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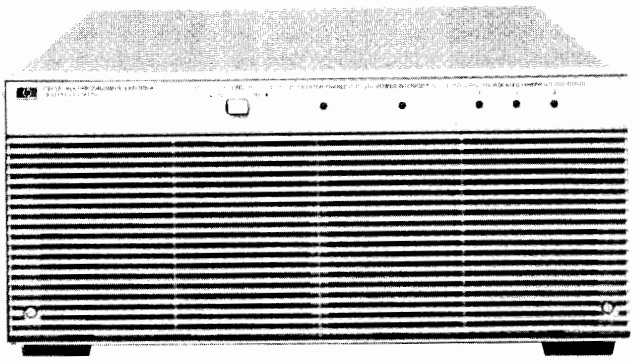
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Find the *Keysight / Agilent 6942A* at our website: ***Click HERE***

Multiprogrammer: Versatile Automatic Test, Data Acquisition and Control

Model 6942A

- Action-oriented instructions
- Isolated analog inputs and outputs
- Built-in self test
- Overlapped input and output
- Internal or external pacing
- Easy to configure



6942A

DESIGNED FOR HP-IB SYSTEMS

The Multiprogrammer Performs Operations in Parallel

With this one instrument you can control several processes at once. And, while you are controlling the processes, the Multiprogrammer can also be watching for interrupt conditions. The internal microprocessor manages all the parallel operations and monitors the alarm lines; when the operations have completed or if an alarm condition occurs, the Multiprogrammer interrupts the controller.

How does the 6942A Connect With Your Controller?

The 6942A Multiprogrammer interfaces with your controller (desktop or minicomputer) using the HP-IB, Hewlett-Packard's implementation of IEEE Standard 488 and the identical ANSI Standard MC1.1. Data and status readback make use of the extended bus addressing features of the HP-IB.

Programming Flexibility

Mnemonic, action-oriented instructions make the 6942A Multiprogrammer simple to learn and use. For instance, the output instruction "OP" works with all output cards. When you send an instruction, the internal microprocessor checks which type of card you are addressing and automatically converts the data to the proper format for that card. You select the units with which you want to program each card. Whether you want to use volts, millivolts, amps, degrees, feet, or any other units, the Multiprogrammer does the converting for you.

Mainframe Memory Unburdens The Controller

The mainframe memory of the 6942A will accept up to 76 instructions from the controller at one time. This leaves your controller free for other processing activities while the Multiprogrammer works on the I/O operations. This mainframe memory may also be used to collect up to 1440 data readings and hold them until the controller is free to take them. For even more data storage, 4K Memory Cards, 69790B, may be used to store 4096 16-bit words of input or output data.

Real Time Clock

Built-in real-time clock gives you time-of-day readings and pacing of measurements. The clock detects which power line frequency you are using, 50 Hz, or 60 Hz, and automatically synchronizes itself to this frequency. The range of the clock is 65,534 days, with resolution to a tenth of a second.

Computers and Documentation

The 6942A can be operated with a wide variety of computers, including the HP Series 80, Series 200, Series 1000, 9825, and 9845 computers. Documentation packages are available for all of these computers. Each one contains a User's Guide with programming examples, a utility program tape or flexible disc, operating and service manuals, and a binder to hold this material. One no charge documentation option must be specified to select the documentation appropriate for your computer.

Accessories

14700A extender kit: this kit contains the transmission boards which go into the master mainframe (6942A) and the last extender mainframe in the chain.
14701A intermediate extender kit: when more than two mainframes are in a chain, the card in this kit must be used in each intermediate extender mainframe.
14702A chaining cable: this is the cable which chains together the master and extender mainframes. One cable is required for each extender mainframe. Length: 1.5 m (5 ft).
14703A card edge connector: extra connectors for the I/O cards may be ordered in addition to the one supplied with each I/O card.

6942A/6943A Specifications

Plug-in I/O card positions: maximum of 16 plug-in output or input cards per mainframe. Removable rear cover provides access to card slots.
Computer interface (6942A only): the Multiprogrammer is connected to a controller via the Hewlett-Packard Interface Bus (HP-IB), Hewlett-Packard's implementation of IEEE Std. 488.
Real time clock (6942A only): the built-in real time clock is automatically synchronized with the 50/60 Hz ac power line frequency. The clock is read and set with data in the form of days, hours, minutes and seconds with a resolution of 0.1 seconds.
Extender interface kits (6943A only): each 6943A Extender requires one 14700A or 14701A Interface Kit and one 14702A Chaining Cable for operation with the 6942A.
Maximum number of mainframes per chain: up to seven 6943A Multiprogrammer Extenders may be placed in a chain with one 6942A Multiprogrammer.
Maximum chain length: a chain of mainframes can be up to 152 meters (500 feet) long. This maximum length is the sum of the lengths of all 14702A Chaining Cables used in one chain.
Power supplies: all power supplies for up to 16 I/O cards are built-in including three ± 18 V supplies isolated from each other and from the ground.
Cooling: built-in forced air cooling draws air in through the front panel and exhausts air through the ventilated rear cover.
Front panel indicators: five light emitting diodes on the front panel indicate power supply and self-test status.
Operating temperature range: 0°C to 55°C.
Power: 100/120/220/240 Vac (selectable), +5%, −10%, 47 to 63 Hz, 600 VA.
Dimensions: 177.0 mm high x 425.5 mm wide x 597.0 mm deep, (6.969 in. high x 16.250 in. wide x 23.500 in. deep).
Weight (without I/O cards): net, 20 kg. (45 lbs). Shipping, 27 kg. (60 lbs).
Accessories furnished: PC board Extender Card (HP Part No. 5060-2792).

Ordering Information

Opt 010-386: One Set Documentation/Software
Opt 410-786: Extra Documentation/Software
Opt 908: Rack Flange Kit
Opt 910: Extra Manual
14700A Extender Interface Kit
14701A Extender Interface Kit
14702A Chaining Cable
14703A Spare Card Connector
14711A Field Service Kit
6942A Multiprogrammer
6943A Multiprogrammer Extender

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