



MODEL 43 — Portable Wattmeter

Power Range 100 mW - 10 kW using Bird® Plug-in Elements.*
Frequency Range 450 kHz - 2.7 GHz (depending on element)
Insertion VSWR with N Connectors 1.05 max. to 1000 MHz
Accuracy ±5% of full scale
Connectors QC Type (Female N normally supplied)
Finish Light Gray powder coat
Nominal Size 6 7/8" H x 5 1/8" W x 3 5/8" D,
 (includes connectors) (175 mm x 130 mm x 92 mm)
Weight 3 lbs. (1.4 kg)
Elements Tables 1, 2, 3, 3A, 4, 6 (pages 37-40)



MODEL 43P — Portable Wattmeter

PEAK POWER RETROFIT KIT 4300-400 — Portable Wattmeter

Power Range 100 mW - 10 kW using Bird® Plug-in Elements.*
Frequency Range 450 kHz - 2.7 GHz (depending on element)
Accuracy CW Mode: ±5% full scale, Peak mode: ±8% full scale
Modulation Normal voice audio; or (Peak Mode) Rectangular Pulses
 Duty cycle: 2% (min), Repetition rate: 100 pps (min), Pulse width: 200 µs (min)
Battery Life 48 hours typical
Weight Adds 1 lb. to Model 43



VARIABLE RF TAP 4431 — Portable Wattmeter

Power and Frequency Range 5 kW max. 2 - 30 MHz, 1 kW max. 30 - 1000 MHz** using Bird® Plug-in Elements* with N Connectors 1.07 max.** to 1000 MHz
Insertion VSWR ±5% of full scale
Accuracy 0.1 dB max. (2-512 MHz), 0.2 dB max. (512-1000 MHz)*
Insertion Loss Variable -15 to -70 dB from BNC (Female) port
RF Sample Output QC Type (Female N normally supplied)
Connectors QC Type (Female N normally supplied)
Finish Gray powder coat
Nominal Size 6 7/8" H x 5 1/8" W x 3 5/8" D,
 (includes connectors) (175 mm x 130 mm x 92 mm)
Weight 3 1/2 lbs. (1.6 kg)
Elements Tables 1, 2, 3, 3A, 4, 6 (pages 37-38) (within power/frequency range limits stated above)
Accessories Case (page 43)



WATTMETER 4314B — Portable Wattmeter

Power Range 100 mW - 10 kW using Bird® Plug-in Elements.*
Frequency Range 450 kHz - 2.7 GHz (depending on element)
Insertion VSWR with N Connectors 1.05 max. to 1000 MHz
Accuracy ±5% of full scale CW, ±8% PEP
Pulse Parameters (min.) Pulse width 0.4 µs (100-2300 MHz), 1.5 µs (26-99 MHz) and 15 µs (2-25 MHz); repetition rate 30 pps and duty factor 1 x 10⁻¹ min.
Battery Two 9-Volt alkaline transistor batteries
AC Power 120 VAC, 60 Hz or 220 VAC, 60 Hz (using Bird® adapter)
Connectors QC Type (Female N normally supplied)
Finish Light Gray powder coat
Nominal Size 6 7/8" H x 5 1/8" W x 3 5/8" D,
 (includes connectors) (175 mm x 130 mm x 92 mm)
Weight 3 lbs. (1.4 kg)
Elements Tables 1, 2, 3, 3A, 4, 5, 6 (pages 37-40)
Accessories Case (page 43), spare batteries (page 42), extra QC connectors (page 41).



HIGH-POWER WATTMETER 4305A — Portable Wattmeter

Power Range 50 W - 25 kW using Bird® Plug-in Elements.*
Frequency Range 450 kHz - 2.3 GHz (depending on element)
Insertion VSWR with N Connectors 1.05 max.
Accuracy ±5% of full scale
Connectors QC Type (Female N normally supplied)
Finish Gray powder coat
Nominal Size 6 5/16" H x 5 1/8" W x 4 1/4" D,
 (includes connectors) (161 mm x 131 mm x 108 mm)
Weight 3 1/4 lbs. (1.5 kg)
Elements 4305A element table below and 1 5/8AA table (page 39)
Accessories Case (page 43)



4305A Elements	Power	Frequency (MHz)	2-30	50-125	100-250	400-1000	1100-1800
50 W	.45-2.5	—	—	—	—	—	50K7
2500 W	—	—	—	2500B7	2500C7	2500E7	—
5000 W	—	—	—	5000B7	—	—	—
10 kW	—	10KH7	—	—	—	—	—
25 kW	25KP7	—	—	—	—	—	—

MODEL 4304A FIXED 25-1000 MHz 5-500 WATT ELEMENT — Portable Wattmeter

Power Ranges 5, 15, 50, 150, 500 W, with no scale limitations except power limited to 150 W from 800-1000 MHz
Frequency Range 25 MHz - 1.0 GHz
Insertion VSWR 25-521 MHz, 1.05 max. (with UHF female conn.), 512-1000 MHz, 1.07 max.
Insertion Loss 25-512 MHz, 0.10 dB max. with UHF female conn., 512-1000 MHz range, 0.13 dB max.
Accuracy 25-100 MHz, ±7% of full scale, using correction charts. 100-512 MHz, ±6 of full scale, no correction needed. 512-1000 MHz, ±7% of full scale, no correction needed.
Connectors QC Type (Female N normally supplied)
Finish Light Gray powder coat
Nominal Size 6 7/8" H x 5 1/8" W x 3 5/8" D,
 (includes connectors) (175 mm x 130 mm x 92 mm)
Weight 3 lbs. (1.36 kg)
Accessories Case (page 43)



*Quoted accuracy only when used with other Bird® Products
 **Applies only when coupling is less than 30 dB