

Broadband, Multirange Directional RF Wattmeter Model 81050

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Features

- *Non-Removable Broadband Element*
- *Shock Mounted "Taut Band" Meter*
- *4-1/2" Mirrored Scale*
- *Quick Match Connectors*
- *Internal 7/8" Line Section*
- *Gold Plated Element*
- *Two Year Limited Warranty*



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Description

With the Model 81050 Directional Wattmeter you can now measure RF power in 50-Ohm coaxial cable and transmission lines without the need for additional plug-in elements.

Model 81050 comes complete with the same 4-1/2" taut band meter movement, Quick Match RF Connectors, and precision line section that are used in our Model [81000-A](#) and [83000-A](#) Wattmeters.

These features plus a special non-removable Broadband Element allow full-scale power measurement on any one of 5 selectable ranges of 5, 15, 50, 150, and 500 watts across a frequency range of 25 to 1000 MHz.

Versatile and reliable, the Model 81050 is also easy to use. Simply connect the Wattmeter between the transmitter and the antenna or dummy load, select the appropriate power range on the 5 position switch, and read the power directly on the mirrored backed meter when the frequency is between 100 and 1000 MHz. Below 100 MHz, multiply the meter reading by the correction factor found on the chart on the back of the Wattmeter.

The use of a rugged shock mounted meter with a mirror-backed scale along with superior taut band technology, provides reliable and accurate readings, and also satisfies both the US Navy and Canadian standards for bounce and vibration. This is your assurance of complete accuracy.

Your confidence in the quality and dependability of the Model 81050 Wattmeter is assured with the Coaxial Dynamics Two Year Limited Warranty.

Specifications

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| Power Ranges | 5, 15, 50, 150 and 500 watts full scale (150 watts maximum from 800 to 1000 MHz) |
| Frequency Range | 25 MHz to 1000 MHz |
| VSWR | 1.08 max. from 25 to 512 MHz (with UHF female connectors) 1.12 max. from 512 to 1000 MHz (with UHF female connectors) |
| Insertion Loss | 0.10 dB max. from 25 to 512 MHz (with UHF female connectors) 0.15 dB max. from 512 to 1000 MHz (with UHF female connectors) |
| Accuracy | 25 to 100 MHz, $\pm 7\%$ of full scale using corrections chart 100 to 512 MHz, $\pm 6\%$ of full scale, no correction required 512 to 1000 MHz, $\pm 7\%$ of full scale, no correction required |
| Element | Non-Removable Broadband (25 to 1000 MHz, 500 watts max.) rotatable for forward and reflected power measurements |
| Impedance | 50-Ohms |
| RF Connectors | Type UHF Female standard (see note below) |
| Dimensions (H x W x D) | 7.3 in. (18.5 cm) x 5 in. (12.7 cm) x 4 in. (10.2 cm) |
| Weight | 3.8 lbs. (1.72 kg) |
| Case Finish | Textured Blue Polyurethane Enamel |
| <i>Note: Other Quick Match Connectors are available.</i> | |

[general documents/SUPPLIERS/COAXIAL/specs for online catalogue/Directional Wattmeters/footer.htm]