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Find the *Keysight / Agilent 3852A* at our website: ***Click HERE***

DATA ACQUISITION SYSTEMS
Instruments for Measurement and Control
HP 3852A

Serial Interface
HP 44789A
Directly provides:
- Serial programming port for the HP 3852A
- Control port for RS-232 or RS-422 devices

The HP 44789A Serial Interface allows you to:
- Interface your computer to the HP 3852A using RS-232 or RS-422 devices
- Locate the HP 3852A long distances from your host computer
- Control RS-232 or RS-422 devices directly from the HP 3852A
- Program the HP 3852A from a remote terminal

Specifications
Baud Rates: 300, 600, 1200, 2400, 4800, 9600, and 19200
Interrupts: Special character, buffer conditions, carrier detect, ring indicator, and receiver error conditions
Handshake: None, XON/XOFF, or hardware
Buffer Size: User-defined up to 8 KB on both transmitter and receiver

Arbitrary Waveform Digital-to-Analog Converter
HP 44726A
Directly outputs:
- Arbitrary waveforms
- dc voltages (2-channel, non-isolated)

The HP 44726A Arbitrary Waveform D/A Converter:
- Provides a stimulus voltage signal with a step rate of up to 800 kHz
- Gives you random-access memory (RAM) for each channel on this accessory

Digital-to-Analog Converter
HP 44727A/44727B/44727C
Directly outputs:
- dc voltage
- dc current

Simplify your test setup by providing test or control of devices with one data acquisition control system.
Specifications
dc Voltage:
Ranges: 0 to +10.235 V or −10.235 to +10.235 V
Resolution: 2.5 mV (12 bits plus a sign for bipolar range)
dc Current:
Ranges: 0 to +20.16 mA or +4 to +20.16 mA
Resolution: 2.5 μA (13 bits)

3-Channel Stepper Motor Controller
HP 44714A
Directly provides:
- Stepper motor control signals
- Limit inputs
- Built-in quadrature counters
- Pulse output

The HP 44714A 3-Channel Stepper Motor Controller lets you:
- Completely control three stepper motors with one module
- Use the module as a pulse generator

8-Channel LVDT Signal Conditioner/Multiplexer
HP 44736A Opt H05
Directly provides:
- Conditioning/multiplexing for up to 8 LVDTs
- Independent excitation source for each transducer
- Independent demodulation circuits for each transducer
- Fast FET multiplexer scanning of demodulator outputs
- Analog output for each demodulator at terminal block

The HP 44736A will help you:
- Simplify your data acquisition system configuration
- Reduce your cost per channel

5-Channel Counter/Totalizer
HP 44715A
Directly provides:
- Count measurements
- Frequency measurements
- Period measurements
- Interrupts

Reduce your costs by taking advantage of this frequency counting versatility.

Digital Inputs with Totalize and Interrupt
HP 44721A/44722A
Directly provides:
- Logic readings
- Totalize count measurements
- Interrupts

Conveniently read a variety of digital values in your system.

32-Channel High-Speed Digital Sense/Control
HP 44723A
Directly provides:
- High-speed digital input and output
- Triggered input and output
- Interrupts
- Output handshaking

The HP 44723A allows you to:
- Input 16 channels or output 16 channels over 150,000 times per second
- Capture and load 16-bit patterns with external triggers
- Interrupt on any input channel on any transition or on a user-specified 16-bit pattern

16-Channel Digital Output
HP 44724A
Directly Provides Open Drain Digital Outputs
The HP 44724A gives you convenient control of dc devices or logic levels.
Open drain outputs are used to control dc devices of up to 55 V, or drive TTL logic levels. An external power supply and external pull-up resistors are required.

Switching
HP 44725A/44728A/44729A
Directly switches:
- Voltage
- Current
- Power

Reliably switch the voltage, current, or power you need.

Binary Mode Software
HP 44790A
HP 44790A Binary Mode Software is a collection of subprograms used to access high-speed opcodes within the HP 3852A. It helps system programmers increase the run-time speed of data acquisition functions up to *five times* over standard high-level commands. The software is written for the professional programmer familiar with opcode programming. HP systems engineers can provide consulting services for those unfamiliar with this type of programming.
System Requirements
Binary Mode Software requires HP 3852A firmware Rev. 3.5 or later. It is supplied on a 3½-in single-sided disk. The subprograms are written in HP BASIC in modular form, so they can be ported to other languages.

HP-IB Controller
HP 44788A
Directly controls:
- HP-IB disk drives (CS80/SS80)
- HP-IB printers
- HP-IB instruments

The HP-IB Controller lets you:
- Conduct remote operations without a computer
- Load subroutines at power-up into an HP 3852A from an HP-IB disk drive and start executing the subroutines
- Send data to an HP-IB disk drive without using a computer
- Print out data stored in the HP 3852A without using a computer
- Control other HP-IB instruments directly through the HP 3852A

32-Channel Isolated Digital Input/Interrupt
HP Z2204A
Directly provides:
- Logic readings
- Positive and negative interrupts
- Change of state interrupts

2 sets of three handshake lines usable for banks of 16 or 32 channels (Strobe In, Ready for Data, and Interrupt Out)

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