



## RFWattmeter™

The RFWattmeter will operate from 100 kHz to 10 MHz up to 2,000 Watts full scale.

The RFWattmeter comes in a small plastic enclosure with RF input and output connectors, a DC power connector, USB connector, and three analog output connectors for direct access to measurement signals.

### Universal Technical Specifications

- Analog signal output:
  - Average power, voltage and current
- Screen output data:
  - Average power (P), voltage (V), current (I), impedance magnitude (Z) and phase angle (A)
- Sample rate:
  - 8-64 Samples/second (up to 800 Samples/second with custom software)
- Loss through meter:
  - <0.01 dB at 50 Ω
- Calibration point:
  - 20 Watts into 50 Ω at 2.5 MHz on 200 W Range; 200 Watts into 50 Ω at 2.5 MHz on 2,000 W Range
- RF connectors:
  - BNC(f) Input and Output
- Load impedance:
  - 50 Ω (nom.), 10 – 250 Ω OK
- Power supply:
  - Wall Wart AC adapter, 100-240 VAC 50-60 Hz input, 6 VDC output (supplied with meter)
- Frequency:
  - 100 kHz to 10 MHz (other frequencies available upon request)

\*Battery powered optional

### Optional Advanced & Detailed Calibration

Calibration is performed using an absorptive power meter as a reference standard. The provided test report will include plots of the RFWattmeter's frequency response and power linearity.

#### Reference meter:

- Agilent/HP EPM-441A RF Power Meter
- Agilent/HP 8482H RF power sensor, calibrated 0.1 MHz – 4.2 GHz
- Bird model 8322 RF attenuator 200 Watts continuous, 30 dB, 50 Ω

### RFWattmeter Selection Matrix

Model	USB Interface	Power Scale (Watts)	Resolution (Watts)	Calibration Point (Watts)
21B		0 – 200	0.025	20
22B		0 – 2,000	0.25	200
23B	✓	0 – 200	0.025	20
24B	✓	0 – 2,000	0.25	200



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