

# A13 ISP

Input compression limiting with variable release time for moderate losses.

## Standard Features:

Three Trimmers for tone, output and compression

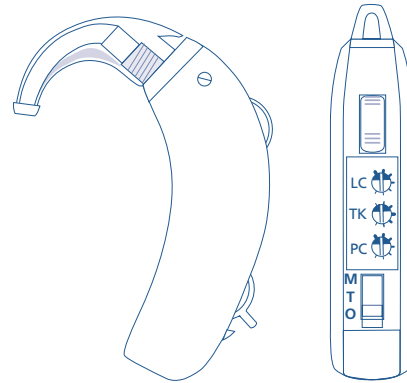
High Performance Telecoil

Direct Audio Input (DAI)

Standard I3 battery

Hinged trimmer cover

Numbered volume control



## Options:

DAI Accessories

CROS/BICROS

Filtered Earhooks

Tamper Proof battery door and volume control cover

Wide variety of case colors

Size 1.4" x .46" x .37"  
36 x 12 x 9 mm

Weight .14 oz. / 4 gm without battery

Power Source 1.3 V type I3

## Electrical and Acoustic Data:

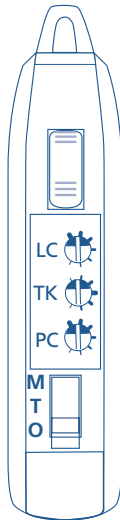
	ANSI S 3.22 1987		IEC 118-0 1983 RTF = 1600 Hz	
	TK=CCW	TK=CW	TK=CCW	TK=CW
SSPL 90 (OSPL-90)				
max dB	131	124	137	133
HFA dB	125±4	118±4	132	125
Full On Gain				
max dB	60	60	63	63
HFA dB	54±5	54±5	57	57
Total Harmonic Distortion				
500 Hz % max	<15	<8	<10	<7
800 Hz % max	<10	<5	<6	<5
1600 Hz % max	<5	<2	<3	<3
Reference Test Gain dB	54	54	57	57
Induction Coil				
10mA/m @ 1000 Hz (in dB SPL) 1mA/m @ RTF	112±6	112±6	106	106
Equivalent Input Noise dB max	≤25	≤25	≤25	≤27
Battery Current mA Nom.	2.5	2.1	2.6	2.3
Frequency Range Hz	200-5200	200-5300	200-5200	200-5300
Attack/Release Time				
short stimulus ms	<5/25	<5/30		
long stimulus ms	<5/150	<5/300		
IEC low level ms			<5/130	<5/350
IEC high level ms			<5/600	<5/600



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## Potentiometer Operation:

The potentiometers are located behind a protective panel below the volume control.



### Tone or Low Cut (LC)

The "LC" control is used to reduce the low frequency amplification. It is set at "counterclockwise" at the factory. Rotation "clockwise" will reduce low frequencies.

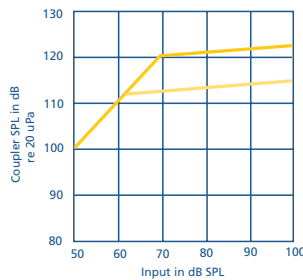
### Compression Kneepoint (TK)

The "TK" control adjusts the sensitivity of the compression kneepoint. It is set at "counterclockwise" at the factory. Rotation "clockwise" will reduce the compression kneepoint.

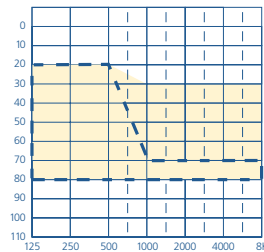
### Power Output Control (PC)

The "PC" control is used to adjust the maximum output. It is set at "counterclockwise" at the factory. Rotation "clockwise" will decrease the maximum output.

signal: 2000 Hz  
LC: CCW  
PC: CCW  
volume control: FULL ON



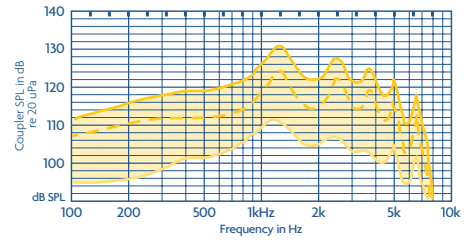
Input/Output Function



Suggested Fitting Range

input: 90 dB SPL  
LC: CCW  
TK = CCW, PC = CCW  
TK = CW, PC = CCW  
TK = CCW, PC = CW

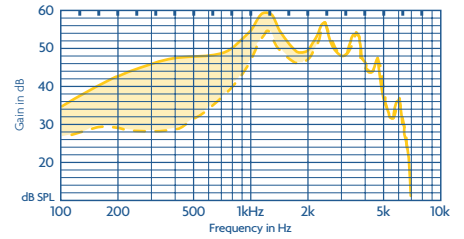
volume control: FULL ON



SSPL 90 and Effect of PC and TK Adjustments

input: 50 dB SPL  
PC: CCW  
TK: CCW  
LC = CCW, LC = CW

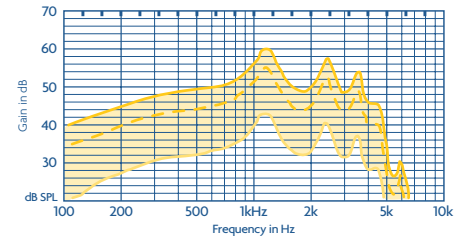
volume control: FULL ON



Full On Gain and Effect of LC Adjustment

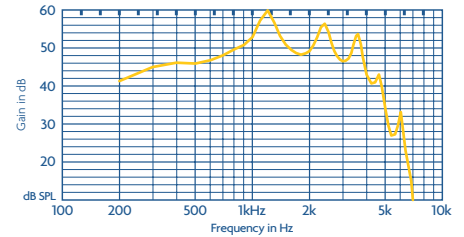
input: 50 dB SPL  
PC: CCW  
LC: CCW  
TK: CCW  
VC = 4, VC = 3, VC = 2

volume control: FULL ON



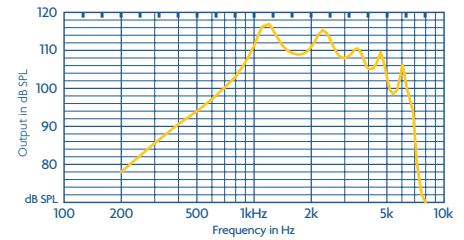
Full On Gain vs. Volume Control Settings

input: 50 dB SPL  
LC: CCW  
TK: CCW  
PC: CCW  
volume control: FULL ON



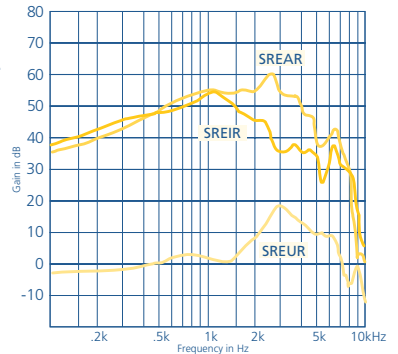
Frequency Response

input: 10 mA/m  
LC: CCW  
TK: CCW  
PC: CCW  
volume control: FULL ON



Telecoil Response

random noise input: 50 dB SPL @ 0° incidence



Simulated Real Ear on Kemar