



Conversa.NT BTE Series

Speech Enhancement, Realtime Feedback Canceller
AutoMic, Adaptive Beamformer

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
- AutoMic automatically switches between omni directional and fixed directional based on the sound level in the listening environment
- 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 allow customization for different listening environments
- Telecoil (T) or Microphone/Telecoil (MT) option can be set in any of the three independent programs
- 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™
- On/Off feature through the battery door
- Start up mute
- Low battery warning
- Direct audio input - MLx compatible
- Battery size 13
- Conversa.NT can be programmed using NOAH-compatible Unifit software or standalone Unifit

OPTIONS

- WiFi Mic digital wireless CROS/BiCROS system
- Slim tube coupling for instant open fitting with Conversa.NT M
- Tamper-resistant volume control
- Tamper-resistant battery door
- Filtered earhook
- Choice of shell colors
- Direct audio input battery door unit



IEC 118-0 TECHNICAL DATA

	Conversa.NT M (no vc) slim tube optional	Conversa.NT M (no vc) unfiltered standard	Conversa.NT P (power)
Peak Gain	50 dB	61 dB	67 dB
Peak Output	123 dB	136 dB	140 dB
Reference Test Gain	38 dB	47 dB	49 dB
Full on Average Gain*	12 dB	54 dB	60 dB
Average Output*	93 dB	127 dB	133 dB
Frequency Range (Hz)	1200-6000	100-6100	100-6400
Reference Test Frequency	2.5 kHz	1.6 kHz	1.6 kHz
Full on Gain at RTF	48 dB	57 dB	61 dB
Output at RTF	120 dB	131 dB	125 dB
Typical Battery Life (Zinc Air Premium)	240 h	240 h	265 h
Current Drain at RTG	1.2 mA	1.2 mA	1.1 mA
Output with Inductive Input at 1.6 kHz, Quiet Mode Expansion "Off"	78 dB	87 dB	90 dB
Equivalent Input Noise at RTG	15 dB	15 dB	15 dB
Fast Time Constant			
Attack Time	< 40 ms	< 40 ms	< 40 ms
Release Time	100 ms	100 ms	100 ms
Slow Time Constant			
Attack Time	250 ms	250 ms	250 ms
Release Time	300 ms	300 ms	300 ms
Compression Ratio			
Wide Dynamic Range	4:1 to 1:1	4:1 to 1:1	4:1 to 1:1
Compression	20:1	20:1	20:1
Compression Limiting	20:1	20:1	20:1

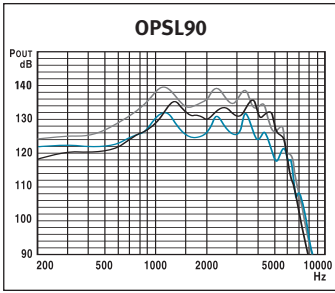
*Average of 500, 1000 and 1600 Hz

IEC 118-7 2CC COUPLER

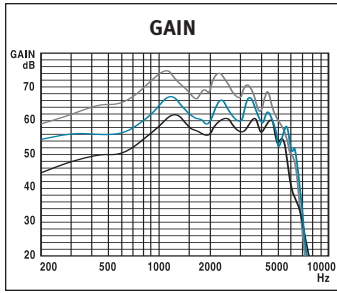
	38 dB	55 dB	60 dB	70 dB
Peak Gain	38 dB	55 dB	60 dB	70 dB
Peak Output	112 dB	130 dB	127 dB	135 dB
Reference Test Gain	27 dB	37 dB	40 dB	48 dB
Full on Gain at RTF	38 dB	47 dB	52 dB	60 dB
Output at RTF	109 dB	122 dB	116 dB	125 dB
Frequency Range (Hz)	1200-5800	100-5900	100-5800	100-5700

Note: Technical data generated with Quiet Mode Expansion "On"

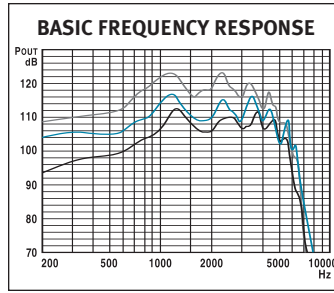
CONVERSA.NT BTE SERIES DIGITAL IEC 118-0 EAR SIMULATOR SPECIFICATIONS



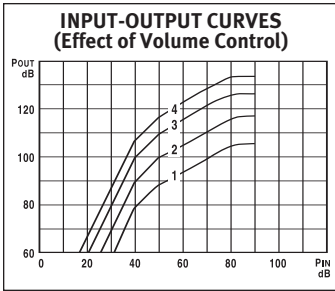
Input sound pressure level: 90 dB
Volume control: full on



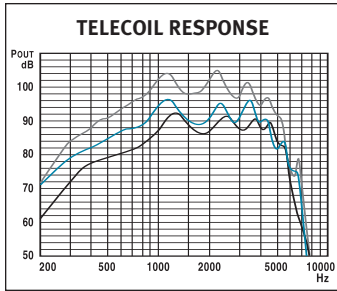
Input sound pressure level: 50 dB
Volume control: full on



Input sound pressure level: 60 dB
Volume control: RTG

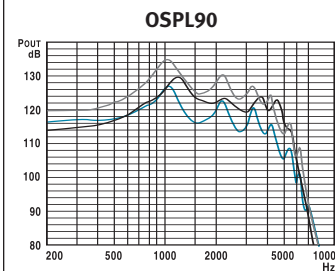


Conversa.NT P input at 1600 Hz
Volume control: as shown

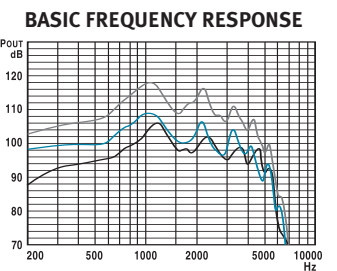


Input: 1 mA/m
Volume control: full on

IEC 118-7 2CC COUPLER



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



Input sound pressure level: 60 dB
Volume control: RTG

- Conversa.NT M
- Conversa.NT
- Conversa.NT P

TEST CONDITIONS

RTG-IEC: Reference Test Gain of the Volume Control: RTG
 BATTERY: 13 Zinc Air Premium
 SOURCE: Voltage 1.3 V
 Impedance 6 Ohms
 EARHOOK: Unfiltered
 TUBING: Length 25 mm,
 Inside Diameter 1.93 mm
 Refer to: "Summary of Test Conditions and Limits" for more details.

AID MARKING: Conversa.NT M
 Conversa.NT
 Conversa.NT P

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

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.

Sound pressure level of this hearing aid exceeds 132 dB SPL.

