



## Conversa.NT Custom

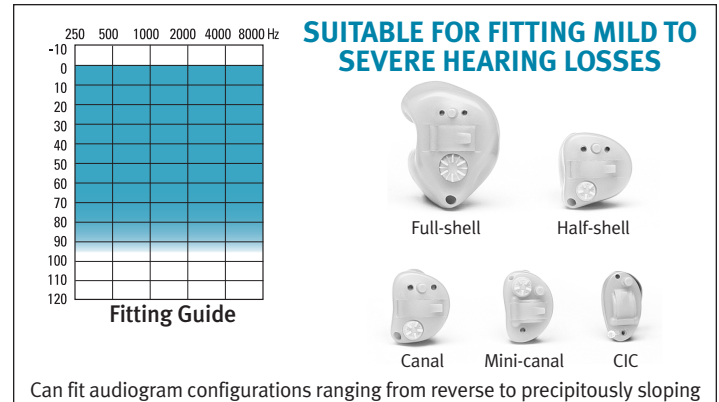
Speech Enhancement  
Adaptive Beamformer, Realtime Feedback Canceller

### HEARING AID FEATURES

- Speech enhancement based on an intelligent signal detection system identifies and automatically emphasizes speech signals independently in each of the 16 channels. Choice of settings: Off, Moderate, Maximum
- Adaptive beamformer manages noise from any direction, even if it is in motion, for improved speech intelligibility
- Realtime feedback canceller reacts within milliseconds using independent narrow band detectors to provide precise and adaptive feedback cancellation
- Intelligent noise reduction analyzes inputs on three dimensions and automatically reduces noise signals independently in each of the 16 channels. Choice of settings: Off, Mild, Moderate, Maximum
- Wind noise manager intuitively engages based on moderate or high wind conditions providing more enjoyment in outdoor pursuits
- 16 channels provide high resolution signal processing
- Dynamic range mapping functions independently across all 16 channels to allow accurate mapping of a wide range of input levels (quiet mode expansion, linear, wide dynamic range compression, output compression limiting)
- Up to three programs allowing customization for different listening environments
- Wearers choose program through program button; audible beep confirms selection
- Ideal volume indicator provides beep notification when correct gain is reached on the volume control
- Manual volume control can be disabled through Unifit™
- Start up mute
- Low battery warning
- Conversa.NT can be programmed using NOAH-compatible Unifit software or standalone version of Unifit

### OPTIONS

- Telecoil (T) or Microphone/Telecoil (MT) option can be set in any of the three programs. Available in canal to full-shell styles
- Easy t-coil for automatic telecoil operation
- Directional for canal to full-shell styles

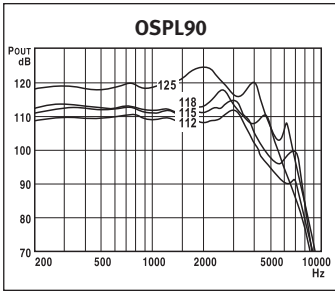


IEC 118-7 2CC COUPLER					
Styles	CIC	Mini-canal	Canal Half-shell	Full-shell	Full-shell Power
Frequency Range (Hz)	100-7100	100-7100	100-7100	100-7100	100-6200
Peak Gain	40 dB	45 dB	45 dB	50 dB	60 dB
Peak Output	112 dB	112 dB	115 dB	118 dB	125 dB
Reference Test Gain	21 dB	23 dB	24 dB	29 dB	41 dB
Full on Average Gain*	30 dB	34 dB	34 dB	41 dB	51 dB
Average Output*	109 dB	109 dB	111 dB	113 dB	120 dB
Reference Test Frequency	1.6 kHz	1.6 kHz	1.6 kHz	1.6 kHz	1.6 kHz
Full on Gain at 1.6 kHz	31 dB	35 dB	35 dB	41 dB	53 dB
Output at 1.6 kHz	108 dB	108 dB	111 dB	112 dB	122 dB
Typical Battery Life (Zinc Air Premium)	90 h 10A	90 h 10A	150 h 312	290/150 h 13/312	265 h 13
Current Drain at RTG	1.0 mA	1.0 mA	1.0 mA	1.0 mA	1.1 mA
Output with Inductive Input at 1.6 kHz	N/A	68 dB	68 dB	74 dB	83 dB
Equivalent Input Noise at RTG (50 dB in)	22 dB	22 dB	22 dB	21 dB	21 dB
Fast Time Constant					
Attack Time					< 40 ms
Release Time					100 ms
Slow Time Constant					
Attack Time					200 ms
Release Time					300 ms
Compression Ratio					
Wide Dynamic Range Compression					4:1 to 1:1
Output Compression Limiting					20:1

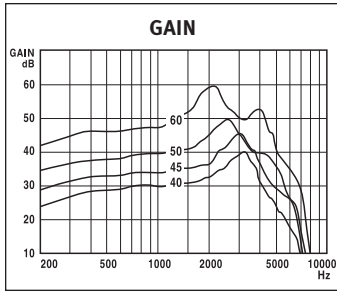
Note: Technical data generated with Quiet Mode Expansion "On"  
\*Average of 500, 1000 and 1600 Hz

IEC 118-0 EAR SIMULATOR TECHNICAL DATA					
Styles	CIC	Mini-canal	Canal Half-shell	Full-shell	Full-shell Power
Frequency Range (Hz)	100-7200	100-7200	100-7200	100-7200	100-7000
Peak Gain	52 dB	56 dB	56 dB	61 dB	70 dB
Peak Output	124 dB	124 dB	126 dB	128 dB	134 dB
Reference Test Gain	30 dB	33 dB	33 dB	38 dB	49 dB
Full on Gain at 1.6 kHz	40 dB	44 dB	44 dB	50 dB	61 dB
Output at 1.6 kHz	117 dB	117 dB	119 dB	121 dB	130 dB

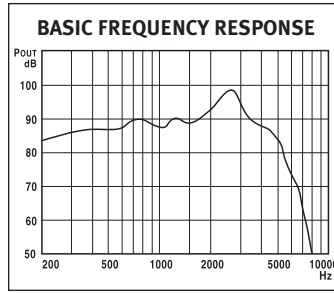
# CONVERSA.NT CUSTOM DIGITAL IEC 118-7 2CC COUPLER SPECIFICATIONS



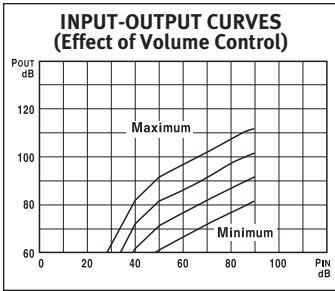
Input sound pressure level: 90 dB  
Volume control: full on



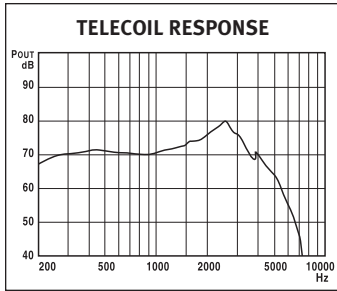
Input sound pressure level: 50 dB  
Volume control: full on



Input sound pressure level: 60 dB\*  
Volume control: RTG



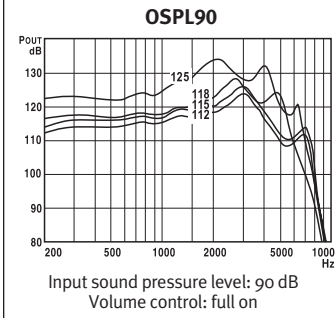
Input at 1600 Hz\*  
Volume control: as shown



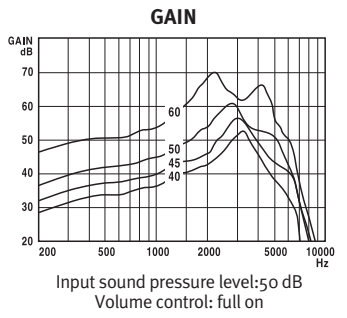
Input: 1 mA/m\*  
Volume control: full on

\*Note: The performance was measured based on the Conversa.NT full-shell (118/50).

## IEC 118-0 EAR SIMULATOR



Input sound pressure level: 90 dB  
Volume control: full on



Input sound pressure level: 50 dB  
Volume control: full on

### TEST CONDITIONS

RTG-IEC: Reference Test Gain of the Volume Control: 2.5  
BATTERY: 13 or 675 Zinc Air Premium  
SOURCE: Voltage 1.3 V  
Impedance 6 Ohms  
COUPLER: HA-1  
VENT: Closed at canal end  
Refer to: "Summary of Test Conditions and Limits" for more details.

**AID MARKING:** Conversa.NT

### COMPLIANCE

Our products are designed to meet all of the limits required when tested in accordance with the applicable standard.

### REFERENCES

IEC: International Electrotechnical Commission Publication 118-0, 118-7 (1983)  
European Standard EN 60118-0/A1 February, 1994

Caution: Hearing aids and batteries can be harmful if swallowed or improperly used. This product is manufactured under the protection of U.S. Patent #4349082 & #5204917.

We reserve the right to change specification data without notice as improvements are introduced.

