

# FONIX FP35 Portable Hearing Aid Analyzer

## SPECIFICATIONS

### ACOUSTICAL OUTPUTS

Frequencies:	200-8000 Hz in 100 Hz intervals (user interface) 200-8000 Hz in 1 Hz intervals (RS232)
Frequency Accuracy:	1%.
Amplitudes:	40-100 dB in 5 dB intervals coupler, 40-90 dB in 5 dB intervals real-ear (user interface) 40-100 dB in 0.01 dB intervals coupler, 40-90 dB in 0.01 dB real-ear (RS232)
Accuracy:	Coupler: $\pm 2.5$ dB from 300 to 5000 Hz, all others $\pm 3.5$ dB (after leveling) Real-ear: $\pm 3$ dB, 200-8000 Hz (after leveling)
Distortion (at 70 dB SPL):	Puretone: $< 0.5\%$ , 400-2500 Hz

### TELECOIL OUTPUTS

Field Strength:	TMFS, 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:	$\pm 2$ dB

### DIGITAL READOUT OF SOUND PRESSURE LEVEL

Frequency Range:	200-8000 Hz
Amplitude Range:	0-150 dB SPL
Resolution:	0.1 dB
Accuracy:	Coupler measurements: $\pm 2.0$ dB Probe measurements: $\pm 2.0$ dB Reference measurements: $\pm 2.0$ dB
Equivalent Input Noise:	$< 50$ dB RMS

### MEASUREMENT INPUTS

Probe Microphone:	Crosstalk from reference microphone: $< -80$ dB Crosstalk from coupler microphone: $< -80$ dB
Reference Microphone:	Crosstalk from probe microphone: $< -80$ dB Crosstalk from coupler microphone: $< -80$ dB

### HARMONIC DISTORTION ANALYZER

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

### AVAILABLE TESTS

Automated test sequences:	ANSI S3.22-1996, ANSI S3.22-2003, IEC 60118-7:1994, JIS:2000, ISI
Additional Coupler Test:	Coupler Multicurve, Coupler Target, Coupler EarSim
Real-ear Test Screens:	Audiogram Entry, Insertion Gain, Real-ear Unaided & Aided, Real-ear SPL

### INPUT POWER

Voltage:	100 - 240 volt AC
Frequency Range:	47 - 63 Hz
Current:	1.35A
Power dissipation:	27 watts typical with full operation. 23 watts when unit is in Standby.
Earth Leakage current:	$< 500$ uA
Patient Leakage current:	$< 100$ uA

### PHYSICAL DIMENSIONS

Net Size:	16 x 11 x 4.9 inches
Net Weight:	12 lbs (5.45 Kg) with softcase and all accessories (except manual)
Touch Screen:	Resistive

### INTERNAL PRINTER

Type:	Thermal
Paper width:	80 mm (+0, -1 mm)

### EXTERNAL PRINTER

Interface:	Parallel
Language:	HP PCL3

### INTERNAL SOUND CHAMBER DIMENSIONS

Test area:	2.65" W x 5.25" L x 1.1" H
Speaker:	2.5" cone

### ENVIRONMENTAL CONDITIONS

Operating Conditions:	15 - 35° C (59 - 95° F), 5-85% humidity (non-condensing)
Shipping Conditions:	-20 - 60° C (-4 - 140° F), 5-85% humidity (non-condensing)



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