Bird® Model 43 Wattmeter

Quick Start Guide

Element Choice

Select an element that best matches the maximum RF power to be measured.

- For measuring 800W use a 1000W element (accuracy +/- 50W).
- For measuring 20W use a 25W element (accuracy +/- 1.25W).
- For measuring 1100W use the 2500W element (accuracy +/- 125W).
- The lower 20% of the meter scale is not accurate and is not specified.
- *You cannot accurately measure 50W with a 2500W element!*

Element Accuracy Specification

- Coaxial Dynamics Elements and Bird Model 43 Elements are 100% fully compatible!
- The element accuracy is +/-5% of the full scale value of that element.
- Accuracy for a 1000W element would be +/-50W (anywhere on the scale).
- Accuracy for a 100W element would be +/-5W (anywhere on the scale).
  * Therefore, *you cannot accurately measure 10W with a 100W element*, etc.
- The lower 20% of the scale s not specified. Try to stay in the upper part of the scale.
- PEP (SSB) Measurement accuracy is +/-8% of full scale for that element.

Element Installation

- Remove the blank aluminum plug and insert an element into the meter socket.
- The holes on the side of the Bird Model 43 are for element storage only.
- Connect your RF Source to one side of the meter (either side is ok).
- Connect your RF Load or Antenna to the opposite side of the meter.
- Rotate the element so that the arrow points toward the RF Load or Antenna.
- The meter is now set to measure Forward Power.
- Reverse the direction of the arrow to measure Reflected Power.

How to Read the Meter

- When using a 5W element meter will read 5W full scale (use scale labeled 0-50).
- When using a 10W element meter will read 10W full scale (use scale labeled 0-100).
- When using a 500W element meter will read 500W full scale (use scale labeled 0-50).
- When using a 250W element meter will read 250W full scale (use scale labeled 0-25).
- Etc...

Scan the QR code or visit the link below to access the product manual.

aes-corp.com/product/8600-bwm-bird-wattmeter

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