Features - USP-50SP

RESOLUTION: 50mW (150 mW in grams mode)

♦ MEASUREMENT RANGE: 0 TO 30 WATTS

♦ FREQUENCY RANGE: 0.5 TO 10MHZ

♦ MEASURES PULSED OR CONTINUOUS POWER

♦ SELECTABLE READOUT IN WATTS OR GRAMS

SOLUTION SHAPE S

♦ DIGITAL LIQUID CRYSTAL DISPLAY

AUTOMATIC ZEROING & STABILIZATION

♦ FIVE POINT CERTIFICATION (NIST TRACEABLE)



BC Group International, Inc. 3081 Elm Point Industrial Dr. St. Charles, MO 63301 USA

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Ultrasound Wattmeter

BC Biomedical USP Series





USP-50SP

Ultrasound watt meters have been used world-wide since 1977 and are a widely accepted standard for documenting the power output of medical transducers. The Model USP-50SP Ultrasound Power Meter was developed to test therapeutic and diagnostic transducers. The compact and light weight Model USP-50SP meets all the requirements of a portable test instrument with the reliability and proven performance of the ULT-Series. The Model USP-50SP uses a 5" diameter, 3 1/2 " high test tank.

The most reliable and repeatable means of measuring ultrasound power is by the radiation force method. The transducer to be tested is centered above a 45° air-backed cone target in de-gassed water. The coupling is made to a precision balance capable of resolving ± 0.15 watts. When acoustic energy is applied to the cone, the resultant force is directly proportional to the total radiated power. The test tank is lined with sonic absorbent rubber to prevent acoustic reflection. The balance is programmed to convert milligram magnitude forces direct to a readout in watts with good resolution. Measurement accuracy of the power meter can be verified by placing a calibrated weight on the cone's support arm. (The supplied 1 gram calibration weight equals 14.7 watts.)

BC Biomedical USP-50SP

USP-50SP SPECIFICATIONS

Measurement Range

Resolution Accuracy

Transducer Frequency

Maximum Transducer Diameter

Ultrasound Test Media

Integration Time

Display

Line Power

Battery Operation

Dimensions Weight 0 to 30 Watts, 0.05 watts minimum

detectable power

± 50 mW, ± .01 gram (150 mW)

± 3% @10 Watts, 25°C

.5 to 10 MHz

4 1/2" Inches

Degassed Water

2.5 seconds

7 segment 6 Digit 0.6" (15mm)

high LCD

120 VAC to 12 VAC 500 mA adapter

with 6 Ft. cord

4-AA: battery life over 40 hrs

Battery Level Indicator 6"H x 16 3/4"L x 12.0"W 9.75 lbs (Polyethylene)





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