

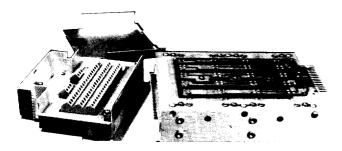
HP 3495A

Description

General

The HP 3495A Scanner switches analog input signals to an appropriate measuring device (voltmeter). It can also control external devices with relay actuator closures. Ideal for many data logging and data acquisition applications, the scanner can be used for sequential or random scanning. Any Hewlett-Packard Interface Bus (HP-IB) compatible controller can be used to operate the Scanner. Any combination of four relay assemblies (discussed below) can be used per scanner mainframe. More than four assemblies requires additional scanner mainframes.

Five optional relay assemblies are available with the scanner, four low thermal assemblies and one actuator assembly.



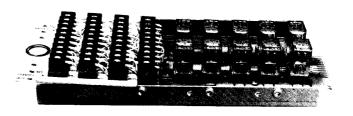
Option 004

Low Thermal Relay Multiplexer Assemblies

These assemblies are used to multiplex signals into a common detector, often a digital voltmeter. Typical applications are the multiplexing of low level dc voltages and resistances like the outputs of thermocouples, thermistors, strain gages and other transducers. Options 001 and 004 have 10 and 20 channels respectively. Options 003 and 005 have 9 and 19 channels respectively, an isothermal connector block and a thermistor to sense the temperature of the isothermal block. This gives options 003 and 005 thermocouple compensation capability.

Multiplexer Comparison

	Option 001	Option 003	Option 004/005
Number of Channels	10	9	20/19 42 V peak 40 mA <1 µV >10" ohms 10 ms max. 1 ms max. using HP 3495A high speed controller
Voltage Maximum	230 V peak	42 V peak	
Current Maximum	200 mA	200 mA	
Thermal Offset	<2 µV	<2 µV	
Isolation	>10°° ohms	>10' ohms	
Switching Time	10 ms max	10 ms max.	



Option 002

Relay Actuator Assembly

Applications: process control, actuate visual or audio indicators, control high current relays, up to $2 \times 5 \times 2$ matrix switching.

Ten Channel Relay Actuator Assembly: This relay actuator assembly provides ten independently-programmable, 2-wire closures for controlling high current relays, distributing low current de or ac voltages, or external control function. Each two-pole relay can switch currents up to 2 A rms. Any combination of channels on this assembly may be closed or opened simultaneously

Maximum contact ratings: voltage: 100V rms; Current: 2 A rms; Maximum input voltage: 230V peak; Thermal offset: < 30 µV differential EMF; Switching time: 40 ms max. (Caution: For use in circuits fused at 2 amperes or less and less than 200 VA).

General

Operating temperature: 0°C to +55°C Humidity range: 95% R.H., 0°C to +40°C Power: 100/120/220/240 +5%, -10% 48 to 66 Hz line operation, <100 VA

Size: 190.5 H x 428.6 W x 520.7 mm D (7.5" x 16.87 " x 20.5"). Weight: depends on options. Net: 18 kg (39.6 lb) maximum with four

relay assemblies. Shipping: 22 kg (48.4 lb) maximum.	ar with rour
Option	Price
001: Ten Channel Low Thermal Relay Assembly	+\$910
002: Ten Channel Relay Actuator Assembly	+\$530
003: Nine Channel Reference Assembly With Thermocouple Compensation	+\$1010
004: Twenty Channel Low Thermal Relay Assembly	+\$860
005: Nineteen Channel Reference Assembly With Thermocouple Compensation	+\$960
100: High Speed Control Board	+\$380
Field Installation Kits	
HP 44401A Ten Channel Low Thermal Relay Assembly	+\$910
HP 44402A Ten Channel Relay Actuator Assembly	+\$530
HP 44403A Nine Channel Reference Assembly With Thermocouple Compensation	+\$1010
HP 44404A Twenty Channel Low Thermal Relay Assembly	+\$860
HP 44405A Nineteen Channel Reference Assembly With Thermocouple Compensation	+\$960
HP 44413A High Speed Control Board In addition, options 001 or 004 can be field modified to	+\$380
include thermocouple compensation by ordering the appropriate terminal connectors.	
Additional Terminal Connectors for	
Ten Channel Low Thermal Relay Assembly, HP	0105
03495-64101	+\$105
Ten Channel Relay Actuator Assembly, HP 03495-64104	+\$92.50

With Thermocouple Compensation HP 44413A High Speed Control Board In addition, options 001 or 004 can be field modified to include thermocouple compensation by ordering the ap- propriate terminal connectors.	+\$380
Additional Terminal Connectors for Ten Channel Low Thermal Relay Assembly, HP	+\$105
03495-64101 Ten Channel Relay Actuator Assembly, HP 03495-	+\$92.50
64104 Nine Channel Thermocouple Reference Assembly, HP	+\$370
03495-64103 Twenty Channel Low Thermal Relay Assembly, HP	+\$160
03495A-64114 Nineteen Channel Thermocouple Reference Assembly,	+\$210
HP 03495-64115 HP 3495A Scanner	\$2200