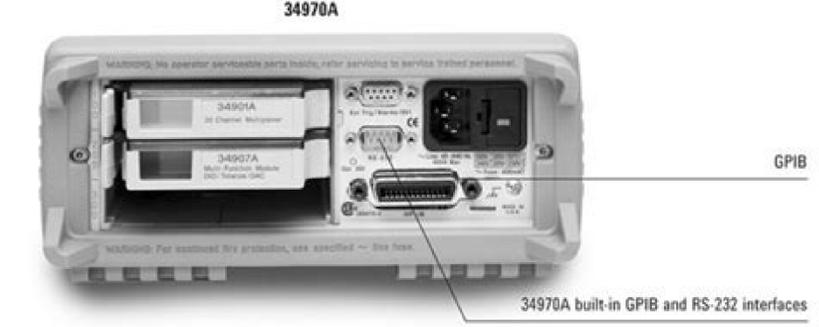
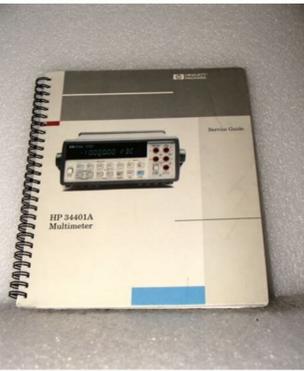
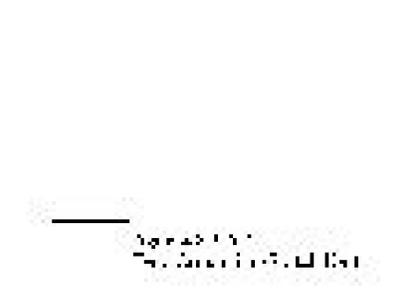
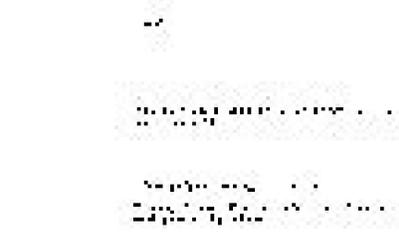


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Page 1 User's Guide Part Number 34970-90002 October 1997 For Safety information, Warranties, and Regulatory information, see the pages behind the Index. © Copyright Hewlett-Packard Company 1997 All Rights Reserved. HP 34970A Data Acquisition / Switch Unit... Page 2 The HP 34970A combines precision measurement capability with flexible signal connections for your production and development test systems. Three module slots are built into the rear of the instrument to accept any combination of data acquisition or switching modules. The combination of data logging and data acquisition features makes this instrument a versatile solution for your testing requirements now and in the future. Page 3 The Front Panel at a Glance Denotes a menu key. See the next page for details on menu operation. State Storage / Remote Interface Menus 2 Scan Start / Stop Key 3 Measurement Configuration Menu 4 Scaling Configuration Menu 5 Alarm / Alarm Output Configuration Menu 6 Scan-to-Scan Interval Menu 7 Scan List Single Step / Read Key 8 Advanced Measurement / Utility Menus... Page 4 The Front-Panel Menus at a Glance Several of the front-panel keys guide you through menus to configure various parameters of the instrument (see previous page). The following steps demonstrate the menu structure using the Tip: To review the current configuration of a specific menu, press the menu key several times. A message NO CHANGES is displayed when you exit the menu. Page 5 Display Annunciators SCAN Scan is in progress or enabled. Press and hold Monitor mode is enabled. Press VIEW Scanned readings, alarms, errors, or relay cycles are being viewed. CONFIG Channel configuration is in progress on displayed channel. Measurement is in progress. ADRS Instrument is addressed to listen or talk over the remote interface. Page 6 Advance Input / Channel Closed Output 3 RS-232 Interface Connector Use the Select the HP-IB or RS-232 interface (see chapter 2). Set the HP-IB address (see chapter 2). Set the RS-232 baud rate, parity, and flow control mode (see chapter 2). Page 7 HP BenchLink Data Logger Software at a Glance HP BenchLink Data Logger is a Windows-based application designed to make it easy to use the HP 34970A with your PC for gathering and analyzing measurements. Use the software to set up your test, acquire and archive measurement data, and perform real-time display and analysis of your incoming measurements. Page 8 The Plug-In Modules at a Glance For complete specifications on each plug-in module, refer to the module sections in chapter 9. HP 34901A 20-Channel Armature Multiplexer 20 channels of 300 V switching Two channels for DC or AC current measurements (100 mA to 1A) Page 9 Use this module for those applications that require high-integrity contacts or quality connections of non-multiplexed signals. This module can switch 300 V, 1 A (50 W maximum switch power) to your device under test or to actuate external devices. Screw terminals on the module provide access to the Normally-Open, Normally-Closed, and Common contacts for each of the 20 switches. Page 10 For greater flexibility, you can read digital inputs and the count on the totalizer during a scan. HP 34908A 40-Channel Single-Ended Multiplexer 40 channels of 300 V single-ended (common LO) switching Built-in thermocouple reference junction... Page 11 1-800-452-4844 in the United States, or contact your nearest Hewlett-Packard Sales Office. If your HP 34970A fails within three years of original purchase, we will repair or replace it free of charge. Call 1-800-258-5165 and ask for "Express Exchange."... Contents Chapter 1 Quick Start To Prepare the Instrument for Use 17 Installing HP BenchLink Data Logger Software 18 To Connect Wiring to a Module 20 To Set the Time and Date 22 To Configure a Channel for Scanning 23... Page 13 Module Overview 163 HP 34901A 20-Channel Multiplexer 164 HP 34902A 16-Channel Multiplexer 166 HP 34903A 20-Channel Actuator 168 HP 34904A 4x8 Matrix Switch 170 HP 34905A/6A Dual 4-Channel RF Multiplexers 172 HP 34907A Multifunction Module 174 HP 34908A 40-Channel Single-Ended Multiplexer 176... Page 14 Alarm System Overview 247 Digital Input Commands 255 Totalizer Commands 256 Digital Output Commands 258 DAC Output Commands 258 Switch Control Commands 259 State Storage Commands 261 System-Related Commands 264 Interface Configuration Commands 269 RS-232 Interface Configuration 270 Modem Communications 274... Page 15 AC Accuracy Specifications 406 AC Measurement and Operating Characteristics 408 Module Specifications 409 HP BenchLink Data Logger Software Specifications 412 Product and Module Dimensions 413 To Calculate Total Measurement Error 414 Interpreting Internal DMM Specifications 416... Quick Start... This chapter is divided into the following sections: To Prepare the Instrument for Use, on page 17 Installing HP BenchLink Data Logger Software, on page 18 To Connect Wiring to a Module, on page 20 To Set the Time and Date, on page 22... Page 18 The self-test will begin when you release the key following the beep. If the self-test fails, see the HP 34970A Service Guide for instructions on returning the instrument to Hewlett-Packard for service. Installing HP BenchLink Data Logger Software Installing HP BenchLink Data Logger Software If you ordered the HP 34970A with the internal DMM, then the HP BenchLink Data Logger software is included. The software is shipped on one CD-ROM, but includes a utility to build installation floppy disks. Page 20 You have the option to create an installation on floppy disks from the installation utility. This utility is provided so that you can CD-ROM install HP BenchLink Data Logger on a computer that does not have a drive. CD-ROM Note: You will need a total of five (5) formatted floppy disks to create an installation. Chapter 1 Quick Start To Connect Wiring to a Module To Connect Wiring to a Module 1 Remove the module cover. 3 Route wiring through strain relief. Cable Tie Wrap (optional) 5 Install the module into mainframe. Channel Number: Slot Channel Connect wiring to the screw terminals. Page 22 RTD Types: 0.00385, 0.00391 Thermistor Types: 2.2 k, 5 k, 10 k DC Current / AC Current Wiring only on channels 21 and 22 on the HP 34901A. Ranges: 0 mA, 100 mA, 1A DC Voltage / AC Voltage / Frequency... Chapter 1 Quick Start To Set the Time and Date To Set the Time and Date All readings during a scan are automatically time stamped and stored in non-volatile memory. In addition, alarm data is time stamped and stored in a separate non-volatile memory queue. 1 Set the time of day. (102, 110, etc.). Note: You can use or next slot. For this example, assume that you have the HP 34901A multiplexer installed in slot 100 and select channel 103. 2 Select the measurement parameters for the selected channel. Page 25 Chapter 1 Quick Start To Configure a Channel for Scanning Note: Press to sequentially step through the scan list and take a measurement on each channel (readings are not stored in memory). This is an easy way to verify your wiring connections before initiating the scan. Chapter 1 Quick Start To Copy a Channel Configuration To Copy a Channel Configuration After configuring a channel to be included in the scan list, you can copy that same configuration to other channels in the instrument (including digital channels on the multifunction module). This feature makes it easy to configure several channels for the same measurement. To Close a Channel To Close a Channel On the multiplexer and switch modules, you can close and open individual relays on the module. However, note that if you have already configured any multiplexer channels for scanning, you cannot independently close and open individual relays on that module. The instrument is shipped from the factory with a 500 mA fuse installed. This is the correct fuse for all line voltages. See the next page if you need to replace the power-line fuse. To replace the 500 mA fuse, order HP part number 2110-0458. Page 29 Verify that the correct line voltage is selected and the power-line fuse is good. Remove the line-voltage selector from the assembly. Fuse: 500 mA (for all line voltages) HP Part Number: 2110-0458 Replace the fuse-holder assembly in the rear panel. Chapter 1 Quick Start To Adjust the Carrying Handle To Adjust the Carrying Handle To adjust the position, grasp the handle by the sides and pull outward. Then, rotate the handle to the desired position. Bench-top viewing positions Carrying position... Instructions and mounting hardware are included with each rack-mounting kit. Any HP system II instrument of the same size can be rack-mounted beside the HP 34970A. Note: Remove the carrying handle, and the front and rear rubber bumpers, before rack-mounting the instrument. Page 32 Chapter 1 Quick Start To Rack Mount the Instrument To rack mount a single instrument, order adapter kit 5063-9240. To rack mount two instruments side-by-side, order lock-link kit 5061-9694 and flange kit 5063-9212. Be sure to use the support rails inside the rack cabinet. To install one or two instruments in a sliding support shelf, order shelf 5063-9255, and slide kit 1494-0015 (for a single instrument, also order filler panel 5002-3999). Front-Panel Overview... Page 34 Front-Panel Overview This chapter introduces you to the front-panel keys and menu operation. This chapter does not give a detailed description of every front-panel key or menu operation. It does, however, give you a good overview of the front-panel menu and many front-panel operations. See chapter 4 "Features and Functions,"... Chapter 2 Front-Panel Overview Front-Panel Menu Reference Front-Panel Menu Reference This section gives an overview of the front-panel menus. The menus are designed to automatically guide you through all parameters required to configure a particular function or operation. The remainder of this chapter shows examples of using the front-panel menus. Page 36 Store up to five instrument states in non-volatile memory. Assign a name to each storage location. Recall stored states, power-down state, factory reset state, or preset state. Configure the remote interface. Select the HP-IB address. Configure the RS-232 interface (baud rate, parity, and flow control). Chapter 2 Front-Panel Overview To Monitor a Single Channel To Monitor a Single Channel You can use the Monitor function to continuously take readings on a single channel, even during a scan. This feature is useful for troubleshooting your system before a test or for watching an important signal. 1 Select the channel to be monitored. Chapter 2 Front-Panel Overview To Set a Scan Interval To Set a Scan Interval you can set the instrument's internal timer to automatically scan at a specific interval (e.g., start a new scan sweep every 10 seconds) or when an external TTL trigger pulse is received. You can configure the instrument to scan continuously or to stop after sweeping through the scan list a specified number of times. Chapter 2 Front-Panel Overview To Apply Mx+B Scaling To Measurements To Apply Mx+B Scaling to Measurements The scaling function allows you to apply a gain and offset to all readings on a specified multiplexer channel during a scan. In addition to setting the gain ("M") and offset ("B") values, you can also specify a custom measurement label for your scaled readings (RPM, PSI, etc.). Chapter 2 Front-Panel Overview To Configure Alarm Limits To Configure Alarm Limits The instrument has four alarm outputs which you can configure to alert you when a reading exceeds specified limits on a channel during a scan. You can assign a high limit, a low limit, or both to any configured channel in the scan list. Page 41 Chapter 2 Front-Panel Overview To Configure Alarm Limits 4 Set the limit value. The alarm limit values are stored in non-volatile memory for the specified channels. The default values for the high and low limits are "0". The low limit must always be less than or equal to the high limit, even if you are using only one of the limits. To Read a Digital Input Port To Read a Digital Input Port The multifunction module (HP 34907A) has two non-isolated 8-bit input/output ports which you can use for reading digital patterns. You can read the live status of the bits on the port or you can configure a scan to include a digital read. Chapter 2 Front-Panel Overview To Write to a Digital Output Port To Write to a Digital Output Port The multifunction module (HP 34907A) has two non-isolated 8-bit input/output ports which you can use for outputting digital patterns. 1 Select the Digital Output port. To Read the Totalizer Count To Read the Totalizer Count The multifunction module (HP 34907A) has a 26-bit totalizer which can count pulses at a 100 kHz rate. You can manually read the totalizer count or you can configure a scan to read the count. Chapter 2 Front-Panel Overview To Output a DC Voltage To Output a DC Voltage The multifunction module (HP 34907A) has two analog outputs capable of outputting calibrated voltages from 12 volts. 1 Select a DAC Output channel. Select the slot containing the multifunction module and continue turning the knob until DAC is displayed (channel 04 or 05). To Configure the Remote Interface To Configure the Remote Interface The instrument is shipped with both an HP-IB (IEEE-488) interface and an RS-232 interface. Only one interface can be enabled at a time. The HP-IB interface is selected when the instrument is shipped from the factory. Page 47 Chapter 2 Front-Panel Overview To Configure the Remote Interface RS-232 Configuration 1 Select the RS-232 interface. Interface 2 Select the baud rate. Interface Select one of the following: 1200, 2400, 4800, 9600, 19200, 38400, 57600 (factory setting), or 115200 baud. 3 Select the parity and number of data bits. Chapter 2 Front-Panel Overview To Store the Instrument State To Store the Instrument State You can store the instrument state in one of five non-volatile storage locations. A sixth storage location automatically holds the power-down configuration of the instrument. When power is restored, the instrument can automatically return to its state before power-down (a scan in progress before power-down will also be resumed). System Overview... Control Output, starting on page 67 Data Acquisition System Overview You can use the HP 34970A as a stand-alone instrument but there are many applications where you will want to take advantage of the built-in connectivity features. A typical data acquisition system is shown below. Page 51 Data transfers up to 85,000 characters/sec. You can overcome these cable length limitations using special communications hardware. For example, you can use the HP E2050A LAN-to-HP-IB Gateway interface or a serial modem. HP-IB (IEEE-488) Advantages Disadvantages Speed; faster data and Cable length is limited command transfers. Page 52 Data Logging and Monitoring HP BenchLink Data Logger is a Windows to make it easy to use the HP 34970A with your PC for gathering and analyzing measurements. The software is included with the HP 34970A when you order the internal DMM. Use this software to set up your test, acquire and archive measurement data, and perform real-time display and analysis of your incoming measurements. Page 53 Data Acquisition System Overview The HP 34970A Data Acquisition / Switch Unit As shown below, the logic circuitry for the HP 34970A is divided into two sections: earth-referenced and floating. These two sections are isolated from each other in order to maintain measurement accuracy and repeatability (for more information on ground loops, see page 341). Page 54 Chapter 3 System Overview Data Acquisition System Overview Plug-In Modules The HP 34970A offers a complete selection of plug-in modules to give you high-quality measurement, switching, and control capabilities. The plug-in modules communicate with the floating logic via the internal isolated digital bus. Page 55 Chapter 3 System Overview Data Acquisition System Overview System Cabling The plug-in modules have screw-terminal connectors to make it easy to connect your system cabling. The type of cabling that you use to connect your signals, transducers, and sensors to the module is critical to measurement success. Page 56 System Status Alarm Limits The HP 34970A has four alarm outputs which you can configure to alert you when a reading exceeds specified limits on a channel during a scan. You can assign a high limit, a low limit, or both to any configured channel in the scan list. Signal Routing and Switching The switching capabilities of the plug-in modules available with the HP 34970A provide test system flexibility and expandability. You can use the switching plug-in modules to route signals to and from your test system or multiplex signals to the internal DMM or external instruments. Page 58 Chapter 3 System Overview Signal Routing and Switching Multiplexer Switching Multiplexers allow you to connect one of multiple channels to a common channel, one at a time. A simple 4-to-1 multiplexer is shown below. When you combine a multiplexer with a measurement device, like the internal DMM, you create a scanner. Page 59 It is important to make sure that dangerous or unwanted conditions are not created by these connections. Form C (SPDT) Switching The HP 34903A Actuator contains 20 Form C switches (also called single-pole, double-throw). You can use Form C switches to route signals but they are typically used to control external devices. Measurement Input Measurement Input The HP 34970A allows you to combine a DMM (either internal or external) with multiplexer channels to create a scan. During a scan, the instrument connects the DMM to the configured multiplexer channels one at a time and makes a measurement on each channel. Page 61 You can select the resolution and reading speed from 6 digits (22 bits) at 3 readings per second to 4 digits (16 bits) at up to 600 readings per second. The Advanced menu from the HP 34970A front panel allows you to control the integration period for precise rejection of noise signals. Page 62 Chapter 3 System Overview Measurement Input Main Processor The main processor, located in the floating logic section, controls the input signal conditioning, ranging, and the ADC. The main processor accepts commands from, and sends measurement results to, the earth-referenced logic section. The main processor synchronizes measurements during scanning and control operations. Page 63 Chapter 3 System Overview Measurement Input You can configure the event or action that controls the onset of each sweep through the scan list (a sweep is one pass through the scan list). You can set the instrument's internal timer to automatically scan at a specific interval as shown below. Page 64 Scanning With External Instruments If your application doesn't require the built-in measurement capabilities of the HP 34970A, you can order it without the internal DMM. In this configuration, you can use the HP 34970A for signal routing or control applications. Page 65 Chapter 3 System Overview Measurement Input The Multifunction Module The multifunction module (HP 34907A) adds two additional measurement input capabilities to the system: digital input and event totalize. The multifunction module also contains a dual voltage output (DAC) which is described in more detail on page 68. Page 66 Chapter 3 System Overview Measurement Input Totalizer The multifunction module has a 26-bit totalizer which can count pulses at a 100 kHz rate. You can manually read the totalizer count or you can configure a scan to read the count. 26 Bits Totalize Gate... Control Output Control Output In addition to signal routing and measurement, you can also use the HP 34970A to provide simple control outputs. For example, you can control external high-power relays using the actuator







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