

Broad Band, Directional THRULINE[®]RF WATTMETER

Model 4304A

Full Scale Use on Five RF Power Ranges 5 to 500 Watts

New Thruline® RF Wattmeter, Model 4304A, provides users with exceptional versatility, ruggedness, and full coverage on five power ranges, from 5 to 500 Watts full scale. This portable unit measures both forward and reflected RF power levels in 50 ohm two-way communications systems.

Here are the advantages of Model 4304A that mean more value to you:

- Performance stable to 1000 MHz
- Power ranges of 5, 15, 50, 150, 500 Watts
- Supplied with one broadband, locked-inplace element, calibrated to the instrument
- Rugged die cast aluminum housing with shock mounted meter
- No "off limits" on scale

- Line section same as in Bird Model 43
- UHF female connectors standard
- Rubber mounts on
- bottom and back surfaces
- Fits in standard Model 43 carrying case
- More precise power measurements in the 800-900 MHz range

 Covers all power ranges required for measurement of all twoway communications systems

• Eliminates expense of multiple frequency-range and power-range elements

- Withstands rough service
- No need to switch scales when reading lower powers
- Provides highest measurement accuracy with minimum insertion loss and greatest mechanical stability
- Use the instrument while it is standing up or lying on its back
- Saves you money

BIRD THRULINE® **BF** Directional Wattmeters

Simple to Operate! Select the desired RF power range with the switch in the lower right corner of the Model 4304A and read the power directly on the meter.

Accurate! New broad-band element is calibrated to the instrument. Power readings are accurate within ±6% over the frequency range of 100 to 512 MHz, and ±7% from 512 to 1000 MHz. Convenient correction factor chart on back of the Model 4304A enables you to keep low-frequency readings (in 25 to 100 MHz range) below ±7%.

Full-Scale Use! Entire length of the measurement scale is usable. There are no "off-limits" at the scale bottom.

Proven Bird Connectors! Low loss UHF (female) connectors are standard on the Model 4304A. Other

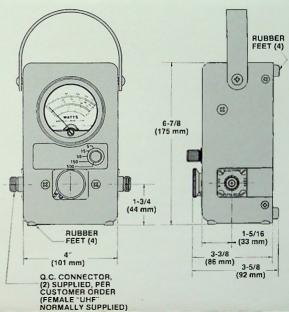
Bird QC Series connectors available include: N, TNC SMA, MINI-UHF, BNC, etc.

Low VSWR (Voltage Standing Wave Ratio)! High quality line section and connectors keep VSWR less than 1.05 at frequencies to 512 MHz, less than 1.10 to 850 MHz, and less than 1.15 to 1000 MHz. Antenna or load VSWR is easily determined by the permanent chart on back of the Model 4304A housing.

Low Insertion Loss! Line section in the Model 4304A is the same as that in our time-proven Model 43. This means that using N(f) connectors, insertion loss is less than 0.10 dB from 25 to 512 MHz and 0.13 from 512 to 1000 MHz; and using the UHF (f) connectors, it is 0.10 dB from 25 to 512 HMz and 0.15 dB from 512 to 1000 MHz.

Specifications

Power Ranges	5, 15, 50, 150, 500 Watts, with no scale limitations	/
Frequency Range	25 to 1000 MHz	
Accuracy	25 to 100 MHz, ±7% of full scale using corrections chart 100 to 512 MHz, ±6% of full scale, no correction required 512 to 1000 MHz, ±7% of full scale,	
	no correction required	
Insertion Loss (with UHF female	0.10 dB max., in 25 to 512 MHz range	
connectors)	0.15 dB max., in 512 to 1000 MHz range	
VSWR	1.08 max., in 25 to 512 MHz range	(3)
(with UHF female connectors)	1.12 max., in 512 to 1000 MHz range	egel -
Element	Broadband (25 to 1000 MHz 500 Watt max.), rotatable for forward and reflected power measurements	10-
Nominal Dimen- ions (including connectors	6¼" high, 5¼" wide, 35%" deep	(2) CU
Weight	3 lb.	(FE NO
Case Finish	Light navy gray baked enamel (MIL E-15090)	
Element	500 Watt max., broadband	





216-248-1200 TLX: 706898 Bird Elec UD FAX: 216-248-5426 WESTERN REGION OFFICE: Bird Electronic Corp. 621 Ojai Ave., Suite F P.O. Box 28, Ojai, CA 93023 805-646-7255