PRICE LIST

EFFECTIVE AUGUST 1, 1948



laboratory instruments

HEWLETT-PACKARD COMPANY 395 PAGE MILL ROAD + PALO ALTO, CALIFORNIA

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| FUNCTION | MODEL | FREQUENCY | CHARACTERISTICS | PRICE | Each |
|---------------------------------|--------|------------------------------|---|-------------------|----------------------|
| HARDWARE | 10 | | Binding Post | Quant. 1-99 | \$.20 .15 |
| | 14 | | Flexible coupler, ceramic insulated; permits mis- alignment of 1/32" and/or 5° | | 1.50 1.35 1.25 |
| LOW FREQUENCY STANDARDS | 100A | 100 kc, 10 kc, 1 kc, 100 cps | Accuracy 3 cps per mc per degree Centigrade | \$450.00 † | |
| | 100B | 100 kc, 10 kc, 1 kc, 100 cps | Temperature controlled; accuracy 0.001% | 500.00 † | |
| FREQUENCY DIVIDER { | 110 | 100 to 10 cps | Controlled by 100A or 100B. Multipliers also available up to 1 mc | 350.0 | 00† |
| | 200A | 35 to 35,000 cps | Output 1 watt into 500 ohms; 1% distortion | 120.0 | 00* |
| RESISTANCE-TUNED OSCILLATORS | 200B | 20 to 20,000 cps | Output 1 watt into 500 ohms; 1% distortion | 120.00* | |
| | 200C | 20 to 200,000 cps | Output 10 volts into 1,000 ohms; 1% distortion | 150.00* | |
| | 200D | 7 to 70,000 cps | Output 10 volts into 1,000 ohms; 1% distortion | 175.00* | |
| | 200H | 60 to 600,000 cps | Output 10 mw into a 100 ohm load; 3% total distortion | 350.00* | |
| | 200 I | 6 to 6,000 cps | Frequency setting closer than 1%; output 10 volts into 1,000 ohms; 1% distortion | 225.00* | |
| | 201B | 20 to 20,000 cps | Output 3 watts at 1% and 1 watt at ½% distortion into 600 ohms | 250. | 00* |
| | 202B | I_{2} to 1,000 cps | For low frequency studies. Output 10 volts into 1,000 ohms; 1% distortion | 350.0 | 00† |
| | 202D | 2 to 70,000 cps | Output 10 volts into 1,000 ohms; 1% distortion | 275. | 00* |
| | 204A | 2 to 20,000 cps | Portable, battery-operated; output 5.0 volts to 10,000 chm load; 1% distortion | 175. | 00 |
| | 205A | 20 to 20,000 cps | Output 5 watts, 1% distortion into impedances of 50, 200, 600, 5,000 ohms. Output VTVM and 110 db attenuator, 1 db steps | 390. | 00† |
| AUDIO SIGNAL GENERATORS | 205AG | 20 to 20,000 cps | Same as 205A, plus separate VTVM for complete gain measurements | 425.00 † | |
| | 205AH | 1 to 100 kc | Output 5 watts, 3% distortion into 50, 200, 500, 5,000 ohm impedances. Output VTVM and 110 db attenuator, 1 db steps | 550.00† | |
| | 206A | 20 to 20,000 cps | Output +15 dbm with less than 0.1% distortion into 50, 150, 600 ohm impedances. Output VTVM and 111 db attenuator in 0.1 db steps | 550. | 00† |
| SQUARE WAVE GENERATOR | { 210A | 20 to 10,000 cps | Output 50 volts peak to peak; 1,000 ohm internal impedance; 70 db attenuator, 5 db steps | 150. | 00* |
| WAVE ANALYZER | { 300A | .30 to 16,000 cps | Variable selectivity; measurement range 1 mv to 500 volts; 5% accuracy | 625. | 00† |

Prices complete with tubes F.O.B. Palo Alto, California. Data and prices subject to change without notice.

| FUNCTION | MODEL | FREQUENCY | CHARACTERISTICS | PRICE |
|---|-------------|--|---|-----------------|
| DISTORTION ANALYZERS | 320A | 400 cps and 5 kc | Measures total distortion as low as 0.1%. 70 db attenuator, 1 db steps for comparison | \$ 75.00* |
| | 320B | 50, 100, 400 cps and 1, 5 and 7.5 kc | Same as 320A | 150.00* |
| | 325B | 30, 50, 100, 400, 1,000 cps; 5, 7.5, 10 and 15 kc | Measures total distortion as low as 0.1%. Input amplifier and complete VTVM each usable separately | 350.00† |
| | 330B | Any frequency 20 to 20,000 cps | Similar to 325B but measures at any frequency and includes AM detector | 425.00 † |
| | 330C | Any frequency 20 to 20,000 cps | Similar to 330B, no AM detector. Meter has YU characteristics to meet FCC requirements for FM broadcasting | 425.00 † |
| FM BROADCAST { MONITOR | 335B | 88 to 108 mc | FCC approved. Monitors carrier frequency and modulation. High fidelity output for aural monitoring | 935.00† |
| ATTENUATORS | 350A | Max 100 kc | 110 db, 1 db steps; 5 watts, 500 ohm level. Bridged T type. Accuracy 1 db in 50 db at 100 kc | 50.00* |
| | 350B | Max 100 kc | Same as 350B but 600 ohm level | 50.00* |
| | 400A | 10 cps to 1 mc | Nine ranges 0.03 to 300 volts full scale. Accuracy ±3% to 100 kc, ±5% to 1 mc. Average reading. Calibrated in rms. | 185.00* |
| VACUUM TUBE VOLTMETERS AND ACCESSORIES | 400B | 2 cps to 100 kc | Same as 400A with response flat to 2 cps. 10 megohm input impedance | 195.00* |
| | 400C | 20 cps to 2 mc | Twelve ranges 0.001 to 300.0 volts full scale; accuracy ±3% to 100 kc, ±5% to 2 mc; 10 megohn input impedance; average reading; calibrated in rms volts; may be used as 54 db amplifier | 200.00 |
| | 404A | 2 to 50,000 cps | Portable, battery-operated; eleven ranges; 0.003 to 300 volts full scale; accuracy ±3% to 20 kc; 10 megohm input impedance | 185.00 |
| | 410A | 20 cps to 700 mc | AC: six ranges 1 to 300 volts. DC: seven ranges 1 to 1,000 volts. Resistance: seven ranges 0.2 ohm to 500 megohms | 245.00 |
| | 415A | 300 to 2,000 cps | Standing Wave Indicator for use with a bolometer or crystal rectifier; standard fre- quency 1000 cps, others on special order | 200.00 |
| | 455A | to 1,000 mc | Connects probe of 410A across 50 ohm transmis- sion line. Type N fittings | 35.00 |
| | 458A | to 1,000 mc | Connects probe of 410A to open end of 50 ohm transmission line. Type N fittings | 17.50 |
| | { 450A | 10 to 1,000,000 cps | 40 db and 20 db stabilized gain. Input imped- ance 1 megohm shunted by approximately 15 uuf. | 140.00* |
| ELECTRONIC FREQUENCY METER | { 500A | 5 cps to 50 kc | Ten ranges, $\pm 2\%$ accuracy. Input 0.5 to 200 volts | 210.00* |
| ELECTRONIC TACHOMETER | 505A | 300 to 3,000,000 rpm | Ten ranges, \pm 2% accuracy | 300.00* |
| | 505B | 5 to 50,000 rps | Same as 505A except calibrated in rps | 300.00* |
| SIGNAL GENERATORS | 610A | 500 to 1,350 mc | Calibrated output 0.1 microvolt to 0.1 volt. Internal pulse modulation. Direct calibration | 925.00 |
| | 616A | 1,800 to 4,000 mc | Direct reading. Pulse modulation, CW and FM. Calibrated output 0.1 microvolt to 0.2 volts | 2500.00 |
| | 650A | 10 cps to 10 mc | Direct reading. Six bands. Output 3 volts to 600 ohm load. VTVM and output attenuator | 475.00 † |
| POWER SUPPLY | (7104 | | Any dc voltage 180 to 360 for 0 to 75 ma load; approximately 1% regulation. Also 6.3 volts, | 85.00 |

*Available in rack mounting at \$5.00 additional. †Available in rack mounting; no extra cost. Other instruments available in cabinet mounting only. Standard color is H-P Grey; other colors at \$5.00 additional.

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SUGGESTIONS FOR ORDERING

Order by Model Number... Always order by catalog model number and name of instrument desired. For example, "Model 206A Audio Signal Generator." Whenever possible mention frequency range or other significant specifications to prevent misunderstanding. Also mention features such as special color, special frequency range, non-standard power line voltage, etc., and whether cabinet or rack mounting style is desired.

Most Hewlett-Packard instruments are available in either cabinet or rack mounting. Rack mounting styles are designated by adding an "R" after the model number. For example, "200BR." An asterisk in the price list indicates that rack mounting style is available at an additional cost of \$5.00. A dagger indicates that rack mounting style is available at no extra cost.

Orders should be sent direct to the factory and addressed to Hewlett-Packard Company, 395 Page Mill Road, Palo Alto, California. All orders are subject to final acceptance by the Hewlett-Packard Company.

Shipments . . . Unless specifically requested otherwise, shipments are made by express. This policy is born of experience. Delicate instruments require the careful handling received in express shipment, and over a long period of time this method has proved most satisfactory. On request, shipments will be made by air freight or by truck. We do not recommend shipment by parcel post or by freight, and shipments will not be made by this type of carrier without specific instructions from the customer and the understanding that safe arrival is his entire risk. **Terms** 30 days net. Unless credit has already been established, shipments will be made c.o.d. All prices are quoted f.o.b. Palo Alto.

Sales Representatives... Sales representatives are maintained in principal cities as a service to our customers. Customers are invited to contact the nearest representatives at any time. They will gladly supply technical information, help prepare your order and, if desired, forward order to the factory. Orders should be made out to the Hewlett-Packard Company and are subject to final acceptance by the Company in Palo Alto. Sales representatives and their addresses are shown in the price list. Export sales are made through Frazar and Hansen, Ltd., 301 Clay Street, San Francisco 11, California.

Repairs ... When returning instruments for repairs, recalibration, or any other reason, please contact the Hewlett-Packard Company for shipping instructions. Give model number, type number, and serial number and as much information as possible concerning reason for return.

Repairs are made by the Hewlett-Packard Company at actual cost of labor and materials. Customers are invited to make full use of this service to insure maximum benefit from their instruments.

Repair Parts... When ordering repair parts please describe carefully parts required. Give model number, type number, serial number of the instrument and date of original purchase. Identify parts on the wiring diagram if possible, giving date shown on the circuit wiring diagram.

These -hp- Representatives Are At Your Service

CHICAGO 6, ILLINOIS

Alfred Crossley & Associates 549 West Randolph Street State 7444

CLEVELAND 12, OHIO

M. P. Odell 1748 Northfield Avenue Potomac 6960

DALLAS 5, TEXAS

Earl W. Lipscomb 4433 Stanford Street Logan 6-5097

DENVER 10, COLORADO

Ronald G. Bowen 1896 So. Humboldt Street Spruce 9368

5M 8-48

HIGH POINT, NORTH CAROLINA

Bivins & Caldwell Room 807, Security Bank Building Phone 3672

LOS ANGELES 46, CALIFORNIA

Norman B. Neely Enterprises 7422 Melrose Avenue Whitney 1147

BOSTON, MASS.

Burlingame Associates 270 Commonwealth Ave. KENmore 6-8100

NEW YORK 7, NEW YORK

Burlingame Associates 11 Park Place Digby 9-1240

TORONTO 1, CANADA

Atlas Radio Corporation, Ltd. 560 King Street West Waverley 4761

WASHINGTON 9, D. C.

Burlingame Associates 2017 S Street N.W. DEcatur 8111

FORT MYERS, FLORIDA

Arthur Lynch and Associates P. O. Box 466 Fort Myers 1269M

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