



MODEL 4308 CELLULAR SPECIALIST WATTMETER — Portable Wattmeter

Power Ranges	1.5, 5, 15, 50 W, with no scale limitations
Frequency Range	440 MHz - 960 MHz
Insertion VSWR	1.05 with TNC connectors (QC Type)
Accuracy	±5% of full scale
Connectors	QC Type (Female TNC 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 lbs. (1.36 kg)
Accessories	Case (page 43)



MULTIPOWER, ±5% READING ACCURACY 4410 SERIES— Portable Wattmeters

	4410A and 4412
Power Range	2 mW to 10 W, 20 mW to 100 W, 200 mW to 1 kW or 2 W to 10 kW full scale in one single Plug-in Element. Any Bird® Series 4410-Element may be used.
Frequency Range	200 kHz - 2.3 GHz CW or FM
Insertion VSWR	with N Connectors 1.25 max. to 2300 MHz
Accuracy	±5% of reading for any reading above 20% of the Power Range selected for FM or CW signals without AM. This accuracy is maintained for a full 37 dB dynamic range with each 4410 Element (except No. 4410-1 200 kHz-535 kHz which is accurate to ±10% of reading, and 4410-15 1.0-1.8 GHz and 4410-16 1.8-2.3 GHz which are accurate to ±8% of reading.)
Ambient Temperature Range	Elements 4410-1 through -8 and -10 through -16 are temperature compensated for rated accuracy from 0°C to 50°C (32°F to 122°F) and 4410-20 through -27 from 20°C to 30°C (68°F to 86°F)
Over-Range Protection	To 120% of nominal full scale (i.e. 12 W, 120 W, 1200 W, or 12,000 W). No damage or degradation to the unit will result, regardless of the Range Selector Switch position.
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	4410: 3 lbs. (1.4 kg), 4412: 3 1/3 lbs. (1.5 kg)
Elements	Tables 9, 10, 11, 12 (below)
Accessories	Case (page 43), spare battery (page 42)



4410 Elements

Table 9 - Full-Scale Power and Frequency Ranges 0-10, 30, 100, 300 Milliwatts, 1, 3, 10 Watts

MHz	30-50	50-88	88-108	—	150-250	225-400	400-800	800-900	900-1000
Model	4410-20	4410-21	4410-27	—	4410-23	4410-24	4410-25	4410-26	4410-28

Table 10 - Full-Scale Power and Frequency Ranges 0-100, 300 Milliwatts, 1, 3, 10, 30, 100 Watts

MHz	25-80	50-125	100-250	200-500	400-1000	1000-1800	1800-2300
Model	4410-10	4410-11	4410-12	4410-13	4410-14	4410-15*	4410-16*

Table 11 - Full-Scale Power and Frequency Ranges 0-1, 3, 10, 30, 100, 300, 1000 Watts

MHz	2-30	25-80	50-200	144-520	200-1000
Model	4410-3	4410-5	4410-6	4410-7	4410-8

Table 12 - Full-Scale Power and Frequency Ranges 0-10, 30, 100, 300, 1000, 3000, 10,000 Watts

MHz	0.2-0.535	0.45-2.5	2-30
Model	4410-1	4410-2	4410-4

*Accuracy is ±8% of reading