



### **USP-100SP Features:**

- Digital reading
- Continuous or Pulsed Power
- Integrated carrying case
- 0.2 to 30.0 Watt Range
- Accuracy =  $\pm 3\%$  + one count reading
- 0.5 to 10 MHz Frequency Response
- 3" Max Transducer Diameter
- Built-in transducer holder
- Degassed water is the testing medium
- Line Power or Battery Operation
- Compact size of 8.5" H x 12" L x 8.75" W
- Unit weight is 11 lbs

### **USP-30 Features:**

- Analog reading
- 0.15 to 30.0 Watt Range
- Continuous or Pulsed Power
- 1 to 10 MHz Frequency Response
- Integrated carrying case
- Built-in transducer holder

# **Ultrasound Power Meters**

*BC Biomedical USP-100SP & USP-30*

The USP-100SP is designed to measure the ultrasound power output of diagnostic or therapeutic transducers up to 30 watts and according to AIUM, JCAHO, FDA and NIST guide-lines. The USP-100SP has a display resolution of  $\pm 200$  milliwatts. The compact and light weight USP-100SP meets all the requirements of a portable test instrument with reliability and proven performance.

The USP-30 is designed to measure the ultrasonic power output of diagnostic or therapeutic transducers up to 30 Watts using the radiation force balance method. The USP-30 consists of a precision mechanical balance, which measures from 0.01 to 10.00 grams, a conical target suspended on a triangular hanger, a water tank, a transducer support rod w/clamp and a carrying case. The transducer to be tested is center mounted over the conical target with the transducer's radiating area immersed facedown in the water medium. This system provides a sturdy instrument with good measurement accuracy at an economical cost.



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# Specifications

## USP-100SP

Measure Range.....	0.2 to 30 Watts
Resolution.....	± 50 mW
Accuracy.....	± 3 + one count reading
Transducer Frequency.....	0.5 to 10 MHz
Maximum Transducer Diameter.....	3"
Test Medium.....	Degassed, distilled, room temp water
Stabilization Time.....	2.5 seconds
Display.....	3 digit LCD, 1.3" high
Line Power.....	120 or 240 VAC plug-in adapter
Battery.....	4 AA, 20 hrs. continuous battery life
Dimensions.....	8.5" H x 12" L x 8.75" W
Weight.....	11 lbs.

## USP-30

Power Range.....	150 mW to 30 Watts
Resolution.....	±150 mW
Minimum Detectable Power Level.....	±150 mW
Minimum Accuracy.....	±5%
Expected Accuracy.....	±4%
Display.....	Vernier Dial
Display Sensitivity.....	±0.01g ot ± 150 mW
Zeroing Method.....	Manually adjusted
Test Tank Lining.....	0.5" neoprene rubber
Test Medium.....	Degassed, distilled, room temp water
Test Tank Liquid Capacity.....	1350 mL
Test Tank Dimensions	
Outside.....	5.75" dia. x 5.55"
Inside.....	4.5" dia x 5.25 D.
Cone Target Dimensions.....	3.5" dia. x 2" H
Dimensions (w/case).....	19" H x 17" L x 7" W
Power.....	Not required
Weight (w/case).....	18 lbs.



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