

44DL Digital/Analog Broadband RF Wattmeter

The Telewave.io Model 44DL 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 44DL wattmeter is housed in the same ruggedized housing and form factor. The digital version offers the same capability to measure CW, FM and FSK signals AND can display the power readings in Watts or dBm with today's popular digital modulations formats like DMR, P25, TETRA and others (see User Manual for details).

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 44DL include:

- Long life rechargeable batteries, re-charge via USB
- -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

Accessories:

- Universal (wall wart) power supply 90 to 250 VAC in, USB 5 VDC out is included
- USB 2.0 type A to type B cable
- 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-R Carry Case

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



Rear View

TC44-R Carry Case

SPECIFICATIONS			
Frequency (Model Dependent)	136 MHz – 869 MHz	Calibration Cycle	Factory – once a year
Impedance (all connections)	50 ohms	Battery Life	6 Hours (after full charge)
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 lb. (1.4 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) 5 lb. (2.3 kg)
Sample Port insertion Loss (Bi-Directional to TX & ANT ports)	50 dB (nominal)	Shipping dimensions (HWD) inches (cm)	10.0" x 8.0" x 6.0" (25.40 x 20.32 x 15.24)
Analog/Digital Modulation Support (See User Manual for details)	CW/FM DMR, P25-P1 (C4FM), dPMR, NXDN (Kenwood NEXEDGE / ICOM IDAS), D-Star TETRA, P25-P2, CQPSK (LSM)		