



# NEW! BATTERY-OPERATED!

## **-hp- 204A AUDIO OSCILLATOR**

**Range:** 2 cps to 20 kc  
**Distortion:** 1 %  
**Output:** 5 v into 10,000 ohms  
**Response:** Flat within  $\pm 1$  db



PRICE:  
**\$175**  
 FOB Palo Alto

## **-hp- 404A VACUUM TUBE VOLTMETER**

**Range:** 2 cps to 50 kc  
**Voltage:** .001 to 300 v, 11 ranges  
**Accuracy:**  $\pm 3\%$  to 20 kc  
**Input:** 10 meg., 20 uufd shunt



PRICE:  
**\$185**  
 FOB Palo Alto

Portable, light-weight, completely hum-free, weather-proofed, designed for general use where power sources are not available—that's the new *-hp- 204A* Audio Oscillator and *404A* Vacuum Tube Voltmeter. Now—*anywhere, anytime*—you can accurately make geophysical, remote broadcast line, carrier current, strain gauge, telemetering circuit, telephone and telegraph, motion picture sound, marine and aircraft circuit measurements. And in the laboratory, these instruments make possible completely hum-free measurements.

### **-hp- 204A Audio Oscillator**

Like other *-hp-* oscillators, the new *-hp- 204A* is easy to use, requires no zero setting. Tuning is direct or by a 6:1 vernier control. Frequency range of 2 cps to 20 kc is covered in 4 decade ranges. Five flashlight and three 45 v "B" batteries are easily accessible, mounted in rubber-lined anti-corrosion case, balanced for over 60 hours life. In average use they need be replaced only once every three months.

Entire instrument is mounted in a welded dural case with splash-proof cover. All components are instantly accessible for servicing. Neon on-off pilot light shows when oscillator is operating. Size  $10\frac{1}{2}'' \times 10\frac{1}{2}'' \times 11''$ . Weight 24 lbs.

### **-hp- 404A Vacuum Tube Voltmeter**

The new *-hp- 404A* battery voltmeter is designed for a-c measurements from 2 cps to 50 kc, at voltages from .001 to 300 v. The *404A* is modeled after the *-hp- 400A* voltmeter, but has 10 times the sensitivity. Input impedance is high (10 megohms), and accuracy is within  $\pm 3\%$ , 2 cps to 20 kc,  $\pm 7\%$  to 50 kc. The instrument is also useful

as a hum-free amplifier, with standardized gain up to 60 db. Operation is virtually independent of battery, temperature or humidity changes.

A linear meter reads rms sine wave values, with continuous db readings from -62 to +52 db. 11 voltage ranges selected with a single switch; no other adjustments necessary during operation. Neon on-off warning light, welded dural case, splash-proof cover. Size  $7\frac{1}{2}'' \times 10\frac{1}{2}'' \times 9''$ . Weight 14 lbs. approx.

*Early Delivery! Get Full Details!*

## **HEWLETT-PACKARD CO.**

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