

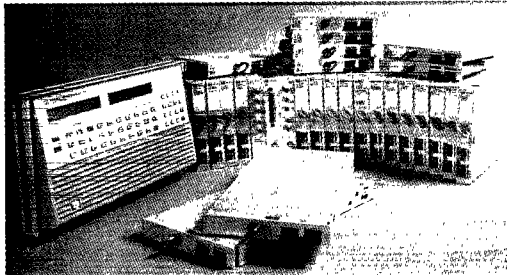
DATA ACQUISITION SYSTEMS

Instruments for Measurement and Control

HP 3852A

HP 3852A Data Acquisition and Control System

You can easily configure an HP 3852A data acquisition and control system to meet your needs for measuring physical parameters. The HP 3852A is set up to handle many different transducer inputs including thermocouples, thermistors, RTDs, and strain gages, as well as being ready to measure dc volts, currents, resistances, pulse counts, frequencies, and more. The HP 3852A mainframe has eight (8) slots for plug-in function modules, and has provisions for extending the mainframe (the HP 3853A) for large systems requiring more plug-in cards.



High Speed and Accurate Analog in One System

Choose from three digital voltmeters to meet your measurement needs. The voltmeters can be used in the mainframe or the extenders, and multiple voltmeters are allowed in each mainframe.

Versatility and Expandability

With the HP 3852A you can choose from a complete set of input and output plug-in modules that provide a variety of measurement and output-controlling capabilities.

Front End, Computer, and Software-System

The HP 3852A has built-in, 68000-based intelligence to increase the speed and effectiveness of the system and to collect, analyze, and respond to data. Control decisions are handled quickly using sub-routines running within the mainframe (not having to communicate via HP-IB to an external computer in every case). This intelligence can be used to return only the most significant data to the computer, increasing its efficiency with other tasks. The power of this front-end intelligence, in combination with an HP 9000 Series 300 computer and optional data acquisition software, adapts easily to testing your product or characterizing your processes. Or, if you prefer, you may configure your system to run with a PC as the host computer, possibly incorporating the Graphical Programming Language from HP-VEE.

Ordering Information

To order, specify an HP 3852A system with the appropriate software, controller, mainframe, extenders, function modules, racks, and extra terminal modules. The HP 3852A itself has no cost—each component of the system is priced individually. ROM revision is in brackets. Please contact your local sales office for ROM upgrades, pricing, and information.

Data Acquisition Manager

HP 44458A Data Acquisition and Control Software for Series 300/200 Computers on 3½-in and 5¼-in diskettes (BASIC 4.X, 5.X, and 6.X)

HP 44458R License to Reproduce HP 44458A or 44458B, includes one set of software manuals

HP 44459A Data Acquisition and Control Software for HP Vectra Computers on 3½-in and 5¼-in diskettes (BASIC 5.3X)

HP 44459R License to Reproduce HP 44459A/44459B, includes one set of software manuals

HP 44460A HP DACQ/UX Manual and Software, ¼-in tape

Mainframe

HP 3852A Data Acquisition and Control Unit

HP 44703B Mainframe Extended Memory Card—1 MB, 2 MB, and 4 MB from Infotek Systems, 1045 S. East Street, Anaheim, CA 92805

Extender Chassis

HP 3853A Extender Chassis with 10 additional slots

Voltmeters

HP 44701A 5½- to 3½-Digit Integrating Voltmeter

HP 44702B 13-Bit High-Speed Voltmeter

HP 44703C High Speed Extended Memory Card for expanding HP 44702A buffer to over 64,000 readings

HP 44704A 16-Bit High-Speed Voltmeter

Relay Multiplexers

HP 44705A 20-Channel Relay Multiplexer

HP 44705H 20-Channel High-Voltage Relay Multiplexer

HP 44706A 60-Channel Single-Ended Relay Multiplexer

HP 44708A 20-Channel Relay Multiplexer with Thermocouple Compensation

HP 44708H 20-Channel High-Voltage Relay Multiplexer with Thermocouple Compensation

HP 44717A 10-Bridge 120 Ω Static Strain Gage Relay Multiplexer [2.0]

HP 44718A 10-Bridge 350 Ω Static Strain Gage Relay Multiplexer [2.0]

FET Multiplexers

HP 44709A 20-Channel FET Multiplexer

HP 44710A 20-Channel FET Multiplexer with Thermocouple Compensation

HP 44711A 24-Channel High-Speed FET Multiplexer

HP 44711B 24-Channel High-Speed FET Multiplexer (use with HP 44704A)

HP 44712A 48-Channel High-Speed Single-Ended FET Multiplexer

HP 44713A 24-Channel High-Speed FET Multiplexer with Thermocouple Compensation

HP 44713B 24-Channel FET Multiplexer with Thermocouple Compensation

HP 44713A/B Opt 003 Anti-Noise Filter Option

HP 44719A 10-Bridge 120 Ω Static Strain Gage FET Multiplexer

HP 44720A 10-Bridge 350 Ω Static Strain Gage FET Multiplexer

HP 44730A 4-Channel Track/Hold Multiplexer with Signal Conditioning [3.5]

HP 44732A 4-Channel 120 Ω Dynamic Strain Gage Multiplexer [3.5]

HP 44733A 4-Channel 350 Ω Dynamic Strain Gage Multiplexer [3.5]

Solid State Relay Multiplexer

HP 44705F 20-Channel Solid State Multiplexer

HP 44708F 20-Channel Solid State Multiplexer T/C

Analog Outputs

HP 44726A 2-Channel Arbitrary Waveform DAC [3.5]

HP 44727A 4-Channel Voltage DAC

HP 44727B 4-Channel Current DAC

HP 44727C 2-Channel Voltage; 2-Channel Current DAC

Stepper Motor Controller

HP 44714A 3-Channel Stepper Motor Controller/Pulse Output [3.0]

Counter

HP 44715A 5-Channel Counter/Totalizer (200 kHz)

Digital Inputs/Outputs—Switching

HP 44721A 16-Channel Digital Input with Totalize and Interrupt

HP 44722A 8-Channel AC Digital Input with Totalize and Interrupt

HP 44723A 32-Channel High-Speed Digital Sense/Control [3.0]

HP 44724A 16-Channel Digital Output

HP 44725A 16-Channel General Purpose Switch

HP 44728A 8-Channel Relay Actuator

HP 44729A 8-Channel Power Controller

Interfaces

HP 44788A HP-IB Controller [3.5]

HP 44789A Serial Interface [4.2]

Breadboard

HP 44736A Breadboard

Service and Support Products

HP 44743F Service Kit

*Only one extended memory option may be added per mainframe.