

Model 43 THRULINE® RF Directional Wattmeters

The Industry Standard

The Model 43 THRULINE® Directional Wattmeter accurately measures forward or reflected power in coaxial transmission lines under any load condition. Each Model 43 consists of a line section, "QC" (Quick Change) connectors and an indication meter housed in a rugged, corrosion-resistant aluminum case.

The line section is a high-precision 50 OHMS coaxial air line that inserts between the transmitter and the antenna or load. A socket is provided in each line section for a plug-in element with the desired power rating and frequency range. Line section ends are equipped with "QC" -type connectors.

The model 43 is supplied with two female "n" -type "QC" connectors. These connectors can be interchanged in the field without affecting instrument calibration.

The Instrument's indicating meter is a shock-mounted 30-microampere meter with scales of 25, 50, and 100; permitting full-scale direct-power reading from 100 milliwatts to 10,000 watts.

Plug-in elements determine the power rating and the frequency range, and these values are marked on each element. The elements rotate to read both forward and reflected power. There is no need for calibration charts or instrument adjustments. Elements can be purchased at any time and replaced in the field. For added convenience, Model 43 connectors and elements are interchangeable with many other Bird wattmeters.

Remote installation can easily be achieved by removing the Model 43's RF line section and inserting it at any desired point in the line. For best visibility, the meter itself can be relocated using the 32" meter cable supplied in the instrument housing. Additional meter cable lengths can be ordered separately.

P/N 43



Standard Elements

POWER RANGE	2-30	25-60	50-125	100-250	200-500	400-1000
5W	--	5A	5B	5C	5D	5E
10W	--	10A	10B	10C	10D	10E
25W	--	25A	25B	25C	25D	25E
50W	50H	50A	50B	50C	50D	50E
100W	100H	100A	100B	100C	100D	100E
250W	250H	250A	250B	250C	250D	250E
500W	500H	500A	500B	500C	500D	500E
1000W	1000H	1000A	1000B	1000C	1000D	1000E
2500W	2500H	--	--	--	--	--
5000W	5000H	--	--	--	--	--

High-Frequency Elements. Entire Table $\pm 8\%$ Fs

POWER

RANGE	950-1260	1100-1800	1700-2200	2200-2300	2300-2400	2400-2500	2500-2600	2600-2700
1W	4J	1K	1L	1M	431-17	431-20	431-23	431-120
2.5W	2.5J	2.5K	2.5L	2.5M	431-110	431-107	431-108	431-117
5W	5J	5K	5L	5M	432-15	432-28	432-2	432-12
10W	10J	10K	10L	10M	432-125	432-141	432-102	432-104
25W	25J	25K	25L	25M	433-19	433-20	433-35	433-36
50W	50J	50K	50L	50M	433-37	433-38	433-163	433-164
100W	100J	--	--	--	--	--	--	--
250W	250J	--	--	--	--	--	--	--

Milliwatt Elements

100mW	MODEL	250mW	MODEL	500mW	MODEL
40-50 MHz	430-266	72-76 MHz	430-22	72-76 MHz	430-33
72-76 MHz	430-2	88-108 MHz	430-217	88-108 MHz	430-247
108-136 MHz	430-57	105-120 MHz	430-20	105-120 MHz	430-26
135-175 MHz	430-86	116-126 MHz	430-48	120-136 MHz	430-248
320-340 MHz	430-205	130-150 MHz	430-13	136-150 MHz	430-249
400-420 MHz	430-7	190-210 MHz	430-65	240-290 MHz	430-27
420-450 MHz	430-208	450-470 MHz	430-61	290-340 MHz	430-253
450-470 MHz	430-8	800-1000 MHz	430-264	340-360 MHz	430-157
600-800 MHz	430-169			350-400 MHz	430-254
800-1000 MHz	430-263			400-450 MHz	430-255
				450-500 MHz	430-256
				600-800 MHz	430-25
				800-1000 MHz	430-265

