

44D-LX

Digital/Analog Broadband RF Wattmeter

The Telewave.io Model 44D-LX Broadband RF Wattmeter is a compact, versatile test instrument for the direct measurement of forward and reflected RF power.

Like Telewave.io's venerable 44A Wattmeter, the 44D-LX wattmeter is housed in the same ruggedized housing and form factor. The Digital wattmeter supports legacy Land Mobile (LMR) Modulation (CW, FM, and Non-TDMA FSK), with the addition of newer TDMA & Quadrature modulation schemes (P25-P2, DMR, TETRA) (details in the user manual.)

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-LX include:

- **Extended Battery Life & Rapid Charging** – Provides up to 8 hours of operation with an internal battery. 8.4V DC charger and cable included, 4x faster charging. An optional external battery available for up to 16 hours of operation.
- **USB-C Data Port** – Data transfer only
- **Digital Frequency Counter** – Built-in for precise frequency measurement.

Accessories:

- Universal (wall wart) power supply 90 to 250 VAC in, 8.4V DC Charger is included
- The destination "ship to" country requiring the appropriate type C, G, or I Male to US Female Adapter will be included to be compliant with their power socket conventions of their country.

Visit the IEC website for a complete list of socket types, and power voltage/frequencies:
<http://www.iec.ch/worldplugs/>.

Optional accessories: TC44-RX Carry Case

RF Connectors: Thru-Line (TX & ANT) N-Female, Sample port SMA-Female



Rear View



TC44-RX Carry Case

SPECIFICATIONS			
Frequency (Model Dependent)	118 MHz – 960 MHz	Calibration Cycle	Factory – once a year
Impedance (all connections)	50 ohms	Battery Life	8 Hours (Internal only) 16 Hours (With external battery)
Insertion Match	< 1.21:1 (> 20.5 dB)	Operating & Storage Humidity	35 to 85 % non-condensing
Forward Power Range	5 Watt to 500 Watts 37 dBm to 57 dBm	Temperature Range (USB Conn) (USB Not Connected) (Long Term Storage)	+32° to 113°F (0° to +45°C) -4° to 122°F (-20° to +50°C) 68° to 86°F (+20° to +30°C)
Reverse Power Range	Max 100 Watts 50 dBm	Meter weight	3.5 lb. (1.6 kg)
RMS Power Measurement Accuracy – FM/FSK	±0.4 dB	Meter dimensions (HWD) inches (cm) not including handle	6.75" x 5.5" x 4.0" (17.14 x 13.97 x 10.16)
Thru Line Insert Loss	< 0.1 dB	Shipping weight meter only Shipping weight w/ opt case	4 lb. (1.8 kg) 8 lb. (3.6 kg)
Sample Port insertion Loss (Bi-Directional to TX & ANT ports)	50 dB (nominal)	Shipping dimensions (HWD) inches (cm)	14.0" x 12.0" x 7.0" (35.36 x 30.48 x 17.78)
Analog/Digital Modulation Support	(See User Manual for details)		