

### **44DL**

## Digital/Analog Broadband RF Wattmeter

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

Like Telewave'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, LSM 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

#### 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

Optional accessories: TC44 Leather Carry Case

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

# 88 MHz - 1 GHz







TC44 Carry Case

| SPECIFICATIONS  |   |  |  |
|---|---|--|--|
| Frequency (Model Dependent)                                     | 88 MHz to 1 GHz   | 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<br>Humidity  | 35 to 85 % non-condensing  |
| Forward Power Range   | 5 Watt to 500 Watts<br>37 dBm to 57 dBm                     | Temperature Range (USB<br>Conn) (USB Not Connected)<br>(Long Term Storage) | +32° to 113°F (0° to +45°C)<br>-4° to 122°F (-20° to +50°C)<br>68° to 86°F (+20° to +30°C) |
| Reverse Power Range   | 1 Watt to 100 Watts<br>30 dBm to 50 dBm                     | Meter<br>weight  | 3 lb. (1.4 kg)   |
| RMS Power Measurement<br>Accuracy – FM/FMSK                     | Up to 250 Watts: ±0.4 dB >250 Watts to 500 Watts: ± 0.75 dB | Meter dimensions (HWD) inches (cm) not including handle                    | 6.75" x 5.5" x 4.0"<br>(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)<br>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"<br>(25.40 x 20.32 x 15.24)   |
| Analog/Digital Modulation Support (See User Manual for details) | FM/FSK<br>DMR/P25-P2 UL<br>LSM/P25-P2 DL                    |  |  |