating altitude	4.8km (15,000 ft.)



For more information about HP controllers and accessories, call your local HP sales office listed in your telephone directory or one of the HP regional offices listed here.

**United States:**

Hewlett-Packard Company  
4 Choke Cherry Road  
Rockville, MD 20850  
(301) 670-4300

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5201 Tollview Drive  
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