BALANCE™ Specification Guide

balance

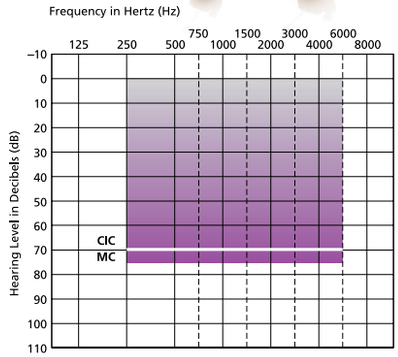
SONIC innovations

Completely-in-the-Canal (CIC)/ Mini-Canal (MC)

Ear Simulator (IEC 118-0)		2cc coupler (ANSI S3.22-1996)	
Max Output OSPL90 (P1)	119 dB SPL	Max Output (OSPL90) (P1)	111 dB SPL
Max Output (OSPL90), 1600Hz (P1)	115/116 dB SPL	HFA-OSPL90 (P1)	106 dB SPL
Full-On Gain (P1)	40/45 dB	Peak Gain (P1)	31/36 dB
Full-On Gain, 1600 Hz (P1)	39/43 dB	HFA Full-On Gain (P1)	30/34 dB
Reference Test Gain (P2)	35/39 dB	Reference Test Gain (P2)	29 dB
Frequency Range (P2)	200 - 7500 Hz	Frequency Range (P2)	200 Hz – 7500 Hz
Total Harmonic Distortion (P2)		Total Harmonic Distortion (P2)	
--------- 500 Hz	2%	--------- 500 Hz	2%
--------- 800 Hz	1%	--------- 800 Hz	1%
--------- 1600 Hz	1%	--------- 1600 Hz	1%
Equivalent Input Noise*	< 23 dB SPL	Equivalent Input Noise*	< 23 dB SPL
Battery Current (P2)	0.88/0.89 mA	Battery Current (P2)	0.88/0.89 mA
Attack Time (P2)	10 msec @ 2kHz	Attack Time (P2)	10 msec @ 2kHz
Recovery Time (P2)	12 msec @ 2kHz	Release Time (P2)	12 msec @ 2kHz
EMC IRIL (800 – 960 MHz Peak)	< 20 dB SPL		
EMC IRIL (1400 – 2000 MHz Peak)	< 40 dB SPL		

(P1) = maximum compression program / (P2) = reference test gain program
*In-office tests may show a higher EIN unless tested in an Anechoic chamber with isolation > 40dB from 100Hz to 10kHz, and Measurement Microphone noise < 25dB SPL over 20Hz to 20kHz.
For more information, contact our Customer Care Department: 1-888-423-7834

Fitting Range



AVAILABLE OPTIONS

- Memory Switch

In-the-Canal (ITC)

Ear Simulator (IEC 118-0)		2cc coupler (ANSI S3.22-1996)	
Max Output OSPL90 (P1)	119 dB SPL	Max Output (OSPL90) (P1)	111 dB SPL
Max Output (OSPL90), 1600Hz (P1)	116 dB SPL	HFA-OSPL90 (P1)	106 dB SPL
Full-On Gain (P1)	47 dB	Peak Gain (P1)	38 dB
Full-On Gain, 1600 Hz (P1)	45 dB	HFA Full-On Gain (P1)	36 dB
Reference Test Gain (P2)	40 dB	Reference Test Gain (P2)	29 dB
Frequency Range (P2)	200 - 7500 Hz	Frequency Range (P2)	200 - 7500 Hz
Total Harmonic Distortion (P2)		Total Harmonic Distortion (P2)	
--------- 500 Hz	2%	--------- 500 Hz	2%
--------- 800 Hz	1%	--------- 800 Hz	1%
--------- 1600 Hz	1%	--------- 1600 Hz	1%
Equivalent Input Noise*	< 23 dB SPL	Equivalent Input Noise*	< 23 dB SPL
Battery Current (P2)	0.89 mA	Battery Current (P2)	0.89 mA
Attack Time (P2)	10 msec @ 2kHz	Attack Time (P2)	10 msec @ 2kHz
Recovery Time (P2)	12 msec @ 2kHz	Release Time (P2)	12 msec @ 2kHz
EMC IRIL (800 – 960 MHz Peak)	< 20 dB SPL		
EMC IRIL (1400 – 2000 MHz Peak)	< 40 dB SPL		

(P1) = maximum compression program / (P2) = reference test gain program
*In-office tests may show a higher EIN unless tested in an Anechoic chamber with isolation > 40dB from 100Hz to 10kHz, and Measurement Microphone noise < 25dB SPL over 20Hz to 20kHz.
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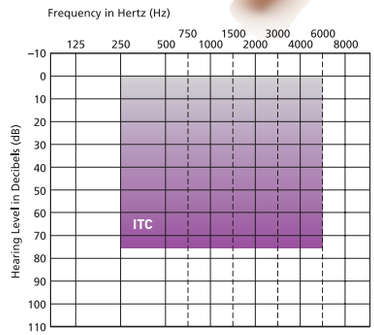
Fitting Range



AVAILABLE OPTIONS

- Memory Switch
- Directionality
- Programmable Telecoil
- On/Off Switch
- Volume Control with On/Off

Half-Shell (HS)

Ear Simulator (IEC 118-0)		2cc coupler (ANSI S3.22-1996)	
Max Output OSPL90 (P1)	124 dB SPL	Max Output (OSPL90) (P1)	117 dB SPL
Max Output (OSPL90), 1600Hz (P1)	120 dB SPL	HFA-OSPL90 (P1)	111 dB SPL
Full-On Gain (P1)	51 dB	Peak Gain (P1)	43 dB
Full-On Gain, 1600 Hz (P1)	49 dB	HFA Full-On Gain (P1)	40 dB
Reference Test Gain (P2)	44 dB	Reference Test Gain (P2)	34 dB
Frequency Range (P2)	200 Hz – 7500 Hz	Frequency Range (P2)	200 Hz – 7500 Hz
Total Harmonic Distortion (P2)		Total Harmonic Distortion (P2)	
--------- 500 Hz	3%	--------- 500 Hz	3%
--------- 800 Hz	2%	--------- 800 Hz	2%
--------- 1600 Hz	1%	--------- 1600 Hz	1%
Equivalent Input Noise*	< 23 dB SPL	Equivalent Input Noise*	< 23 dB SPL
Battery Current (P2)	.89 mA	Battery Current (P2)	.89 mA
Attack Time (P2)	10 msec @ 2kHz	Attack Time (P2)	10 msec @ 2kHz
Recovery Time (P2)	12 msec @ 2kHz	Release Time (P2)	12 msec @ 2kHz
EMC IRIL (800 – 960 MHz Peak)	< 20 dB SPL		
EMC IRIL (1400 – 2000 MHz Peak)	< 40 dB SPL		

(P1) = maximum compression program / (P2) = reference test gain program
*In-office tests may show a higher EIN unless tested in an Anechoic chamber with isolation > 40dB from 100Hz to 10kHz, and Measurement Microphone noise < 25dB SPL over 20Hz to 20kHz.
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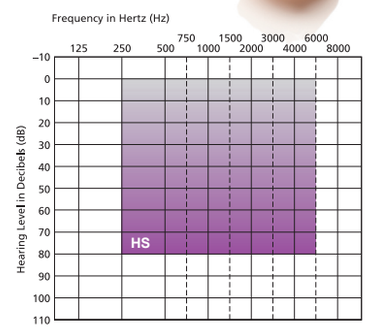
Fitting Range



AVAILABLE OPTIONS

- Memory Switch
- Directionality
- Programmable Telecoil
- On/Off Switch
- Volume Control with On/Off

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In-the-Ear (ITE) & In-the-Ear-Power (ITE-P)

Ear Simulator (IEC 118-0)		2cc coupler (ANSI S3.22-1996)	
Max Output OSPL90 (P1)	124/129 dB SPL	Max Output (OSPL90) (P1)	117/120 dB SPL
Max Output (OSPL90), 1600Hz (P1)	120/124 dB SPL	HFA - OSPL90 (P1)	111/115 dB SPL
Full - On Gain (P1)	56/62 dB	Peak Gain (P1)	48/52 dB
Full - On Gain, 1600 Hz (P1)	54/59 dB	HFA Full - On Gain (P1)	45/50 dB
Reference Test Gain (P2)	45/49 dB	Reference Test Gain (P2)	34/38 dB
Frequency Range (P2)	200 Hz – 7500 Hz	Frequency Range (P2)	200 Hz – 7500 Hz
Total Harmonic Distortion (P2)		Total Harmonic Distortion (P2)	
--------- 500 Hz	3%	--------- 500 Hz	3%
--------- 800 Hz	2%	--------- 800 Hz	2%
--------- 1600 Hz	1%	--------- 1600 Hz	1%
Equivalent Input Noise*	< 23 dB SPL	Equivalent Input Noise*	< 23 dB SPL
Battery Current (P2)	0.89/0.95 mA	Battery Current (P2)	0.89/0.95 mA
Attack Time (P2)	10 msec @ 2kHz	Attack Time (P2)	10 msec @ 2kHz
Recovery Time (P2)	12 msec @ 2kHz	Release Time (P2)	12 msec @ 2kHz
EMC IRIL (800 – 960 MHz Peak)	< 20 dB SPL		
EMC IRIL (1400 – 2000 MHz Peak)	< 40 dB SPL		

(P1) = maximum compression program / (P2) = reference test gain program
*In-office tests may show a higher EIN unless tested in an Anechoic chamber with isolation > 40dB from 100Hz to 10kHz, and Measurement Microphone noise < 25dB SPL over 20Hz to 20kHz.
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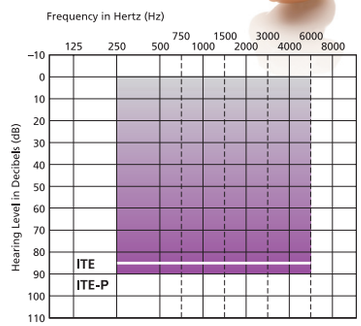
Fitting Range



AVAILABLE OPTIONS

- Memory Switch
- Directionality
- Programmable Telecoil
- On/Off Switch
- Volume Control with On/Off

micro Behind-the-Ear (mBTE)

Ear Simulator (IEC 118-0)		2cc coupler (ANSI S3.22-1996)	
Max Output OSPL90 (P1)	128 dB SPL	Max Output (OSPL90) (P1)	121 dB SPL
Max Output (OSPL90), 1600Hz (P1)	124 dB SPL	HFA- OSPL90 (P1)	114 dB SPL
Full - On Gain (P1)	60 dB	Peak Gain (P1)	53 dB
Full - On Gain, 1600 Hz (P1)	60 dB	HFA Full - On Gain (P1)	50 dB
Reference Test Gain (P2)	42 dB	Reference Test Gain (P2)	37 dB
Frequency Range (P2)	200-7500 Hz	Frequency Range (P2)	200-7500 Hz
Total Harmonic Distortion (P2)		Total Harmonic Distortion (P2)	
--------- 500 Hz	4%	--------- 500 Hz	4%
--------- 800 Hz	2%	--------- 800 Hz	2%
--------- 1600 Hz	1%	--------- 1600 Hz	1%
Equivalent Input Noise*	< 23 dB SPL	Equivalent Input Noise*	< 23 dB SPL
Battery Current (P2)	1.00 mA	Battery Current (P2)	1.00 mA
Attack Time (P2)	10 msec @ 2kHz	Attack Time (P2)	10 msec @ 2kHz
Recovery Time (P2)	12 msec @ 2kHz	Release Time (P2)	12 msec @ 2kHz
EMC IRIL (800 – 960 MHz Peak)	< 20 dB SPL		
EMC IRIL (1400 – 2000 MHz Peak)	< 40 dB SPL		

Specifications as calibrated for standard ear hook with custom mold.
(P1) = maximum compression program / (P2) = reference test gain program.
*In-office tests may show a higher EIN unless tested in an Anechoic chamber with isolation > 40dB from 100Hz to 10kHz, and Measurement Microphone noise < 25dB SPL over 20Hz to 20kHz.
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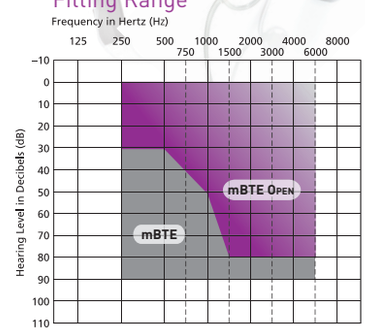
Fitting Range



AVAILABLE OPTIONS

- Memory Switch
- Directionality
- Integrated On/Off in Battery Door

Behind-the-Ear (BTE)

Ear Simulator (IEC 118-0)		2cc coupler (ANSI S3.22-1996)	
Max Output OSPL90 (P1)	134 dB SPL	Max Output (OSPL90) (P1)	130 dB SPL
Max Output (OSPL90), 1600Hz (P1)	128 dB SPL	HFA- OSPL90 (P1)	123 dB SPL
Full - On Gain (P1)	72 dB	Peak Gain (P1)	63 dB
Full - On Gain, 1600 Hz (P1)	67 dB	HFA Full - On Gain (P1)	60 dB
Reference Test Gain (P2)	53 dB	Reference Test Gain (P2)	46 dB
Frequency Range (P2)	200 - 6500 Hz	Frequency Range (P2)	200 - 6500 Hz
Total Harmonic Distortion (P2)		Total Harmonic Distortion (P2)	
--------- 500 Hz	3%	--------- 500 Hz	3%
--------- 800 Hz	2%	--------- 800 Hz	2%
--------- 1600 Hz	1%	--------- 1600 Hz	1%
Equivalent Input Noise*	< 23 dB SPL	Equivalent Input Noise*	< 23 dB SPL
Battery Current (P2)	1.05 mA	Battery Current (P2)	1.05 mA
Attack Time (P2)	10 msec @ 2kHz	Attack Time (P2)	10 msec @ 2kHz
Recovery Time (P2)	12 msec @ 2kHz	Release Time (P2)	12 msec @ 2kHz
EMC IRIL (800 – 960 MHz Peak)	< 20 dB SPL		
EMC IRIL (1400 – 2000 MHz Peak)	< 40 dB SPL		

(P1) = maximum compression program / (P2) = reference test gain program
*In-office tests may show a higher EIN unless tested in an Anechoic chamber with isolation > 40dB from 100Hz to 10kHz, and Measurement Microphone noise < 25dB SPL over 20Hz to 20kHz.
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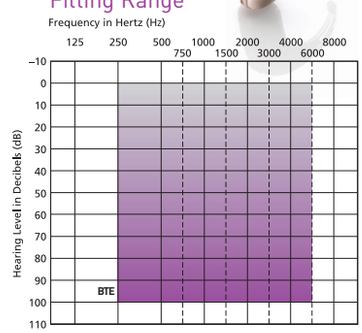

AVAILABLE OPTIONS

- Memory Switch
- Directionality
- Integrated On/Off in Battery Door
- Volume Control with On/Off
- Programmable Telecoil
- Direct Audio Input Capability