



## Conversa.NT Custom

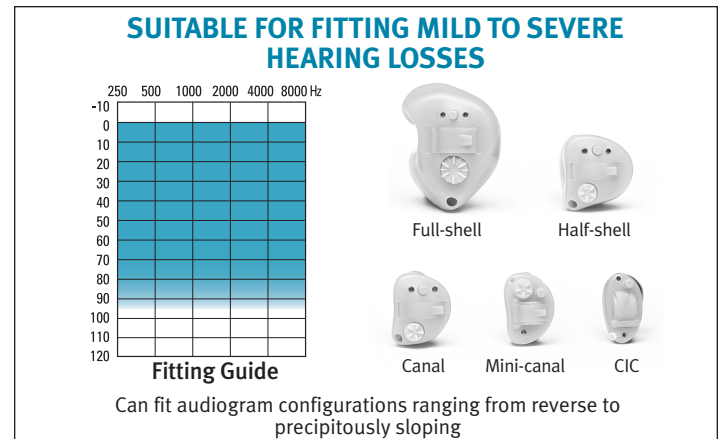
Speech Enhancement  
Adaptive Beamformer, Realtime Feedback Canceller

### 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

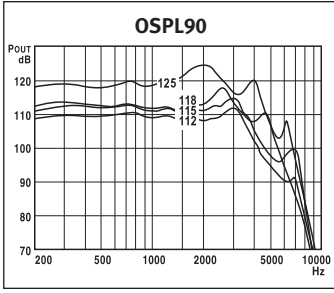
- Telecoil (T) or Microphone/Telecoil (MT) option can be set in any of the three programs. Available in canal to full-shell styles
- Easy t-coil for automatic telecoil operation
- Directional for canal to full-shell styles



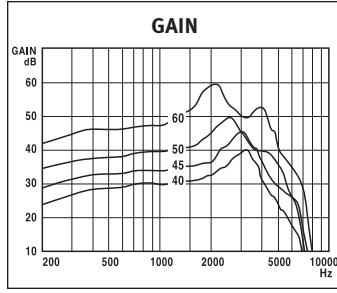
ANSI S3.22-1996 TECHNICAL DATA					
Styles	CIC	Mini-canal	Canal Half-shell	Full-shell	Full-shell Power
Frequency Range (Hz)	200-7500	200-7500	200-7500	200-7000	200-7000
Peak Gain	40 dB	45 dB	45 dB	50 dB	60 dB
Peak Output	112 dB	112 dB	115 dB	118 dB	125 dB
Reference Test Gain	32 dB	32 dB	35 dB	36 dB	43 dB
HF Average Gain	32 dB	36 dB	37 dB	43 dB	52 dB
HF Average OSPL <sub>90</sub>	109 dB	109 dB	112 dB	113 dB	120 dB
Typical Battery Life (Zinc Air Premium)	90 h	90 h	150 h	290/150 h	240 h
Current Drain at RTP	10A	10A	312	13/312	13
Telephone Magnetic Field Simulator	1.0 mA	1.0 mA	1.0 mA	1.0 mA	1.2 mA
HFA SPLITS	N/A	92 dB	92 dB	96 dB	103 dB
STS SPLITS		0 dB	-3 dB	0 dB	0 dB
Equivalent Input Noise at RTP	20 dB	19 dB	21 dB	20 dB	20 dB
Total Harmonic Distortion at RTP					
500 Hz typical	3%	5%	5%	5%	5%
800 Hz typical	1%	4%	4%	4%	7%
1600 Hz typical	1%	4%	4%	4%	4%
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"

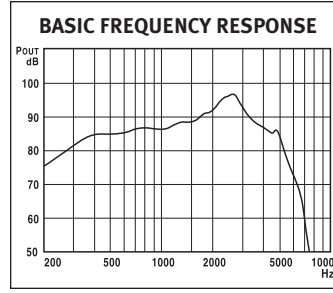
# CONVERSA.NT CUSTOM DIGITAL ANSI SPECIFICATIONS



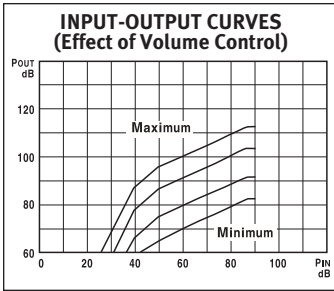
Input sound pressure level: 90 dB  
Volume control: full on



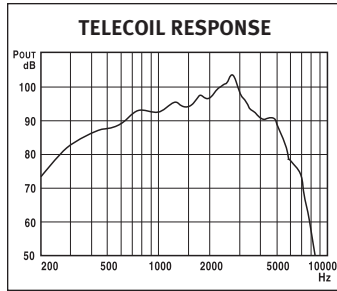
Input sound pressure level: 50 dB  
Volume control: full on



Input sound pressure level: 50 dB\*  
Volume control: RTP



Input at 2000 Hz\*  
Volume control: as shown



Input: 31.6 mA/m\*  
Volume control: RTP

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

## TEST CONDITIONS

RTP-ANSI: Reference Test Position of the Volume Control  
BATTERY: 13 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

ASA: Acoustical Society of America, ANSI S3.22-1996  
FDA: Food and Drug Administration, Part 801

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

This product is manufactured under the protection of U.S. Patent #4349082 & #5204917.

Caution: Hearing aids and batteries can be harmful if swallowed or improperly used.

