

Math Functions: The HP 3457A performs the following math functions on the measurements—NULL, SCALE, OFFSET, RMS FILTER, SINGLE POLE FILTER, THERMISTOR LINEARIZATION, DB, DBM, % ERROR, PASS/FAIL LIMIT TESTING, and STATISTICS. Two math functions may be used at one time.

General Specifications

Operating Temperature: 0 to 55° C

Warmup Time: one hour to all specifications except where noted

Humidity Range: 95% R.H., 0 to 40° C

Storage Temperature: -40 to +75° C

Power: 100/120/220/240 V $\pm 10\%$, 48 Hz - 66 Hz, 220 V, $\pm 10\%$, 48 Hz to 66 Hz. Fused at .2A (115 V) or 0.08 A (230 V). <30 VA.

Size: 89 mm H (without removable feet) x 425mm W x 292mm D (3.5" x 16.75" x 11.5"). Height (with removable feet): 100 mm (4"). Allow 76mm (3") additional depth for wiring.

Net Weight: 5.05 kgm (11.1 lbs)

Shipping Weight: 9.3 kgm (20.5 lbs)

Plug-in Options

HP 44491A Armature Relay Multiplexer Assembly Input Characteristics: Eight two-wire armature relay channels and two current/actuator channels. Maximum voltage (terminal-to-terminal or terminal to chassis) 250 Vrms. Maximum current (per channel) —1.0 A DC or AC. Thermal Offset - 3uV. Closed channel resistance (end of relay life) - <2 Ohms. Maximum switching and measurement speed - 33 channels/second.

HP 44492A Reed Relay Multiplexer Assembly Input Characteristics: Ten two-wire reed relay channels. Maximum voltage (terminal-to-terminal or terminal-to-chassis) - 125 V peak. Thermal offset - 3 uV. Closed channel resistance (end of relay life) - <4 Ohms. Specified for < 100 kHz ac volts and frequency operation. Maximum switching and measurement speed - 300 channels/second.

HP 44497A High Voltage Attenuator Assembly Input Characteristics: Two relay channels, channel 1 devoted to high voltage measurements. Maximum High-to-Low voltage of 1000 Volts DC or AC rms. Maximum Low-to-Earth voltage of 350 V Peak Non-destructive Overload voltage of 1700 V Peak, 1200 Volts DC. Attenuator accuracy to be added to HP 3457A range and function accuracy for total accuracy.

DC	0.030% of reading
20 Hz - 1 KHz	2.8% of reading
1 KHz - 10 KHz	10.0% of reading

Note: One year accuracy applies to Tcal $\pm 5\%$, NPLC=1 or greater. Specifications are for low-to-earth voltage less than 0.1 times the High-to-Earth voltage.

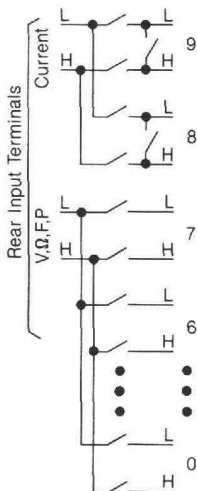
Model 3457A Multimeter

	Price
*HP 44491A Armature Relay Multiplexer Assembly	\$470
*HP 44492A Reed Relay Multiplexer Assembly	\$470
*HP 44497A High Voltage Attenuator Assembly	\$390
Option 401: Side Handle Kit (P/N 5061-1171)	\$40
Option 700: CIIL Language	\$990
Option 907: Front Handle Kit (P/N 5061-1170)	\$51
Option 908: Rack Flange Kit (P/N 5061-1168)	\$32
Option 909: Rack Flange and Front Handle Kit (P/N 5061-1169)	\$75
Option 910: Extra Operating and Service Manual	\$110
Option W30: Two years of additional hardware support	\$80
Accessories:	
HP 44490A Rack Slide Kit for 30 inch depth racks	\$230
HP 44493A Screw Terminal Connector for HP 44491A includes strain relief and housing	\$63
HP 44494A Screw Terminal Connector for HP 44492A includes strain relief and housing	\$63
HP 34118A Test Lead Kit	\$27 ☎
HP 34301A RF Detector Probe, 100 KHz to 700 MHz	\$80 ☎
HP 34300A 40 Kv ac/dc Probe, dc to 300 Hz	\$90 ☎
HP 34119A High Voltage Probe, 1000:1, AC & DC Voltage Divider for up to 5000V	\$130 ☎
HP 44414A: Four Thermistor Pack	\$63 ☎

*Plug-in options may be ordered and shipped separately without a HP 3457A mainframe. Unless otherwise specified, the optional plug-in accessories will be shipped with the HP 3457A mainframe.

☎ Fast Ship Product—see page 734.

Armature Relay (44491A)



Reed Relay (44492A)

