

Model 44A

RF WATTMETER MODEL 44A

The Telewave.io Model 44A RF Wattmeter is a compact, versatile instrument used for direct measurement of forward and reflected RF power in a coaxial transmission line under any load conditions. Wide band capability and dynamic range allows operation without elements, inserts, or bandswitching.

The 20 microamp taut-band meter movement is shock mounted in a rugged, diecast housing, making this instrument ideal for mobile radio installation in aircraft or vehicles, as well as base stations. This wideband instrument covers 20 to 1000 MHz with a power range of 1 to 500 watts. The meter movement can be turned off for protection when not in use. A leather carrying strap is provided for easy portability. The use of a taut-band meter movement allows operation in cold temperatures.

The Model 44A utilizes a set of precision directional detectors which sample forward and reverse CW power flow in a specially engineered section of transmission line. The sampled current is scaled to drive the 20 μ A taut band meter.

Forward and reflected power can be directly measured by rotating the FWD-REV switch. VSWR (Voltage Standing Wave Ratio) is easily determined by comparing these measurements and using the convenient chart on the back of the instrument. Five power scales are provided. The 500 watt scale will test most high powered transmitters, while the 5 watt scale makes it simple to tune low powered portables. The excellent stability of this unit and the ability to switch it from one power range to another to check the calibration eliminates the need for a secondary standard to verify calibration.



FEATURES

- REQUIRES NO ELEMENTS, SLUGS, OR SENSORS
- NO BAND SWITCHING
- POWER: 1-500 Watts
- MEASURES FORWARD AND REFLECTED POWER
- SHOCK-MOUNTED METER
- QUICK-CHANGE CONNECTORS
- LIGHT WEIGHT: 3 LBS

RF SPECIFICATIONS

Frequency Range	20–1000 MHz	VSWR	1.1:1
Impedance	50 ohms nominal		

PHYSICAL SPECIFICATIONS

Connectors	(forward + reverse); N Female standard; UHF, DIN, TNC, BNC optional	Dimensions	6.625 x 4 x 3.25 in (168.3 x 101.6 x 82.6 mm)
Weight	3 lb (1.36 kg)		
Additional specifications			
RF sampling port (44AP)	-40 dB +/-2 dB below total power	Sample port	BNC-female

