

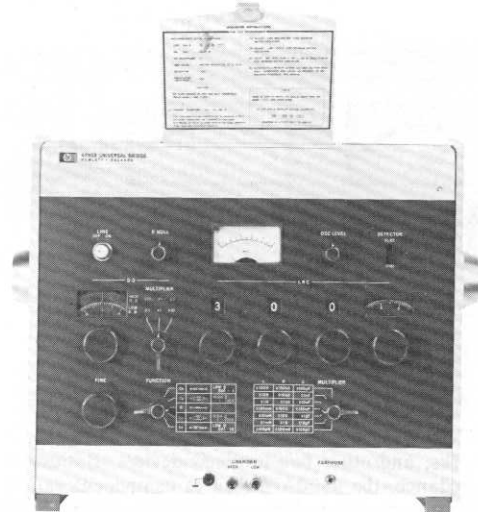
4260A

4260A Description

Measurements of C, R, L, D and Q are easily made with Hewlett-Packard's Model 4260A Universal Semi-Automatic Impedance Bridge.

Nulling is easily accomplished with a unique auto-balance circuit. Illuminated pointers (<CRL>) automatically indicate whether a null is up- or down-scale. Both range and CRL controls can be set watching these pointers.

Components may be biased by connecting a battery to rear terminals. An external oscillator and detector can be used for measurements in the 20 Hz–20 kHz range.



4265B

4265B Description

Hewlett-Packard's Model 4265B Universal Bridge provides an economical way to make precision measurements of L, C, or R and D or Q. Components can be measured in ranges of 0.1 μH to 1111 H in inductance, 0.1 pF to 1111 μF in capacitance and 0.1 m Ω to 1.111 M Ω in resistance with a basic measurement accuracy of 0.2% of reading for L, C, and R.

Measurement frequency range is 50 Hz to 10 kHz with an external oscillator, and 1 kHz with internal oscillator.

Specifications

Model		4260A			4265B	
Full scale ranges	C	1000 pF to 1000 μF , 7 ranges			1000.0 pF to 1000.0 μF , 7 ranges	
	L	1000 μH to 1000 H, 7 ranges			1000.0 μH to 1000.0 H, 7 ranges	
	R	10 Ω to 10 M Ω , 7 ranges			1000.0 m Ω to 1.0000 M Ω , 7 ranges	
Range	C	1 pF to 1 nF	1 nF to 100 μF	100 μF to 1000 μF	all ranges except —	1000.0 μF range only
	L	1 μH to 1 mH	1 mH to 100 H	100 H to 1000 H	all ranges except —	1000.0 μH range only
	R	10 m Ω to 10 Ω	10 Ω to 1 M Ω	1 M Ω to 10 M Ω	all ranges except —	1000.0 m Ω range only
Accuracy (% of reading)		$\pm(2\% + 1 \text{ digit})$	$\pm(1\% + 1 \text{ digit})$	$\pm(2\% + 1 \text{ digit})$	$\pm(0.2\%$ of reading + 0.01% of F.S.)	$\pm(0.4\%$ of reading + 0.01% of F.S.)
D	Range	LOW D (series C) 0.001 to 0.12	HIGH D (parallel C) 0.05 to 20		series C 0.001 to 1	parallel C 0.1 to 1000
	Accuracy	$\pm \frac{2}{\sqrt{D}}$ %	$+(10 D \text{ of reading} + 4)\%$ $-(10/\sqrt{D} \text{ of reading} + 2)\%$		$\pm(5\%$ of reading + 2 minor divisions)	$\pm(5\%$ of rdg + 2 minor divisions) for 1/D
Q	Range	LOW Q (series L) 0.05 to 20	HIGH Q (parallel L) 8 to 1000		series L 0.001 to 10	parallel L 1 to 1000
	Accuracy	$+(10/Q \text{ of reading} + 4)\%$ $-(10/\sqrt{Q} \text{ of reading} + 2)\%$	$\pm 2\sqrt{Q}$ of reading %		$\pm(5\%$ of reading + 2 minor divisions)	$\pm(5\%$ of rdg + 2 minor divisions) for 1/Q
Oscillator		internal: 1 kHz $\pm 2\%$, 100 mV rms $\pm 20\%$ external: 20 Hz to 20 kHz, ≤ 2 V rms.			internal: 1 kHz ± 15 Hz, ≤ 0.4 V rms external: 50 Hz to 10 kHz or dc for R-measurement; ≤ 4 V rms	
DC bias		Voltage ≤ 6 V, current ≤ 10 mA			Voltage ≤ 250 V, current ≤ 10 mA	

General (4260A)

Power: 115 or 230 volts $\pm 10\%$, 50–60 Hz, approx. 7 VA.

Size: 166 mm H x 198 mm W x 279 mm D (6.5" x 7.8" x 11").

Weight: Net, 5 kg (11 lb). Shipping, 6.8 kg (15 lb).

Options

Opt 910: Extra Manual

4260A Universal Bridge

Price
add \$11

\$1780

General (4265B)

Power: 100/120/200/240 V $\pm 10\%$; 48 to 440 Hz, 5 VA.

Size: 376 mm H x 393 mm W x 115 mm D (14.8" x 15.5" x 4.5").

Weight: Net, 5.5 kg (12.1 lb). Shipping, 7.1 kg (15.7 lb).

Ordering Information

16029A Test Fixture

Opt 910: Extra Manual

4265B Universal Bridge

Price
\$160

add \$11

\$1725