

Section I
Figure 1-1 and Table 1-1

Model 3400A



Figure 1-1. Model 3400A RMS Voltmeter

Table 1-1. Model 3400A Specifications

<p>RANGE: 12 full scale ranges from 1 mv to 300 v in a 1, 3, 10 sequence. -72 to +52 dbm. (Usable indications to 100 μv.)</p> <p>METER SCALES: Voltage, 0. 1 to 1 and 0.3 to 3. Decibel, -12 to +2 dbm (0 dbm = 1 mw, 600 ohms). Scales are individually calibrated to the meter movement.</p> <p>FREQUENCY RANGE: 10 cps to 10 Mc.</p> <p>ACCURACY: Within $\pm 1\%$ of full scale, 50 cps to 1 Mc. Within $\pm 2\%$ of full scale from 1 to 2 Mc. Within $\pm 3\%$ of full scale, 2 to 3 Mc. Within $\pm 5\%$ of full scale, from 10 to 50 cps and from 3 to 10 Mc. (Usable readings to 5 cps and 20 Mc.)</p> <p>RESPONSE: Responds to rms value (heating value) of the input signal for all waveforms.</p> <p>CREST FACTOR: (ratio of peak amplitude to rms amplitude): 10 to 1 at full scale (except where limited by maximum input), inversely proportional to pointer deflection, e.g. 20 to 1 at half-scale, 100 to 1 at tenth-scale.</p>	<p>MAXIMUM INPUT: 1000 v peak.</p> <p>INPUT IMPEDANCE: From 0.001 v to 0. 3 v Range: 10 megohms shunted by 40 pf. From 1.0 v to 300 v Range: 10 megohms shunted by 15 pf.</p> <p>RESPONSE TIME: Typically <2 sec. to within 1% of final value for a step change.</p> <p>OVERLOAD PROTECTION: 30 db or 1000 v peak, whichever is less, on each range.</p> <p>OUTPUT: Negative 1 vdc at full scale deflection, proportional to pointer deflection (from 10-100% of full scale). 1 ma maximum. Nominal source impedance is 1000 ohms.</p> <p>POWER: 115 or 230 v $\pm 10\%$, 50 to 1000 cps, approximately 7 watts.</p> <p>DIMENSIONS: 5-1/8 in. wide, 6-1/2 in. high, 11 in. deep (1/3 module). (130 x 165 x 279 mm).</p> <p>WEIGHT: Net, 7-1/4 lbs. (3,3 kg) Shipping, 11 lbs. (5 kg).</p>
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