

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 coupler, 40-90 dB in 5 dB intervals relear (user interface) 40-100 dB in 0.01 dB intervals coupler, 40-90 dB in 0.01 dB intervals real-ear (RS232)
Accuracy:	Coupler: ± 1 dB from 300 to 5000 Hz, all others ± 3 dB (after leveling) Real-ear: ± 3 dB, 200-8000 Hz (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:	± 2 dB

BATTERY CURRENT

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

DIGITAL READOUT OF SOUND PRESSURE LEVEL

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

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
Signals:	Puretone: 200-8000 Hz, in 100 Hz intervals (user interface), 50 Hz intervals (RS232), Composite

AVAILABLE TESTS

Automated Test Sequences:	ANSI S3.22-1987, ANSI S3.22-1996, ANSI S3.22-2003, ANSI S3.22-2009, IEC 60118-7:1994, IEC 60118-7:2005, ANSI S3.42-1992, JIS:2000
Additional Coupler Tests:	Profiler, ISTS, Enhanced DSP, Input/Output, Attack & Release, Battery Current, Coupler Multicurve
Real-Ear:	Audiogram Entry, Target Edit, Insertion Gain, Real-ear SPL, Visible Speech
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:	T 630mAL, 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:	High speed line thermal printer
Paper width:	4.41" (112 mm)

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 measurement to within 3% at 60 dB source level and a 60 dB ambient).
Size:	11.5"W x 13.5"D x 9.2"H (29.2 x 34.3 x 23.4cm).
Weight:	21.8 lbs. (9.9 kg).

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 Removable Test Surface 4"W x 4"D x 1.75"H + 5.38" 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 measurement 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).

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

MONITOR HEADSET

Monitored channel:	Probe microphone
Headphone type:	Stereo 3.5mm
Usable headphone impedance:	32 ohms to 600 ohms (intended for Walkman style headphones)

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.



FRYE ELECTRONICS, INC.

P.O. Box 23391 • Tigard, OR 97281-3391 • USA
(503) 620-2722 • (800) 547-8209
Fax: (503) 639-0128
www.frye.com • email: sales@frye.com