

# *High-Power Rigid Line Directional RF Wattmeters For 3-1/8" Line Size*

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## **Features**

- Shock Mounted "Taut Band" Meter
- 4-1/2" Mirrored Scale
- Uses Standard Gold Plated [Plug-In Elements](#)
- Two Year Limited Warranty



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## **Description**

The 81300-A series of High-Power Directional RF Wattmeters are designed to measure RF power in 50-Ohm 3-1/8" coaxial transmission lines.

To use the Wattmeter, simply connect it between the transmitter and antenna or dummy load and plug in the appropriate measuring element. The RF power is directly displayed on the 4-1/2" triple scale meter.

Several different models are available with either 5/10/25 scales or 15/30/60 scales. The external Line Section can be used up to 200-feet from the meter with the permanently attached DC cables (10-foot normally supplied). The meter unit is protected by a rugged, shock-proof housing. For added convenience, two sockets for storage of additional measuring elements are located on the back of the unit.

The use of a rugged shock mounted meter with a mirror-backed scale along with superior taut band technology, provides reliable and accurate readings, and also satisfies both the US Navy and Canadian standards for bounce and vibration. This is your assurance of complete accuracy.

Your confidence in the quality and dependability of the 81300-A series of Wattmeters is assured with the Coaxial Dynamics Two Year Limited Warranty.

## **Available Models With 5/10/25 Scales**

**Model 81300-A**

Wattmeter with 3-1/8" Single Socket EIA Flanged Line Section.

**Model 81301-A**

Wattmeter with 3-1/8" Single Socket Unflanged Flush Line Section.

**Model 81302-A**

Wattmeter with FWD/RFL switch and 3-1/8" Dual Socket EIA Flanged Line Section.

**Model 81303-A**

Wattmeter with FWD/RFL switch and 3-1/8" Dual Socket Unflanged Flush Line Section.

**Model 81311-A**

Wattmeter with 3-1/8" Single Socket Unflanged Recessed Line Section.

**Model 81313-A**

Wattmeter with FWD/RFL switch and 3-1/8" Dual Socket Unflanged Recessed Line Section.

■ *All Wattmeters listed above use [5/10/25 scale elements](#).*

**Available Models With 15/30/60 Scales****Model 81306-A**

Wattmeter with 3-1/8" Single Socket EIA Flanged Line Section.

**Model 81307-A**

Wattmeter with 3-1/8" Single Socket Unflanged Flush Line Section.

**Model 81308-A**

Wattmeter with FWD/RFL switch and 3-1/8" Dual Socket EIA Flanged Line Section.

**Model 81309-A**

Wattmeter with FWD/RFL switch and 3-1/8" Dual Socket Unflanged Flush Line Section.

**Model 81315-A**

Wattmeter with 3-1/8" Single Socket Unflanged Recessed Line Section.

**Model 81317-A**

Wattmeter with FWD/RFL switch and 3-1/8" Dual Socket Unflanged Recessed Line Section.

■ *All Wattmeters listed above use [15/30/60 scale elements](#).*

**Specifications**

|  |   |
|--|---|
| Power Range                            | 1000 W to 60 kW                                     |
| Frequency Range                        | 2 MHz to 1000 MHz                                   |
| Accuracy                               | ±5% of full scale                                   |
| Impedance                              | 50-Ohms   |
| Case Finish                            | Textured Blue Polyurethane Enamel                   |
| Line Section Finish                    | Bright Silver Plate                                 |
| Dimensions (H x W x D)<br>(Meter only) | 7.3 in x 5 in x 4 in<br>18.5 cm x 12.7 cm x 10.2 cm |
| Weight (Meter only)                    | 2.5 lbs. (1.13 kg)                                  |

[general documents/SUPPLIERS/COAXIAL/specs for online catalogue/Directional Wattmeters/