



**30 MHz - 1 GHz**

# 44D Digital/Analog Broadband RF Wattmeter

**Preliminary**

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

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

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

The features of the 44D include:

- Remote monitoring (personal computer with software) via USB or WiFi
- 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:

- AC/DC power adapter (wall wart type) 90 to 250 VAC in, USB 5 VDC out
- USB type A to type B charging cable

Optional accessories:

- TC44 Carrying Case

The default thru line connectors are N Female. The meter can be fitted with:

- DIN 4.3/10 Female
- BNC Female
- TNC Female



Rear View



Optional Case

SPECIFICATIONS			
Frequency (Model Dependent)	30 MHz to 1 GHz	Battery Life (awake)	8 Hours (after full charge)
Calibration Cycle	Factory every 2 years	Wireless Local Area Network	2.4 GHz IEEE 802.11b/g/n
Impedance (all connections)	50 ohms	Intrusion Protection	IP54 (equivalent)
Thru Line Coupler Directivity Min	> 18 dB	Operating & Storage Humidity	0 to 95 % non-condensing
Power Range	1 Watt to 500 Watts 30 dBm to 57 dBm	Temperature Range	-20 to +60 C Operating -40 to +70 C Storage
VSWR (Return Loss) 50 Ohm Line	< 1.21:1 ( > 20.5 dB)	Meter weight	3 lb. (1.4 kg)
Accuracy to 1 GHz (properly cabled)	±3%	Meter dimensions (LWH) inches (cm) not including handle	6.75 x 5.50 x 4.00 (17.15 x 14.00 x 10.15)
Thru Line Insertion Loss to 500 MHz	< 0.02 dB (< 0.5 %)	Shipping weight meter only	4 lb. (1.8 kg)
Thru Line Insertion Loss to 1 GHz	< 0.04 dB (< 0.9 %)	Shipping weight w/ opt case	5 lb. (2.3 kg)
Sample Port insertion Loss (Bi-Directional to TX & ANT ports)	50 dB (±2 dB)	Shipping dimensions (LWH) inches (cm)	10.00 x 8.00 x 6.00 (25.40 x 20.30 x 15.25)
Cal Digital/Analog Modulation	P25(1&2), Tetra, DMR, NXDN, D-Star, LTE, QAM, OFDM, AIS, WBFM, NBFM, AM, SSB, etc.		