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**MODEL PM2002
 POWER METER
 10kHz-40GHz**

The Model PM2002 is a dual channel high performance power meter that features high speed measurement capability and wide dynamic range.

SPECIFICATIONS

<i>Frequency Range</i>	<i>10kHz-40GHz, power head dependent</i>
<i>Power Measurement Range.....</i>	<i>-70dBm to +44dBm, power head dependent</i>
<i>Number of Channels</i>	<i>Two</i>
<i>Measurement Speed</i>	<i>1 channel : 200 readings/sec. 2 channels : 100 readings/sec.</i>
<i>Power Heads</i>	<i>Select from a large number of diode and thermocouple Power Heads. The linearity and frequency calibration factors for the heads are provided in an EEPROM contained in a Head Data Adapter shipped with the Power Head.</i>
<i>Dynamic Range</i>	<i>Up to 90dB with diode heads, 50dB with thermocouple heads. See Power Head Specifications.</i>
<i>Inputs</i>	<i>Rear panel HEAD connectors and rear panel IEEE-488 connector standard.</i>
<i>Outputs.....</i>	<i>Rear panel PWR/REF connector, 0dBm, 50MHz. Rear panel RECORDER BNC connector, 0 to 10V into 1mW. Output impedance is 9.09kW. May be operated into 1kW or 1V fs.</i>
<i>Emulation.....</i>	<i>HP437, HP438 and Boonton 4220A</i>
<i>Displays</i>	<i>Menu-driven 20 character x 4 line LCD display. Simultaneous display of dual channels with bar graph proportional to data display.</i>
<i>Display Units.....</i>	<i>Absolute, watts and dBm. Relative, dBr</i>
<i>Display Resolution</i>	<i>5 digits, nW, mW, mW and W; 4 digits dBm</i>
<i>Measurement Accuracy</i>	<i>Total accuracy is the sum of the following uncertainties: (errors are ± worst case).</i>
<i>Instrumentation Accuracy.....</i>	<i>0.23% of full scale. 0.46% of 1/10 full scale</i>

<i>Power Reference Uncertainty</i>	<i>Output Frequency: 50MHz ± 1.5%. Output Level: 0dBm Level Accuracy: ±0.7% (25 °C) for 90 days. ±0.9% RSS, 1.2% worse case (0° to -55°C) for 1 year. Source Impedance: 50 ± 1 ohm. SWR: <1.05 Harmonic Output <-50dBc.</i>
<i>Other Uncertainties</i>	<i>For Head, Noise, High Frequency Calibration Uncertainty See Power Head Specifications</i>
<i>Calibration Factors</i>	<i>+3dB to -3dB in 0.01dB steps. These calibration factors are stored in non-volatile memory. When a frequency other than that stored is used, the meter linearity interpolates between the calibration factor above and below the frequency entered to obtain a calibration factor</i>
<i>Ranging</i>	<i>Automatic or Manual</i>
<i>Filtering</i>	<i>Filter times in 0.05 second intervals to 20 seconds.</i>
<i>Zeroing</i>	<i>Automatic function to calculate, store and apply zero corrections to each range</i>
<i>Display Offset</i>	<i>-99.99 to 99.99 in 0.01dB steps (dBr)</i>
<i>Power Consumption</i>	<i>100, 120, 220 or 240 VAC (±10%), 50-60Hz or 400Hz, 24 VA maximum</i>
<i>Operating Temperature</i>	<i>0° to +55 °C</i>
<i>Weight</i>	<i>7 lbs (3.2 kg)</i>
<i>Dimensions</i>	<i>8.25 in (21.0 cm) wide, 3.5 in (8.9 cm) high, 13.25 in (33.7 cm) deep</i>
<i>Standard IEEE-488 Bus</i>	<i>Complies with IEEE-488 and implements SH1, AH1, T6, L4, SR1, RLI, DC1 and DT1</i>
<i>Accessories Required</i>	<i>One or more of the available power heads and a 5 ft. power head cable (supplied with each head ordered) are both required.</i>

Accessories available, See PH2000 Specification Sheet.