



88 MHz - 1 GHz

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.

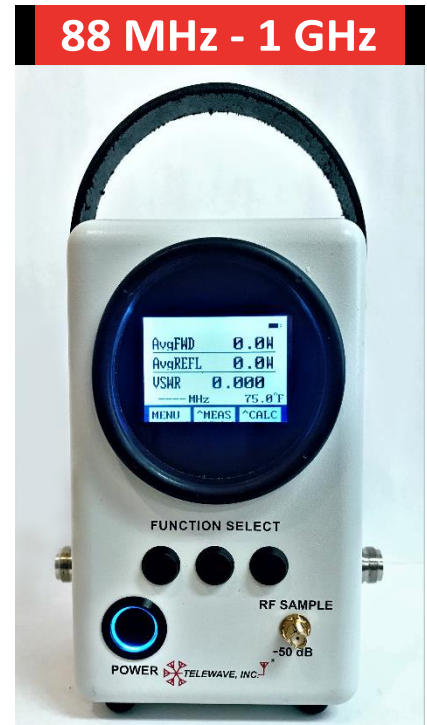
44D is capable of accurately measuring legacy analog modulated signals as well as signals incorporating the newest digital modulation schemes. 44D does not require field calibration, frequency elements (slugs), or the use of correction tables at any temperature or frequency within specification.

Features:

- Long life rechargeable batteries, re-charge via USB Adapter
- -50 dB bi-directional sample/injection port, SMA Female connector
- 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



TC44 Carrying Case

The default quick connect thru line connectors are N Female (Call for BNC-F, TNC-F or UHF-F).

Optional accessories: TC44 Carrying Case.

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
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)	5 Watts to 500 Watts 37 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)
Forward Power Accuracy (CW)	±6%	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		