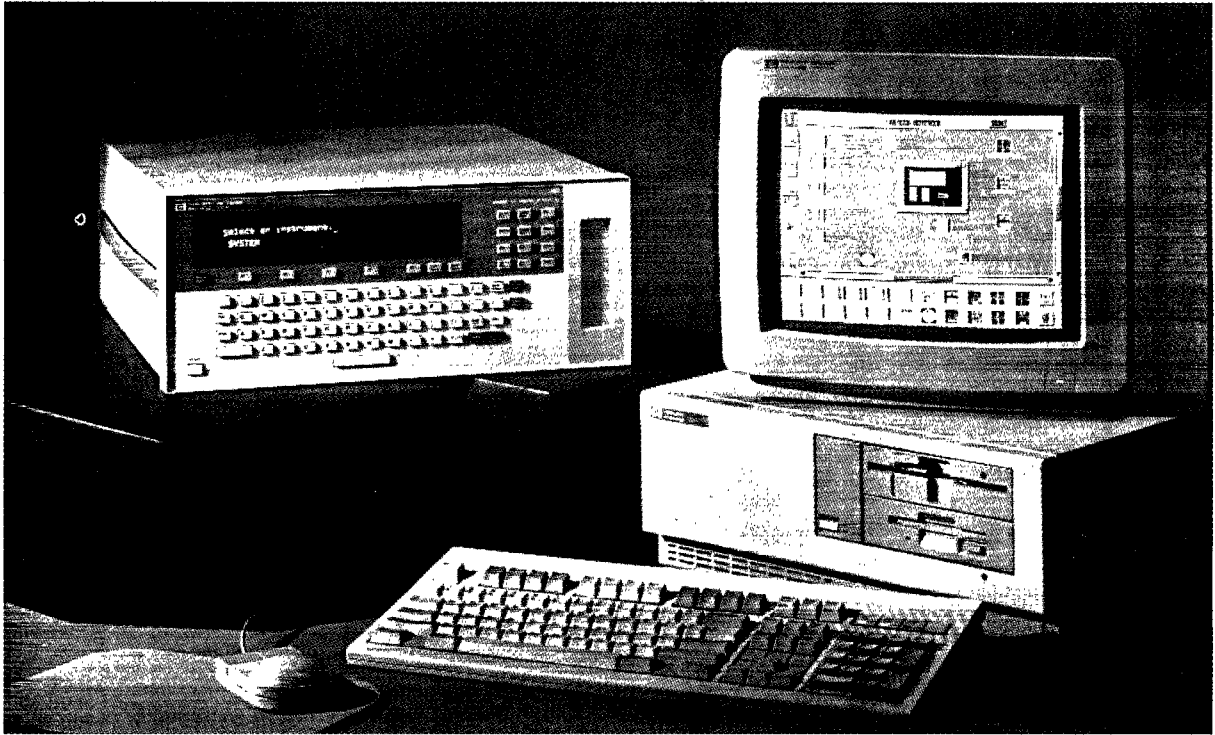


# DATA ACQUISITION SYSTEMS

Instruments for Measurement and Control

75000 Series B VXI



## HP's Data Acquisition

There are three principle HP data acquisition systems—one proprietary and two standard VXI:

- HP 3852A: Proprietary, high performance data acquisition system
- HP 75000 Series B VXI: Economical data acquisition system
- HP 75000 Model HD2000: High performance, Series C, VXI data acquisition system

## HP 75000 Series B

HP's B-size is a versatile, low-cost system that is implemented in standard VXI form. It is low cost because of the simplicity of its architecture which takes advantage of not employing the VME, P2 connector on the backplane. All cards are servants to the internal command module. The B-size also gives the flexibility of a true bench use or computer-aided use model of test.

Whether your application is in product test/evaluation, process design/test, process monitoring/characterization, or process automation/control, you will benefit from instrumentation that integrates quickly. When you purchase an HP 75000 system, you will receive:

- Optional front panel keyboard (bench application)
- Wide selection of plug-in cards
- Built-in transducer linearizations
- Flexible configuration
- Accurate, repeatable measurements

## The B-Size Data Acquisition System

The HP 75000 Series B data acquisition system is a completely self-contained system that is ideally suited for remote assignments.

To configure, first decide whether you want a front panel keyboard (for bench types of measurements) or prefer a computer-controlled system.

E1300A	Blank Front Panel
E1301A	Front Panel
Option 009	Internal Multimeter

Since the B size multimeter is internally mounted, it is a required option (009) for either configuration. Next, decide how your computer (if any) will be used in your system. Options 20, 21, 22 load IBASIC with .5M, 1, or 2 MB of RAM into the 68000-based internal command module of the B size VXI system. You can program directly in IBASIC through a terminal via RS-232 (one RS-232 interface is included in the E130XA mainframe). Or, you may download pre-edited programs (written using an editor, following IBASIC syntax rules) from your external PC over the HP-IB port controller.

Only one option may be ordered from 20, 21 and 22. Option 5, 6, and 7 provide hard disk and floppy disk capability.

## Ordering Information

- Opt 020 IBASIC with 512 KB
- Opt 021 IBASIC with 1 MB
- Opt 022 IBASIC with 2 MB
- Opt 005 3 1/2" Floppy Drive
- Opt 006 20 MB Hard Disk
- Opt 007 Floppy and Hard Disk

Next, choose the modules for the system. Up to seven modules may be installed in a mainframe.

- HP E1345A 16-Channel Relay Multiplexer
- HP E1347A 16-Channel Thermocouple Relay Multiplexer
- HP E1346A 48-Channel Single-Ended Relay Multiplexer
- HP E1355A 8-Channel 120  $\Omega$  Strain Relay Multiplexer
- HP E1356A 8-Channel 350  $\Omega$  Strain Relay Multiplexer
- HP E1351A 16-Channel FET Multiplexer
- HP E1353A 16-Channel Thermocouple FET Multiplexer
- HP E1352A 32-Channel Single-Ended FET Multiplexer
- HP E1357A 8-Channel 120  $\Omega$  Strain FET Multiplexer
- HP E1358A 8-Channel 350  $\Omega$  Strain FET Multiplexer
- HP E1330B Quad 8-Bit Digital I/O
- HP E1364A 16-Channel Form C Switch
- HP E1328A 4-Channel D/A Converter
- HP E1332A 4-Channel Counter/Totalizer
- HP E1333A 3-Channel Universal Counter
- HP E1324A RS-232C/422 Data Comm Card