

Ultrasound Power Meters

BC Biomedical USP-30 & USP-100A

Features - USP-30

- ◆ 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

Features - USP-100A

- ◆ 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-100A

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 and economical cost.

The USP-100A Ultrasound Power Meter was developed to test therapeutic transducers according to AIUM, JCAHO, FDA and NIST guidelines. The compact and light weight USP-100A meets all the requirements of a portable test instrument with the reliability and proven performance of the Series.



BC Group International, Inc.
3081 Elm Point Industrial Dr.
St. Charles, MO 63301 USA
Phone: 314-638-3800 Toll Free: 1-888-223-6763
Fax: 314-638-3200
Email: sales@bcgroupintl.com
Website: www.bcgroupintl.com

BC Biomedical USP-30 & USP-100A

USP-30 SPECIFICATIONS

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 or ± 150mW
Zeroing Method	Manually Adjusted
Test Tank Lining	0.5" neoprene rubber
Test Medium	Degassed, distilled water at normal room temp
Test Tank Liquid Capacity	1,350 mL
Test Tank Dimensions	Outside 5.75" Dia. x 5.55"
Inside	4.5" Dia. x 5.25" D
Cone Target	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

USP-100A SPECIFICATIONS

Measure Range	0.2 to 30 Watts
Resolution	± 200 mW
Accuracy	± 3% +One Count Reading
Transducer Frequency	0.5 to 10 MHz
Maximum Transducer Diameter	3"
Test Medium	Degassed, distilled water at normal room temp
Stabilization Time	2.5 sec
Display	3-Digit LCD, 1.3" High
Line Power	120 or 240 VAC Plug-in AC 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



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