

FONIX 8000 Hearing Aid Test System

SPECIFICATIONS

ACOUSTICAL OUTPUTS

Frequencies:	200-8000 Hz in 100 Hz intervals (user interface) 200-8000 Hz in 50 Hz intervals (RS232) 1% 40-100 dB in 5 dB intervals coupler, 40-90 dB in 5 dB intervals re-ear (user interface)
Frequency Accuracy:	40-100 dB in 0.01 dB intervals coupler, 40-90 dB in 0.01 dB intervals real-ear (RS232) Coupler: ± 1 dB from 300 to 5000 Hz, all others ± 3 dB (after leveling)
Amplitudes:	Real-ear: ± 3 dB, 200-8000 Hz (after leveling)
Accuracy:	Puretone: $< 0.5\%$, 400-2500 Hz
Distortion (at 70 dB SPL):	

TELECOIL OUTPUTS

Field Strength:	1, 1.78, 3.16, 5.62, 10, 17.8, 31.6, 56.2, 100 mA/m (user interface) 0-180 mA/m in 0.01 mA/m specified intervals (RS232)
Accuracy:	± 2 dB

BATTERY CURRENT

Readout Range:	0.00-25.00 mA
Available Current:	greater than 50 milliamps
Accuracy: Resolution:	$\pm 5\%$ of reading \pm one digit
Voltages supplied:	8 μ A
Voltage Accuracy:	1.5 (silver), 1.3 (zinc air)
Resistance accuracy:	± 15 millivolts. (open circuit) ($\pm 6\% \pm 0.5$ ohm)

DIGITAL READOUT OF SOUND PRESSURE LEVEL

Frequency Range:	200-8000 Hz
Amplitude Range: 0-	150 dB SPL 0.1 dB Coupler mic: ± 1.0 dB ± 1 digit, 300-5000 Hz, ± 2 dB ± 1 digit all other frequencies
Resolution:	Probe mic: ± 2.5 dB ± 1 digit, 250-8000 Hz Ref mic: ± 3 dB ± 1 digit, 100-8000 Hz
Accuracy:	

HARMONIC DISTORTION ANALYZER

Type:	2nd, 3rd, Total (2nd plus 3rd)
Resolution:	0.1%

ATTACK/RELEASE

Range:	1.25 to 5000 mSec.
Accuracy:	$\pm 10\%$ or ± 2 ms, whichever is larger Puretone:
Signals:	200-8000 Hz, in 100 Hz intervals (user interface), 50 Hz intervals (RS232), Composite

GUARANTEE

The FONIX 8000 and its accessories are guaranteed to be free from manufacturing defects which would prevent the products from meeting these specifications for a period of one year from date of purchase.

AVAILABLE TESTS

Automated Test Sequences:	ANSI S3.22-1987, ANSI S3.22-1996, ANSI S3.22-2003, ANSI S3.22-2009, ANSI S3.42-1992, ANSI S3.22-2014, IEC 60118-7:1994, IEC 60118-7:2005, JIS:2000, JIS:2015
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Additional Coupler Tests:	Profiler, ISTS, Enhanced DSP, Input/Output, Attack & Release, Battery Current, Coupler Multicurve
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REAL-EAR: (pending)

Audiogram Entry, Target Edit, Insertion Gain,
Real-ear SPL, Visible Speech

POWER

Source voltage:	100-240 volt AC.
Frequency Range:	50-60 Hz.
Power Requirement:	0.6 A.
Fuse:	T 630mA, 0.63A / 250 V~, Type T, IEC 60127-2 Sheet III (Slo-Blo Type, Glass, 5mm x 20mm) . Qty 2.

ELECTRONICS MODULE

Size:	17.3"W x 10.8"D x 6.5"H (43.9 x 27.4 x 16.5 cm) .
Weight:	14.3 lbs.(6.5 kg) .

PRINTER - INTERNAL

Type: Paper width:	High speed line thermal printer 4.41" (112 mm)
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TEST CHAMBER: 8050 MID-SIZED

Test Area:	5"W x 6"D x 1.5"H (12.7 x 15.2 x 3.8 cm).
Ambient Noise Isolation:	45 dB at 1 kHz (allows THD mea- surement to within 3% at 60 dB source level and a 60 dB ambient). 11.5"W x 13.5"D x 9.2"H (29.2 x 34.3 x 23.4cm).
Size:	
Weight:	21.8 lbs. (9.9 kg).

ENVIRONMENTAL CONDITIONS

Shipping/Storage Humidity:	5 to 95 percent relative humidity (non-condensing)
Shipping/Storage Temperature:	20 to 60 degrees Celsius (-4 to 140 degrees Fahrenheit)
Operating Relative Humidity:	5 to 90 percent relative humidity (non-condensing)
Operating Temperature:	15 to 35 degrees Celsius



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