

Kit IM-21

Wired IMW-21



Heathkit Laboratory AC VTVM . . . For The Studio Technician Or Audiophile

• Especially useful for low-level AC & audio measurements
• 10 voltage ranges—from 0.01 to 300 volts RMS full scale
• Extended frequency response, ± 1 dB from 10 Hz to 500 kHz • 10 megohm input impedance for high accuracy—minimal effect on circuitry under test • Calibrated scale for audio measurements • VU-type ballistic meter damping

A COMPACT INSTRUMENT FOR AUDIO DESIGN & DEVELOPMENT, LABORATORY ANALYSIS, OR GENERAL SERVICING . . . features the same practical-size as the Heathkit IM-11 VTVM, plus precision components for extended accuracy in measuring low-level AC voltages. A precision voltage divider provides 10 ranges, 10 millivolts to 300 volts RMS full scale. The meter features VU-type ballistic damping for fast response to changes in signal level . . . ideal for monitoring and trouble-shooting audio signals in the shop or studio. 5-way binding posts are spaced at $\frac{3}{4}$ inches, convenient for use with standard dual banana plugs generally used on patch cords in the control room and audio lab.

OPTIMUM CIRCUIT DESIGN FOR ACCURATE, DEPENDABLE MEASUREMENTS . . . utilizes the high input impedance characteristics of the cathode follower circuit. Cathode follower input applies only 10 megohms to circuits under test. Total meter amplifier includes two stages with 19 dB of negative feedback for high stability and linearity. The amplifier filament voltage is supplied from a transformer winding balanced to ground to keep AC noise to a minimum. The DC power supply features a modern silicon rectifier.

PRACTICAL STYLING . . . not only compact in size and light in weight, but also easy to use. One knob controls "off" and the voltage range. You'll enjoy assembling this instrument too. The styling inside is just as practical as the outside . . . clean, open parts layout . . . wiring that's easy to get at, easy to assemble.

Kit IM-21, 5 lbs.

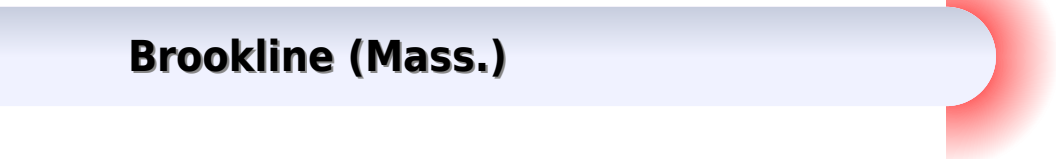
Assembled IMW-21, 5 lbs.

Export model available for 115/230 VAC, 50-60 Hz; write for prices.

IM-21 SPECIFICATIONS—Frequency response: ± 1 dB 10 Hz to 500 kHz, ± 2 dB 10 Hz to 1 MHz, all ranges. **Ranges:** Ten ranges from 0.01 to 300 volts RMS full scale. **Decibels:** Total range —52 to +52 dB, meter scale —12 to +2 dB (0 dB = 1 mW in 600 ohms), ten switch selected ranges from —40 dB to +50 dB in 10 dB steps. **Input impedance:** 10 megohms shunted by 12 pF on ranges 10 to 300 volts, 10 megohms shunted by 22 pF on ranges .01 to 3 volts. **Tube complements:** (1) 6AW6, (1) 6EJ7/EF184. **Accuracy:** Within 5% of full scale. **Power requirements:** 105-125 volts, AC, 50-60 Hz, 10 watts. **Dimensions:** 7 $\frac{3}{8}$ " H x 4 $\frac{1}{16}$ " W x 4 $\frac{1}{8}$ " D.

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Brookline (Mass.)



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sequence here lfsr is a linear array of n n elements with initial value

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