

# UW 5

## Ultrasound Wattmeter

### Technical Data



The UW 5 Ultrasound Wattmeter measures the power output of many different types and levels of therapeutic ultrasound devices.

Battery-operated and lightweight, the microprocessor-based UW 5 is compact and simple to use, providing readings quickly without the need for stabilization. An auto-zero button makes it easy to zero the unit for power output measurements, and a calibrated check weight is included for quick field-calibration verification.

The UW 5 runs up to 10 hours continuously on just one 9 V battery and with virtually no moving parts is a reliable, cost-effective tool.

### Key features

- Versatile usage with total pulsed or continuous-average-energy ultrasound sound devices
- Calibration verification and auto-zero features to ensure reliable readings
- Transducer clamp and centering rings for stable readings
- Leveling mechanism for maximum accuracy
- Easy documentation with RS-232 data transfer
- Battery-operated or line-powered for convenient operation
- Easy-to-read 3-digit display
- Compact and easy to use



UW 5 center rings, gram weight, and adapter

## Technical specifications

### Measurement range

0.1 W to 30 W

### Input power level

0 to 30 W

### Test media

Deionized/distilled and degassed water

### Resolution

0.1 W

### Reading accuracy

Electrical accuracy: + 0.15 W ( $\pm$  0.01 g) full range  
System repeatability: + 3 % of reading,  $\pm$  0.2 W

### Input measurements

Average pulsed or continuous power

### Input frequency range

0.5 MHz to 10 MHz

### Zeroing

Auto-zero button

### Readout units

Watts or grams (output energy mode)  
Grams (cal mode)

### Maximum Transducer Size

7.6 cm (3 in) diameter

### Operating Temperature

10 °C to 30 °C (50 °F to 86 °F)

### Data Output

Bidirectional RS-232 compatible with any serial communications software such as Windows<sup>®</sup> Hyperterminal<sup>™</sup>

### Power

One 9 V battery or battery eliminator for use in USA/Canada, UK, AUS/NZ, Europe, and Japan

### Battery Life

10 hours (max)  
Note: For longer battery life, unit will automatically shut down after approximately four minutes of inactivity when on battery power. (An included battery eliminator is a standard accessory for longer-term test sessions.)

### Dimensions (LxWxH)

36.8 cm x 22.9 cm x 19.1 cm  
(14.5 in x 9 in x 7.5 in, 10.75 in with clamp post)

### Case

Durable Kydex<sup>®</sup>

## Ordering information

### Model

**UW 5-US 120 V** Ultrasound Wattmeter

**UW 5-UK 250 V** Ultrasound Wattmeter

**UW 5-SHUKO 250 V** Ultrasound Wattmeter

**UW 5-JPN 100 V** Ultrasound Wattmeter

**UW 5-AUS 250 V** Ultrasound Wattmeter

### Standard accessories

**2635738:** User/service manual

**2248886:** Soft-sided vinyl carrying case

**2213577:** Centering ring set

**2213550:** Clamp and mount

**2663422:** Calibration weight

**2669704:** Weight adapter

**2235311:** Battery eliminator for UW 5-US 120 V

**2235330:** Battery eliminator for UW 5-UK 250 V

**2391811:** Battery eliminator for UW 5-SHUKO 250 V

**2235348:** Battery eliminator for UW 5-JPN 100 V

**2235353:** Battery eliminator for UW 5-AUS 250 V

### Optional accessories

**DB9M-DB9FFT** RS-232 Cable

## About Fluke Biomedical

Fluke Biomedical is the world's leading manufacturer of quality biomedical test and simulation products. In addition, Fluke Biomedical provides the latest medical imaging and oncology quality-assurance solutions for regulatory compliance.

Today, biomedical personnel must meet the increasing regulatory pressures, higher quality standards, and rapid technological growth, while performing their work faster and more efficiently than ever. Fluke Biomedical provides a diverse range of software and hardware tools to meet today's challenges.

## Fluke Biomedical Regulatory Commitment

As a medical device manufacturer, we recognize and follow certain quality standards and certifications when developing our products. We are ISO 9001 certified and our products are:

- FDA Compliant
- CE Certified, where required
- NIST Traceable and Calibrated
- UL, CSA, ETL Certified, where required
- NRC Compliant, where required

## Fluke Biomedical.

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*More choices.*

*One company.*

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