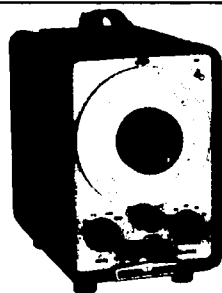


SIGNAL SOURCES

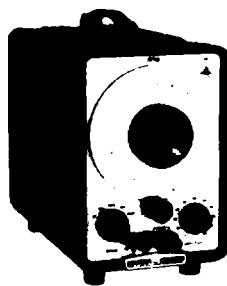


AUDIO OSCILLATORS

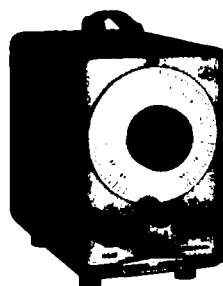
Exceptional value, highest quality
Models 200AB, 200CD, 201C, 202C



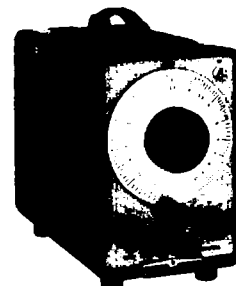
200AB



200CD



201C



202C

Description

The Hewlett-Packard series oscillators have high stability and accurate, easily resettable tuning circuits. Low-impedance operating levels together with superior insulation guarantee peak performance throughout years of trouble-free service. The instruments have a wide frequency range and long dial lengths and feature an improved vernier frequency control. Operation is simplified—just three controls are required. Instruments are compact, light in weight, and enclosed in a convenient, aluminum case with carrying handle. They occupy minimum bench space and are easily portable. Rack mounting is available on order.

The 200AB sinewave oscillator's frequency range of 20 Hz to 40 kHz is covered in four overlapping decade bands. The oscillator provides 1 W or 24.5 V into 600Ω load. The output circuit is balanced and floating over the entire frequency range so that the instrument may be used to drive off-ground loads.

The 200CD covers the range of 5 Hz to 600 kHz in five overlapping decade bands. Accurate frequency is provided by 112 dial divisions and an effective scale length of 78 inches; a vernier drive allows precise adjustment. The 200CD gives a

maximum sinewave output of at least 10 V across its rated load of 600Ω and at least 20 V open circuit. Its distortion rating is very low, <0.2% from 20 Hz to 200 kHz. A special feature of the 200CD is that its waveform purity does not depend on load.

Particularly designed for amplifier testing, transmission line measurements, loudspeaker testing, frequency comparison, and other high fidelity tests. The 201C meets every requirement for speed, simplicity and pure waveform. The frequency range, 20 Hz to 20 kHz, is covered in 3 bands; response is ± 1 dB full range. Output is 3 W or 42.5 V into 600Ω; an attenuator adjusts output 0 to -40 dB in 10 dB steps and provides either low impedance or constant 600Ω impedance.

Model 202C brings to low-frequency oscillators the accuracy and stability associated with audio measurements. It provides excellent waveforms as low as 1 Hz.

The transformer-coupled, balanced output of the Model 202C enables it to meet the signal source requirements for tests of a wide variety of systems. The instrument provides an output of at least 10 V across its rated load of 600Ω and at least 20 V open circuit.

Specifications

(Refer to data sheet for complete specifications)

HP Model	Frequency range	Calibration accuracy	Output to 600 ohms	Output impedance	Maximum distortion	Maximum hum and noise†	Input power	Weight—lb(kg)		Size—inches (mm)			Price
								net	ship	W	H	D	
200AB	20 Hz to 40 kHz (4 ranges)	$\pm 2\%$	1W (24.5V)	75 Ω (mid-freq)	1% 20 Hz to 20 kHz; 2% 20 kHz to 40 kHz	0.05%	75 VA	15 (6,7)	16 (7,2)	7½ x 11½ x 12 (191 x 292 x 305)			\$255
200CD	5 Hz to 600 kHz (5 ranges)	$\pm 2\%$	>160mW (>10 V)	600 Ω	0.2% 20 Hz to 200 kHz; 0.5% 5 Hz to 20 Hz and 200 kHz to 600 kHz	>60dB below (<0.1% of) rated output	90 VA	22 (9,9)	24 (10,8)	7 3/8 x 11½ x 14 3/8 (187 x 292 x 365)			\$295
200CD Opt. H20			7.5 V										\$350
201C	20 Hz to 20 kHz (3 ranges)	$\pm 1\%$	3W (42.5V)	600 Ω	0.5%	0.03%	75 VA	16 (7,2)	19 (8,6)	7½ x 11½ x 12½ (191 x 292 x 318)			\$315
202C	1 Hz to 100 kHz (5 ranges)	$\pm 2\%$	160mW (10 V)	600 Ω	0.5% above 5 Hz	0.1%	90 VA	25 (11,3)	28 (12,7)	7½ x 11½ x 14¼ (191 x 292 x 368)			\$350

* Output impedance: 600 Ω $\pm 10\%$, 20 dB, 30 dB and 40 dB setting, <600 Ω , 0 dB and 10 dB settings.

* Same as 200CD except: 0.06% 60 Hz to 50 kHz; 0.1% 20 Hz to 50 Hz and 50 kHz to 400 kHz; 0.5% 5 Hz to 20 Hz and 400 kHz to 600 kHz. Output: 7.5 V into 600 Ω load.

† Measured with respect to full rated output.

General

Frequency response: flat ± 1 dB over instrument range; reference level at 1 kHz.

Size and weight: maximum overall size and weights are given for cabinet models; 19" rack models also available.

Power: 115 or (230 V must be specified) $\pm 10\%$ at 48 to 440 Hz.

Accessories available: 11000A Cable Assembly, \$6; 11001A Cable Assembly, \$7; 11004A Line Matching Transformer \$65; 11005A Line Matching Transformer, \$85.