



ACCUSONIC

(1Mhz Ultrasound)

The METRON Accusonic therapeutic Ultrasound offers 1 MHz ultrasound through a detachable applicator.

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

For instance : -

- if during the treatment, insufficient contact occurs, then the treatment timer will stop, and the ultrasound output is reduced. Once sufficient contact is detected, then treatment will continue.
- the internal service software runs the calibration procedures, minimising the technician's involvement.
- communicates with the transducer to correctly monitor and control frequency and contact sensing.

 **metron**
advanced health technology

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ACCUSONIC Specifications

ULTRASOUND OUTPUT:

Frequency	1.1 MHz +/- 10%
Output intensity in continuous mode (Equivalent to 15 watts absolute)	2.4 Watts/cm ² +/- 20% maximum
Effective Radiating Area	Nominally 5.0 square cms +/- 20%
Beam Non-Uniformity Ratio	Nominally 5:1 +/- 20%
Ultrasound Modulation	continuous or pulsed
Modulation modes	Pulse frequency 100 Hz +/- 2%
Pulsed modulation:	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	30 minutes +/- 2%
At time expiration	time display shows zero and a two second audible alarm sounds.
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 from that selected to 0.2 Watts/cm ² . At detection of contact the treatment timer is restarted and ultrasonic output power is restored to the selected value.

Purpose/rationale
To ensure the patient receives the required ultrasound dose and to prevent damage to ultrasonic treatment applicator by heat generated in ultrasonic transducer if it was operated unloaded.

ELECTRICAL SAFETY:

Manufactured to Standards:
AS3200.1 (1990)

- Approval and Test Specification Medical Electrical Equipment Part 1: General Requirements (direct reprint of IEC 601-1: 1998)
- Approval and Test Specification Ultrasonic Therapy

AS3211 (1986)

Equipment

Applied Parts:

Applied Parts

Classification:

Device Classification:

Conformity

Treatment applicators

BF

Class I Equipment

Complies with Medical Device Directive (CE)

DIMENSIONS:

Width

10"

Height

4.8"

Depth

10"

WEIGHT:

5.5 lbs

ORDERING DETAILS:

METACCUSONIC

ACCUSONIC 1 MHz ULTRASOUND UNIT
COMPLETE WITH 250ML ULTRASOUND
GEL AND OPERATING INSTRUCTIONS

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