

**Broad Band,  
Directional,  
Multi-Range**

**RF  
Directional  
Wattmeters**

**MODEL  
81050**

## **RF WATTMETER**

**500 Watts F.S.  
25 MHz - 1000 MHz**

### **Model 81050**

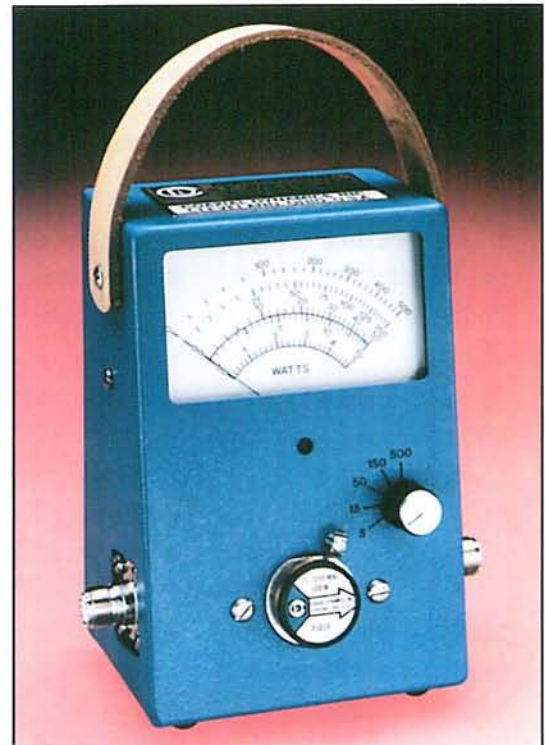
With the New Model 81050 Directional Wattmeter you can now measure RF Power in 50 ohm coaxial cable and transmission lines without the need for additional plug in elements.

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 81000-A/83000-A Wattmeter Series.

These features plus a special non-removable Broad Band 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 RF Power Source 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 1,000 MHz. Below 100 MHz, multiply the meter reading by the correction factor found on the chart on the back of the Wattmeter.

For more information on our line of peak and average reading Wattmeters contact the factory.



### **CHECK THESE DISTINCT ADVANTAGES**

#### **FOR ACCURACY**

- SHOCK MOUNTED "TAUT BAND" METER
- 4 1/2" MIRRORED SCALE
- NON-REMOVABLE BROAD BAND ELEMENT

#### **FOR VERSATILITY**

- QUICK MATCH CONNECTORS
- INTERNAL LINE SECTION

#### **FOR DURABILITY**

- 2 YEAR LIMITED WARRANTY



**Coaxial Dynamics**

A CDI INDUSTRIES, INC. COMPANY

6800 Lake Abram Drive, Middleburg Hts., Ohio 44130, USA

(440) 243-1100 • 1-800-COAXIAL • FAX: (440) 243-1101

E-Mail [coaxial@apk.net](mailto:coaxial@apk.net) • Web Site <http://www.coaxial.com>

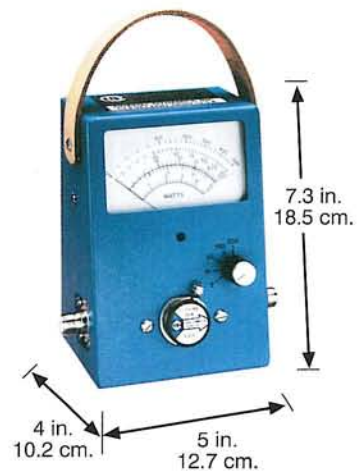
NOW ACCEPTING



## SPECIFICATIONS:

### Model 81050, Broadband Directional RF Wattmeter

<b>Power Ranges</b>	5, 15, 50, 150, 500 Watts, Full Scale. (150 Watts maximum from 800-1000 MHz)
<b>Frequency Range</b>	25 to 1000 MHz
<b>Accuracy</b>	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
<b>Insertion Loss (with UHF female connectors)</b>	0.10 dB max., 25 to 512 MHz 0.15 dB max., 512 to 1000 MHz
<b>VSWR (with UHF female connectors)</b>	1.08 max., 25 to 512 MHz 1.12 max., 512 to 1000 MHz
<b>Element</b>	Broadband (25 to 1000 MHz 500 Watt max.), rotatable for forward and reflected power measurements, non-removable
<b>Nominal Dimensions (excluding connectors)</b>	7.3" high, 5" wide, 4" deep
<b>Weight</b>	3.8 lbs.
<b>Case Finish</b>	Nitro-Blue



## 88000 Series RF Quick Match 50 ohm Connectors

88000	N Female	88010	7/8" Swivel Flanged
88001	N Male	88011	TNC Female
88002	BNC Female	88012	TNC Male
88003	BNC Male	88013	HN Female
88004	UHF Female	88014	HN Male
88005	UHF Male	88020	SMA Female
88006	LC Female	88021	SMA Male
88007	LC Male	88026	Miniature UHF Female
88008	C Female	88027	SC Female
88009	C Male	88028	SC Male