



ACCUSONIC Plus (1 & 3 Mhz Ultrasound)

The Metron Accusonic Plus therapeutic ultrasound now offers 1 and 3 MHz from the one detachable applicator.

Microprocessor technology has been used to make the Accusonic Plus compact and easy to use. This technology has allowed a number of useful features to be presented in the Accusonic Plus.

For instance : -

- Up to 10 treatment programs can be stored in the Accusonic Plus, for quick and easy applications
- An LED bar graph is used to display the amount of ultrasound transmission occurring, this will assist the practitioner to monitor their own, or their staff's technique and correctly deliver the prescribed amount of ultrasound.
- The internal service software runs the calibration procedures, minimising the technician's involvement.
- Communicates with each transducer to correctly monitor and control frequency and contact sensing

 **metron**
advanced health technology

Ph: 800-500-4844

Metron Medical, LLC. 330 E Orangethorpe Ave, Unit K-L Placentia, Ca. USA 92870

ACCUSONIC PLUS Specifications

ULTRASOUND OUTPUT:

| | |
|--|---|
| Frequency | 1.1 MHz +/- 10% |
| Output power in | 2.4 Watts/cm ² +/- 10% maximum continuous mode (Equivalent to 12 watts absolute for the 5 cm head) |
| Frequency | 1.5 Watts/cm ² +/- 10% maximum (Equivalent to 7.5 watts absolute for the 5 cm head) |
| Output power in | 3.3 MHz +/- 10% |
| (Equivalent to 3 watts absolute for the 1 cm head) | 3.0 Watts/cm ² +/- 10% maximum continuous mode |

Effective Radiating Area

Nominally 0.8 square cms +/- 20% (1 cm head)
Nominally 5.0 square cms +/- 20% (5 cm head)

Power/intensity display

accurate to +/- 20% of reading for output in excess of 0.2 Watt/cm².

Beam Non-Uniformity Ratio

Nominally 5:1 +/- 20%

Ultrasound Modulation

Modulation modes

Pulsed modulation:

continuous or pulsed
Pulse frequency: 100 Hz +/- 2%
Pulse period: 10 milliseconds +/- 2%
Pulse width: 1.0, 2.0, 5.0 milliseconds +/- 2%
Pulse duty cycle: 1:9 (10%), 1:4 (20%), 1:1 (50%) respectively +/- 2%

Treatment Timer

Maximum treatment time

At time expiration

30 minutes +/- 2%
time display shows zero and a two second audible alarm sounds.

Contact Display Function

Function

Displays the degree of contact being made with the patient by the treatment applicator. Loss of contact, which activates the contact control feature, occurs at approximately 25% of full scale.

Contact Control Function

To detect poor acoustic coupling between ultrasonic treatment applicator and patient. At detection of contact loss the indicator on applicator illuminates red and after 1 second the treatment timer is halted, treatment time display flashes and ultrasonic output power is reduced. On contact detection the treatment timer is restarted and ultrasonic output power is restored to the selected value.

ELECTRICAL SAFETY:

Manufactured to Standards: AS3200.1 (1990)

AS3211 (1986)

Conformity

Applied Parts:

Applied Parts

Classification:

Device Classification:

- Approval and Test Specification Medical Electrical Equipment Part 1: General Requirements (direct reprint of IEC 601-1: 1998)
- Approval and Test Specification Ultrasonic Therapy Equipment Complies with Medical Device Directive (CE) Treatment applicators

BF

Class I Equipment

DIMENSIONS:

| | | | |
|--------|------|--------|---------|
| Width | 10" | Depth | 10" |
| Height | 4.8" | Weight | 5.5 lbs |

ORDERING DETAILS:

METACCUSONICDUALFREQ ACCUSONIC PLUS COMPLETE WITH MULTI-FREQUENCY LARGE HEAD AND GEL

Supplied with the following accessories:

| | |
|------------------------|---|
| 1 x METACCUSONICPLH1.5 | Multi-frequency head (large) 2", 1&3MHz |
| 1 x PHYSIOGELU250ML | 250ml Ultrasound Gel |
| 1 x METPOWERCABLE | Mains lead |

Optional accessories:

| | |
|--------------------|---------------------------------------|
| METTROLLEYT7270 | Trolley Metal Shelf & Wire Baskets |
| METACCUSONICPLH3.7 | Ultrasound Plus HEAD 3MHZ .75SQ/C MHz |