



44D

Digital/Analog Broadband RF Wattmeter

The Telewave Model 44D Broadband RF Wattmeter is a compact, versatile test instrument for the direct measurement of forward and reflected RF power in a coaxial transmission line under any load conditions.

This meter is capable of accurately measuring legacy analog modulated signals as well as signals incorporating the newest digital modulation schemes.

This meter does not require field calibration, frequency elements (slugs), or the use of correction tables at any temperature or frequency within specification.

The features of the 44D include:

- Long life rechargeable batteries, re-charge via USB
- -50 dB bi-directional sample/injection port, SMA Female connector only
- Tough Metal case, shock mounted and recessed display
- Large buttons that can be operated when wearing gloves

Included accessories:

- Universal (wall wart) power supply 90 to 250 VAC in, USB 5 VDC out
- Universal AC Plug Adapter Kit (IEC Type A Plug to Type C, G, or I Plug)
- USB type A to type B charging cable



Rear View



Optional Case

Optional accessories: TC44 Carrying Case, DIN 4.3/10 adapter, DIN 7/16 adapter, Mini-UHF adapter, SMA adapter.

The default quick connect thru line connectors are N Female. Field swappable to BNC-F, TNC-F, or UHF-F

SPECIFICATIONS			
Frequency (Model Dependent)	88 MHz to 1 GHz	Battery Life (awake)	8 Hours (after full charge)
Calibration Cycle	Factory - Every 1 Year	International Protection Mark	IP54 (internal test)
Impedance (all connections)	50 ohms	MIL-810-G	Temp, Humidity, Shock
Thru Line Coupler Directivity Min	> 20 dB	Operating & Storage Humidity	35 to 85 % non-condensing
Power Range (Forward & Reverse)	1 Watt to 500 Watts 30 dBm to 57 dBm	Temperature Range (USB Conn) (USB Not Connected) (Long Term Storage)	-4° to 113°F (-20° to +45°C) -4° to 143°F (-20° to +62°C) 68° to 86°F (+20° to +30°C)
VSWR (Return Loss) 50 Ohm Line	< 1.21:1 (> 20.5 dB)	Meter weight	3 lb. (1.4 kg)
Accuracy to 1 GHz (proper cabling)	±6% ±0.2W	Meter dimensions (HWD) inches (cm) not including handle	6.75 x 5.50 x 4.00 (17.15 x 14.00 x 10.15)
Thru Line Insert Loss to 500 MHz Thru Line Insertion Loss to 1 GHz	< 0.02 dB (< 0.5 %) < 0.04 dB (< 0.9 %)	Shipping weight meter only Shipping weight w/ opt case	4 lb. (1.8 kg) 5 lb. (2.3 kg)
Sample Port insertion Loss (Bi-Directional to TX & ANT ports)	50 dB (±2 dB)	Shipping dimensions (HWD) inches (cm)	10.00 x 8.00 x 6.00 (25.40 x 20.30 x 15.25)
Digital/Analog Modulation Support (see User Manual for details)	CW, AM, FM, P25 (1&2), DMR/d-PMR, IDAS/NXDN, D-Star, Fusion,		