

# 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)
Frequency Accuracy:	1%
Amplitudes:	40-100 dB in 5 dB intervals, (user interface) 40-100 dB in 0.01 dB intervals, (RS232)
Accuracy:	±1 dB from 300 to 5000 Hz, all others ±3 dB (after leveling)
Distortion (at 70 dB SPL):	Puretone: < 0.5%, 400-2500 Hz

### 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:	Accuracy: ±2 dB

### BATTERY CURRENT

Readout Range:	0.00-25.00 mA
Available Current:	greater than 50 milliamps
Accuracy:	± 5% of reading ± one digit
Zero adjust:	Automatic (Remove battery pill then press LEVEL button.)
Resolution:	0.01 mA
Voltages supplied:	1.5 (silver), 1.3 (zinc air)
Voltage Accuracy:	±15 millivolts.
Resistance accuracy:	(± 6% ± 0.5 ohm)

### DIGITAL READOUT OF SOUND PRESSURE LEVEL

Frequency Range:	200-8000 Hz
Amplitude Range:	0-150 dB SPL
Resolution:	0.1 dB
Accuracy:	±1.0 dB ±1 digit, 300-5000 Hz, ±2 dB ± 1 digit all other frequencies

### HARMONIC DISTORTION ANALYZER

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

### ATTACK/RELEASE

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

### AVAILABLE TESTS

Automated Test Sequences:	ANSI S3.22-1987, ANSI S3.22-1996, ANSI S3.22-2003, IEC 60118-7:1994, IEC 60118-7:2005, ANSI S3.42-1992, JIS:2000
Additional Coupler Tests:	Enhanced DSP, Input/Output, Attack & Release, Battery Current, Coupler Multicurve
Optional:	Coupler Directional (requires 8120 Polar Plot Chamber)

### POWER

Source voltage:	100-240 volt AC.
Frequency Range:	50-60 Hz.
Power Requirement:	0.6 A.
Fuse:	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 6.5"H x 10.8"D (43.9 x 16.5 x 27.4 cm).
Weight:	14.3 lbs.(6.5 kg).

### PRINTER, INTERNAL

Type:	High speed line thermal printer
Paper width:	4.41" (112 mm)

### TEST CHAMBER: 8120 POLAR PLOT

Test Area:	4"W x 4"D x 1.75"H (10.2 x 10.2 x 4.4cm) with Chamber Basket 4"W x 4"D x 1.75"H + 5.375" cavity height (10.2 x 10.2 x 4.4 + 13.7 cm) with Rotating Shaft
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).
Size:	13.5"W x 19"H x 14.5"D (34.3 x 48.3 x 36.8cm).
Weight:	40.4 lbs. (18.3 kg).

### 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).
Size:	13.5"W x 9.2"H x 11.5"D (34.3 x 23.4 x 29.2 cm).
Weight:	21.8 lbs. (9.9 kg).

### 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.



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