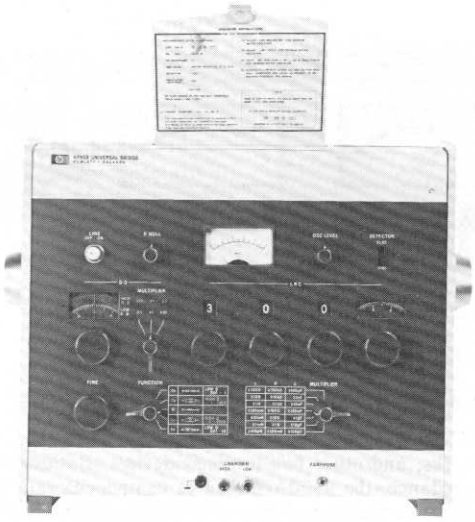
4260A



4265B

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 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 mΩ to 1.111 MΩ 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 MΩ, 7 ranges			1000.0 mΩ to 1.0000 MΩ, 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 mΩ to 10 Ω	10 Ω to 1 MΩ	1 MΩ to 10 MΩ	all ranges except →	1000.0 mΩ range only
Accuracy (% of reading)		±(2% + 1 digit)	±(1% + 1 digit)	±(2% + 1 digit)	±(0.2% of reading + 0.01% of F.S.)	±(0.4% of reading + 0.01% of F.S.)
D Range		LOW D (series C)		HIGH D (parallel C)	series C	parallel C
		0.001 to 0.12		0.05 to 20	0.001 to 1	0.1 to 1000
D Accuracy		$\pm \frac{2}{\sqrt{D \text{ of reading}}}$ %		+(10 D of reading + 4)% $-(10\sqrt{D \text{ of reading}} + 2)\%$	±(5% of reading + 2 minor divisions)	±(5% of rdg + 2 minor divisions) for 1/D
Q Range		LOW Q (series L)		HIGH Q (parallel L)	series L	parallel L
		0.05 to 20		8 to 1000	0.001 to 10	1 to 1000
Q Accuracy		$+(10/Q \text{ of reading} + 4)\%$ $-(10/\sqrt{Q \text{ of reading}} + 2)\%$		$\pm 2\sqrt{Q \text{ of reading}}\ \%$	±(5% of reading + 2 minor divisions)	±(5% of rdg + 2 minor divisions) for 1/Q
Oscillator		**internal:** 1 kHz ±2%, 100 mV rms ± 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 ±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	Price
Opt 910: Extra Manual	add $11
4260A Universal Bridge	**$1780**

General (4265B)

Power: 100/120/200/240 V ±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	Price
16029A Test Fixture	$160
Opt 910: Extra Manual	add $11
4265B Universal Bridge	**$1725**