



- ① Ergonomic earhook
- ② Microphones
- ③ Programs push button
- ④ Programming socket
- ⑤ Volume control
- ⑥ Battery compartment (Type 13)

DESCRIPTION

Behind-The-Ear air conduction digital hearing aid (BTE), with 8 WDRC Channels, Battery 13, programmable through fitting software.

INTENDED USE

The MICROSON M4 BTE hearing instrument is indicated to compensate mild to profound hearing loss (transmissive, mixed or neurosensorial). It is not suitable for children or mentally disabled people.

See Fitting Range⁽¹⁾

Features

- ✓ Matrix 138/68 @ 2cc
- ✓ 100% Digital Technology
- ✓ Digitally Programmable
- ✓ Automatic directional microphones
- ✓ 8 Independent WDRC Channels² **New!**
- ✓ 4 Memories
- ✓ 23 Bands Equalizer
- ✓ Automatic Environment Detection (iSD)
- ✓ Automatic Feedback Canceller (OPTIMIZER)
- ✓ Automatic Noise Reduction up to 9 dB_{SPL}
- ✓ Data Logging
- ✓ Nanocoating protection **New!**
- ✓ Auto-Telephone (M4 BTE AT Model)
- ✓ Digital Volume Control
- ✓ Battery compartment with ON/OFF function
- ✓ Memory Change Indicator
- ✓ Low Battery Indicator
- ✓ Small Size
- ✓ Suitable for Mobile Phones³
- ✓ Battery 13 Type PR48 (IEC 60086)

Requirements

- 89600, Fitting Software Microson CODA e-STUDIO 6 (6.5.2 or higher)
- 53781, Right Programming Cable
- 53832, Left Programming Cable
- 66183, NOAHLINK^A Programming Interface (Kernel v. 1.55.03)
- 73194, HI-PRO^B USB Hearing Instrument Programmer (Firmware 3.00 or higher)
- 88616, HI-PRO2^B Hearing Instrument Programmer (Firmware 4.00 or higher)

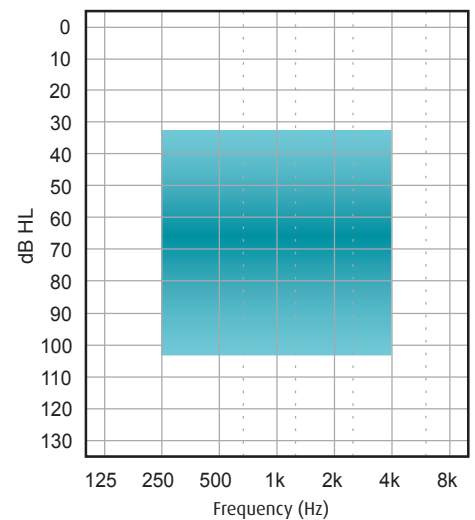
²Upgrading from 4 to 8 channels with Fitting Software Microson CODA e-STUDIO 6 (6.5.2 or higher) available for Rev.B products acquired since 2015/05/29.

³In compliance with IEC 60118-13:2011.

^(A)NOAH & NOAHLINK are licensed products and registered trademarks of HIMSA A/S in Denmark.

^(B)HI-PRO is a registered trademark of GN Otometrics A/S in Denmark.

Fitting Range⁽¹⁾



Measurements performed using a UPL 66 Audio Analyser (Rohde & Schwarz) Id 23564 test unit on March 2015 and are subject to changes without prior notice.

	Acoustic Data	IEC 60118-7:2005	IEC 60118-0:1993/ A1:1994
		ANSI / ASA S3.22-2009	
OUTPUT	OSPL ¹ 90 Peak (dB _{SPL})	138	141
	OSPL90 Peak Frequency (Hz)	1000	1100
	HFA ² -OSPL90 / RTF ³ -OSPL90 (dB _{SPL})	130	135
GAIN	HFA-FOG ⁴ (dB)	59	66
	RTF-FOG (dB)	56	64
	FOG (dB)	68	71
	FOG Frequency (Hz)	1100	2300
	RTG ⁵ (dB)	53	59
NOISE	Equivalent Input Noise (dB _{SPL})	10	13
AGC ⁶	Attack Time (ms)	1	3
	Release Time(ms)	6	5
TELECOIL	HFA-SPLI ⁷ / RTF-SPLI (dB _{SPL})	112	117
	HFA-FOG-MASL ⁸ / RTF-FOG-MASL @ 1 mA/m (dB _{SPL})	87	93
	500 Hz @ 100 mA/m (THD %)	4.3	3.2
	800 Hz @ 100 mA/m (THD %)	1.0	1.7
	1600 Hz @ 100 mA/m (THD %)	1.3	1.2
DISTORTION	500 Hz @ 70 dB _{SPL} (THD %)	2.8	4.5
	800 Hz @ 70 dB _{SPL} (THD %)	0.5	1.1
	1600 Hz @ 65 / 70 dB _{SPL} (THD %)	0.4	0.7
CONSUMPTION	Current Drain (mA)	1.10	0.82
FREQUENCY LIMITS	f ₁ (Hz)	<100	100*
	f ₂ (Hz)	6000	6200*

Power Source: 1.3V Battery Simulator

IEC 60318-5:2006	IEC 60318-4:2010

¹OSPL: Output Sound Pressure Level

²HFA: High Frequency Average

³RTF: Reference Test Frequency (1600 Hz)

⁴FOG: Full On Gain

⁵RTG: Reference Test Gain

⁶AGC: Automatic Gain Control

⁷SPLI: Sound Pressure Level Inductive

⁸MASL: Magneto Acoustical Sensitivity Level

* According to DIN 45605 standard

⚠ WARNING!

This hearing aid can generate sound output levels in excess of 132 dB_{SPL} (IEC 60318-4 Coupler). The hearing care specialist should be specially careful fitting the instrument as there may be risk of impairing the remaining hearing of the hearing instrument user.

Accesories & Spare Parts professional

- 79430 Windscreen BTE Dolphin Grey (10 pcs)
- 79431 Windscreen BTE Beige (10 pcs)
- 79432 Windscreen BTE Artic Grey (10 pcs)
- 82009 Earhook P13 M2 (5pcs)

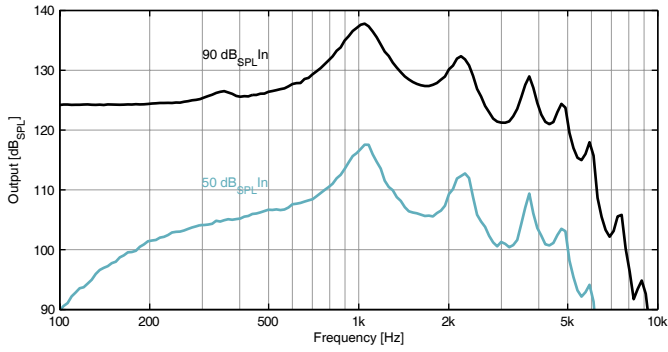
Accesories & Spare Parts for end user

- 76934 Auto-phone Magnet Kit
- 94583 6 Pack of Microson 13 hearing aid batteries M/Free (PR48)

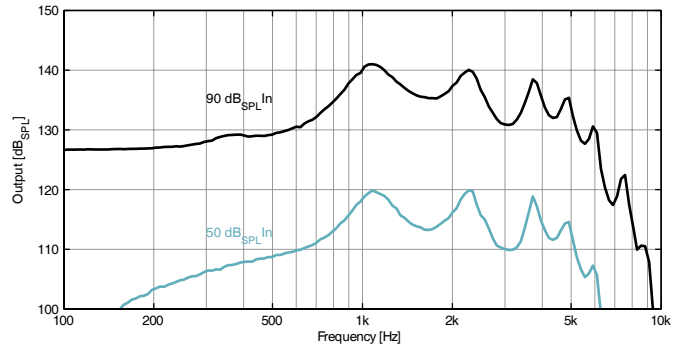
Supporting documents

- 91869 User Manual Microson M4 BTE LP2
- 91986 User Manual Microson M4 BTE LP3

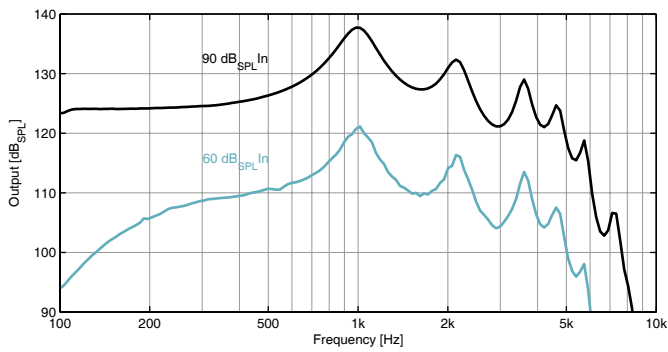
OSPL90 / OSPL50 @ FOG @ IEC 60118-7:2005



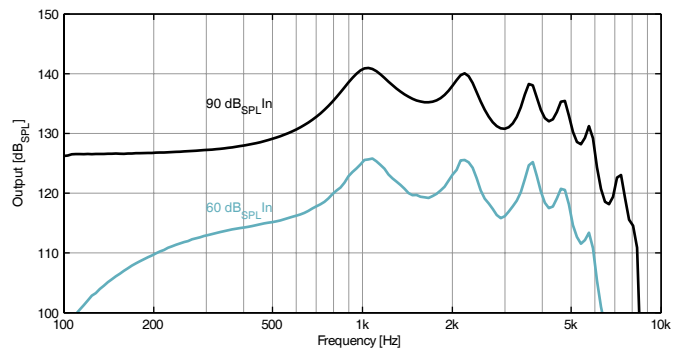
OSPL90 / OSPL50 @ FOG @ IEC 60118-0:1983/A1:1994



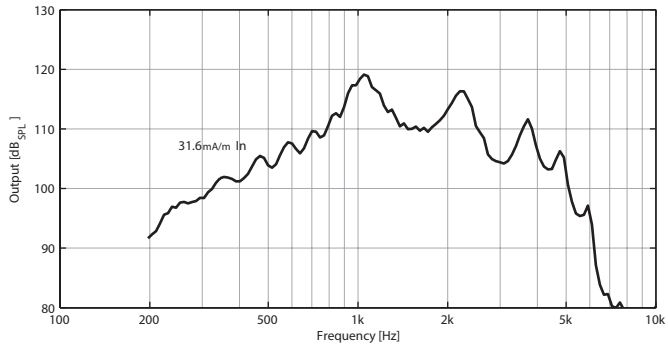
FREQUENCY RESPONSE @ RTS @ IEC 60118-7:2005



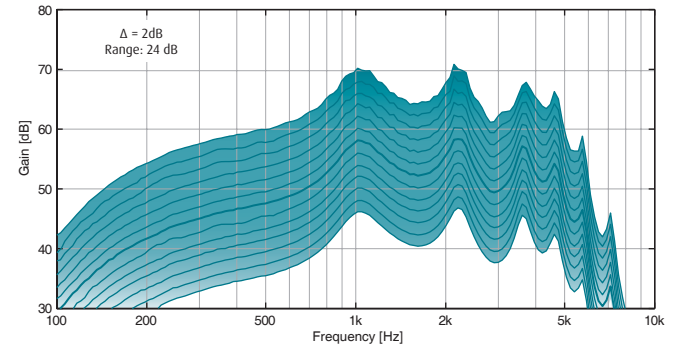
FREQUENCY RESPONSE @ RTS @ IEC 60118-0:1983/A1:1994



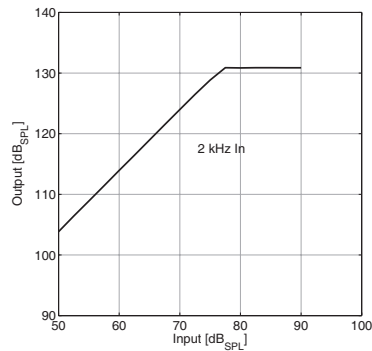
TELECOIL SENSITIVITY @ RTS @ IEC 60118-7:2005



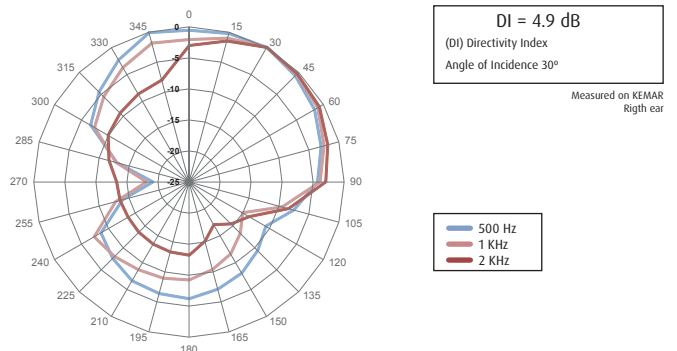
FREQUENCY RESPONSE @ VOL. CTRL. @ IEC 60118-0:1983/A1:1994



INPUT-OUTPUT @ RTS @ IEC 60118-7:2005



POLAR PLOT DIRECTIONAL MODE @ EN 60118-8:2005




Product Data

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HEARING INSTRUMENT CLASSIFICATION IN COMPLIANCE WITH IEC 60601-1 STANDARD

Medical Device Classification

Protection against electric shock	MEDICAL DEVICE WITH INTERNAL ELECTRICAL POWER SOURCE
	B Type Applied Part
	 This symbol indicates that this product adheres to the requirements established for an application component of type B in accordance with IEC 60601-2-66. The surface of the hearing aid is classified as an application component of type B.
Working Method	CONTINUED WORKING

Environmental conditions

	Temperature Min. (°C)	Temperature Max. (°C)	Relative Humidity Min (%)	Relative Humidity Max (%)
Recommended usage and storage	0	40	10	95

Power Supply Electrical Features

	M4 BTE
Nominal Operating Voltage	1.4 V
Current Type	Direct current DC
Nominal Current Leakage	0.82 mA
Battery Nomenclature (IEC 60086)	PR48

PRODUCT	REFERENCE	MODEL	GTIN-13
M4 BTE	75736	M4 BTE	8435281304912
	76183	M4 BTE DOLPHIN	8435281304950
M4 BTE AT	75735	M4 BTE AT BEIGE	8435281304905
	76181	M4 BTE AT DOLPHIN	8435281304936

GMDN Code: 34671