



DESCRIPTION

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

INTENDED USE

The Microson m2 BTE is indicated to compensate from moderate to severe hearing loss (transmissive, mixed or sensorineural). It is not suitable for children or mentally disabled people. See Fitting Range⁽¹⁾

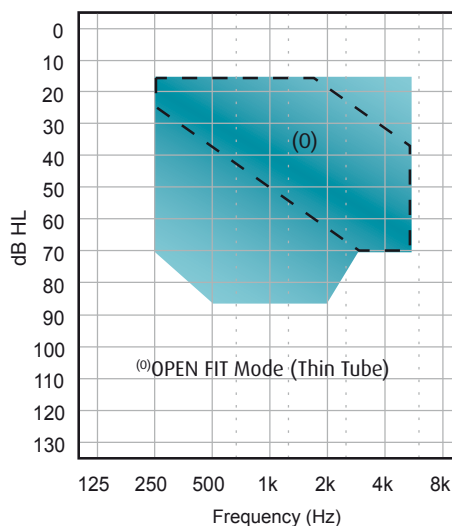
Features

- ✓ Matrix 131/58 @ 2cc (Standard Ear-Hook)
- ✓ Matrix 127/51 @ 2cc (Thin Tube)
- ✓ 100% Digital Technology
- ✓ Digitally Programmable
- ✓ Suitable for Open Fit and Standard applications **New!**
- ✓ 6 WDRC Independent Channels **New!**
- ✓ 12 Frequency Bands
- ✓ 6 MPO Control Channels
- ✓ Automatic Noise Reduction -12dB
- ✓ 4 programs
- ✓ Configurable digital control wheel⁽²⁾ **New!**
- ✓ Automatic Feedback Canceller
- ✓ Telecoil
- ✓ Autophone
- ✓ Power on Delay
- ✓ Low Battery Indicator
- ✓ Nanoproof Coating⁽³⁾
- ✓ Degree of Protection IP57⁽⁴⁾
- ✓ Suitable for mobile phones⁽⁵⁾
- ✓ Battery 13 Type - PR48 (EN 60086)
- ✓ Small size

Requirements

- 89600, Fitting Software Microson CODA e-STUDIO 6 (6.5.2 or higher)
- 53781, 4 Pin Hi-Pro Cable Right
- 53832, 4 Pin Hi-Pro Cable Left
- 79345, Battery 13 Flex Adapter
- 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-PRO^B2 Hearing Instrument Programmer (Firmware 4.00 or higher)

(1) Fitting Range



⁽²⁾ Volume Control (Factory Settings) or Program Switching (Settings using Fitting Software Microson CODA e-STUDIO 6.5.2 or higher)

⁽³⁾ Nanometric Coating protection against intrusion of particles

⁽⁴⁾ In compliance with IEC 60529

⁽⁵⁾ In compliance with IEC 60118-13 IEC 60118-13

^(A) NOAH & NOAHLINK son productos con licencia y marca registrada de HIMSA A/S en Dinamarca.

^(B) HI-PRO es una marca registrada por GN Otometrics A/S en Dinamarca.

	Acoustic Data	STANDARD EAR-HOOK		THIN TUBE	
		IEC 60118-7:2005	IEC 60118-0:1993/ A1:1994	IEC 60118-7:2005	IEC 60118-0:1993/ A1:1994
OUTPUT	OSPL ¹ 90 Peak (dB _{SPL})	131	136	127	130
	OSPL90 Peak Frequency (Hz)	1400	1500	700	700
	HFA ² -OSPL90 / RTF ³ -OSPL90 (dB _{SPL})	123	134	112	116
GAIN	HFA-FOG ⁴ (dB)	49	57	38	46
	RTF-FOG (dB)	50	59	33	42
	FOG (dB)	58	61	51	54
	FOG Frequency (Hz)	1400	1500	800	700
	RTG ⁵ (dB)	45	57	34	41
NOISE	Equivalent Input Noise (dB _{SPL})	21	19	27	35
AGC ⁶	Attack Time (ms)	1	1	1	5
	Release Time (ms)	8	6	11	477
TELECOIL	HFA-SPLI ⁷ / RTF-SPLI (dB _{SPL})	105	118	90	97
	HFA-FOG-MASL ⁸ / RTF-FOG-MASL @ 1 mA/m (dB _{SPL})	79	88	63	72
	500 Hz @ 56 mA/m (THD %)	2.1	4.4	3.9	6.1
	800 Hz @ 56 mA/m (THD %)	5.9	N/A	0.6	1.8
	1600 Hz @ 56 mA/m (THD %)	0.8	3.1	5.1	6.2
DISTORTION	500 Hz @ 70 dB _{SPL} (THD %)	1.5	3.6	0.3	0.6
	800 Hz @ 70 dB _{SPL} (THD %)	0.9	1.9	0.1	0.4
	1600 Hz @ 65 / 70 dB _{SPL} (THD %)	0.2	0.4	0.1	0.5
CONSUMPTION	Current Drain (mA)	0.9	0.88	0.94	0.87
FREQUENCY LIMITS	f ₁ (Hz)	<100	200*	<100	<100*
	f ₂ (Hz)	6500	6700*	6300	7600*

Power Source: 1.3V Battery Simulator

IEC 60318-5:2006	IEC 60318-4:2010	IEC 60318-5:2006	IEC 60318-4:2010
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Measurements with an undamped ear hook

*According to DIN 45605 standard

¹OSPL: Output Sound Pressure Level²HFA: High Frequency Average³RTF: Reference Test Frequency (1600 Hz)⁴FOG: Full On Gain⁵RTG: Reference Test Gain⁶AGC: Automatic Gain Control⁷SPLI: Sound Pressure Level Inductive⁸MASL: Magneto Acoustical Sensitivity Level**⚠ WARNING!**This hearing aid can generate sound output levels in excess of 132 dB_{SPL} (IEC 60318-4 Coupler).

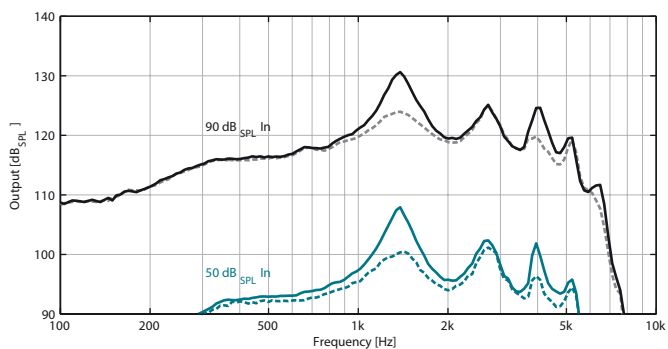
The hearing care specialist should be specially careful fitting the instrument as there may be risk of impairing the remaining hearing of the hearing instrument user.

Configurable parameters

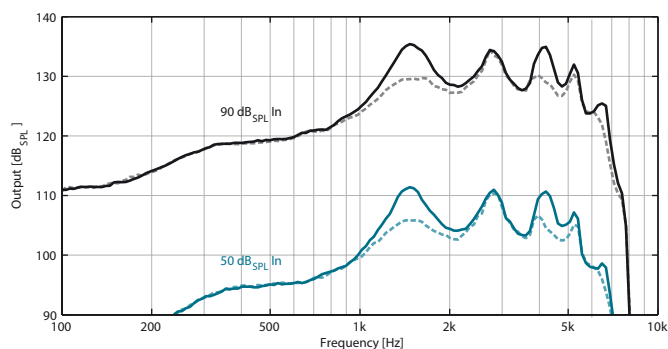
	Parameter	Minimum	Maximum	Step	Default Parameters	Units
WDRC CHANNELS 1 to 6	Low Level Gain	0	20	2	20	dB
	High Level Gain	0	26	2	26	dB
	Compression TK	45	69	2	55	dB _{SPL}
	Compression Ratio	1:1	5:1	-	1:1	-
MPO CHANNELS 1 to 6	Threshold Kneepoint	-16	OFF	2	OFF	dB
FEATURES	Volume Control	-20	0	2	0	dB
	Power On Delay	0	10	5	0	seconds
	Noise Reduction	OFF	12	6	OFF	dB
	Feedback Canceller	-	-	-	ON	-
	Memory Change Indicator	-	-	-	OFF	-
	Low-Battery Indicator	-	-	-	ON	-

Measurements with Standard Ear-Hook

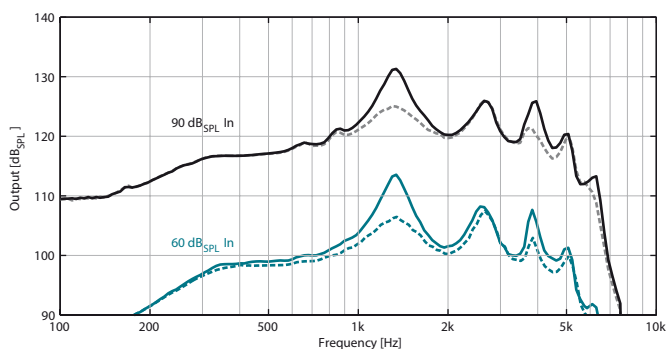
OSPL90 / OSPL50 @ FOG @ IEC 60118-7:2005



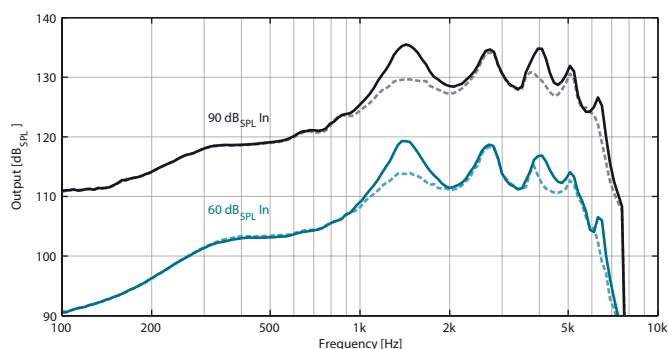
OSPL90 / OSPL50 @ FOG @ IEC 60118-0:1993/A1:1994



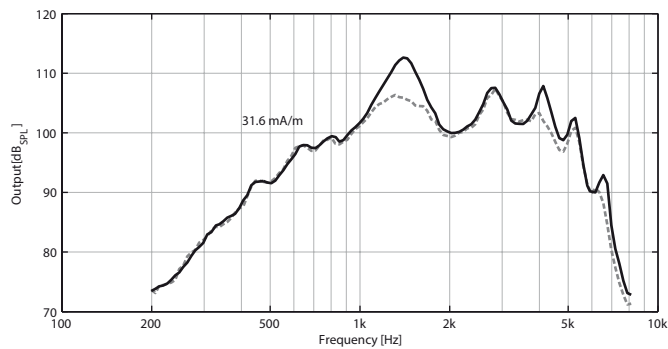
FREQUENCY RESPONSE @ RTS @ IEC 60118-7:2005



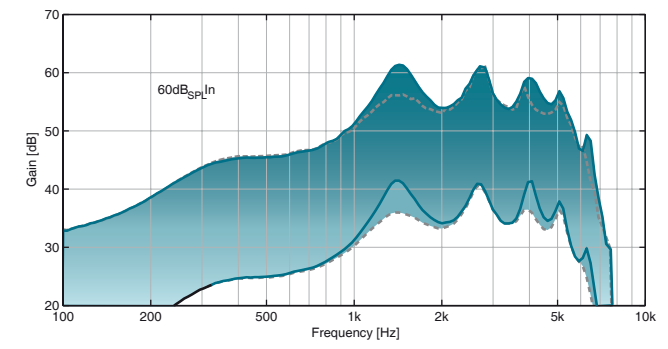
FREQUENCY RESPONSE @ RTS @ IEC 60118-0:1993/A1:1994



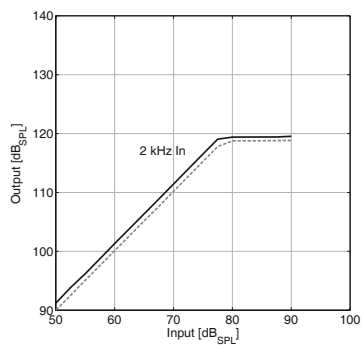
INDUCTION COIL SENSITIVITY @ RTS @ IEC 60118-7:2005



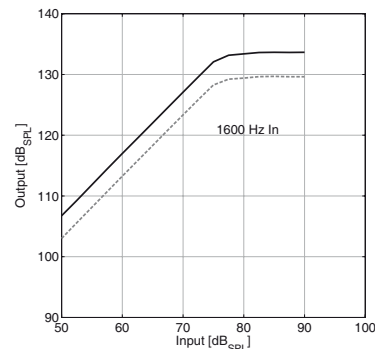
FREQUENCY RESPONSE @ VOLUME CONTROL @ IEC 60118-0:1993/A1:1994



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



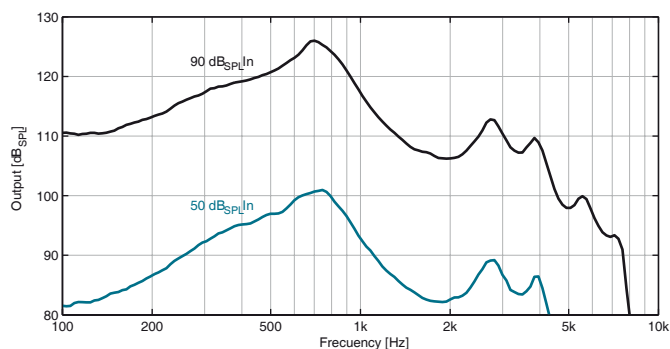
INPUT-OUTPUT @ RTS @ IEC 60118-0:1993/A1:1994



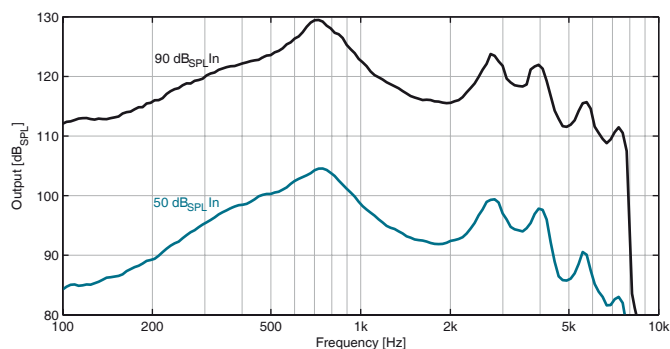
--- Damped Ear Hook

Measurements with Thin Tube

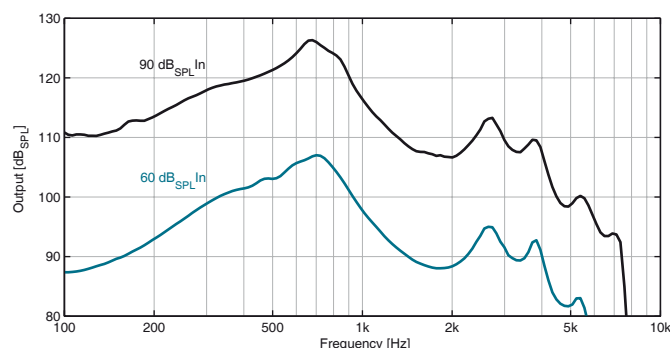
OSPL90 / OSPL50 @ FOG @ IEC 60118-7:2005



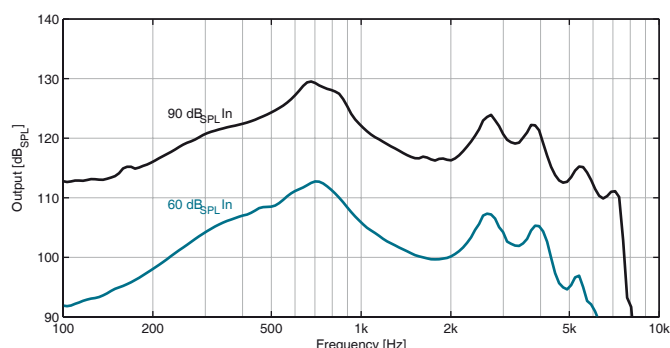
OSPL90 / OSPL50 @ FOG @ IEC 60118-0:1993/A1:1994



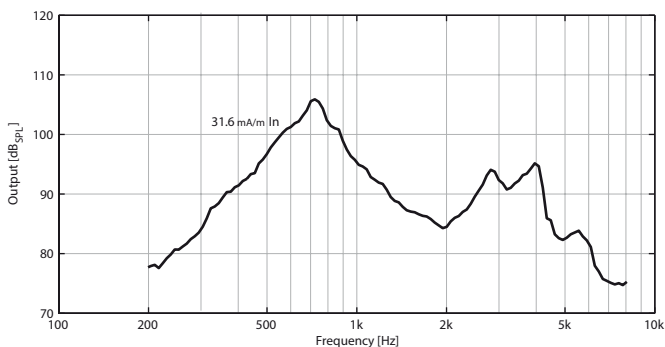
FREQUENCY RESPONSE @ RTS @ IEC 60118-7:2005



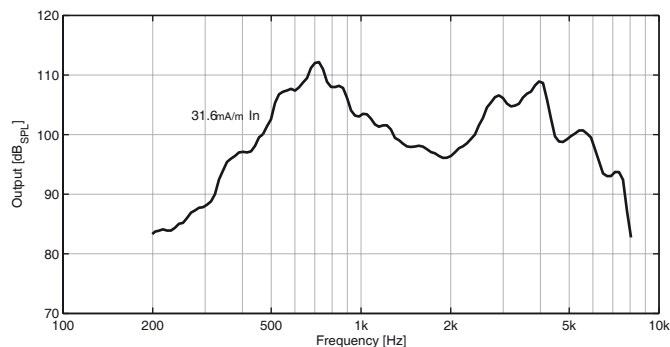
FREQUENCY RESPONSE @ RTS @ IEC 60118-0:1993/A1:1994



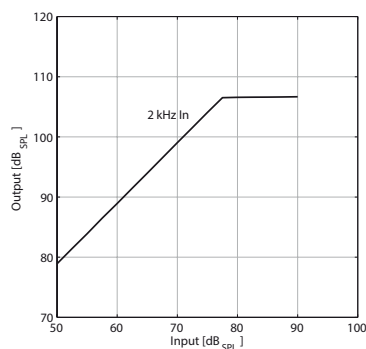
INDUCTION COIL SENSITIVITY @ RTS @ IEC 60118-7:2005



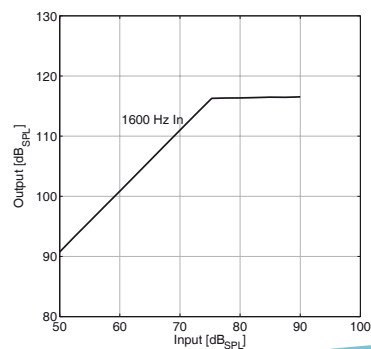
INDUCTION COIL SENSITIVITY @ RTS @ IEC 60118-0:1993/A1:1994



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



INPUT-OUTPUT @ RTS @ IEC 60118-0:1993/A1:1994



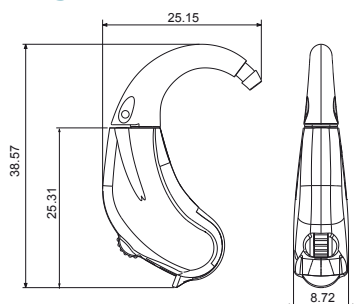
Accessories & Spare Parts for Professionals (Fitting)

- 89600 Fitting Software Microson CODA e-STUDIO 6 (6.5.2 or higher)
- 88616 HI-PRO USB Hearing Instrument Programmer (Firmware 4.00 or higher)
- 53781 Right Programming Cable
- 53832 Left Programming Cable
- 66183 NOAHLINK Programming Interface (Kernel v. 1.55.03)
- 73194 HI-PRO Hearing Instrument Programmer (Firmware 3.00 or higher)
- 79345 Battery 13 Flex Adapter
- 93769 Neodymium disc magnet
- 94349 P13 Ear Hook Soft rev2 (5pcs)
- 90556 Open Fit Tube Selector
- 91189 Open Fit Tip Semi Open
- 79430 Membrane Windscreen Bte Artic Grey (10Pcs)
- 79431 Membrane Windscreen Bte Beige (10Pcs)
- 79432 Membrane Windscreen Bte Artic Grey (10Pcs)
- 87304 Membrane Windscreen BTE Black (10Pcs)
- 82876 6 pack of Microson 13 hearing aid batteries (PR48)
- 91118 Brush Cleaner
- 83405 Open Fit Tube Fit N° 1 L
- 83418 Open Fit Tube Fit N° 1 R
- 83411 Open Fit Tube Fit N° 2 L
- 83406 Open Fit Tube Fit N° 2 R
- 83415 Open Fit Tube Fit N° 3 L
- 83410 Open Fit Tube Fit N° 3 R
- 83403 Open Fit Tube Fit N° 4 L
- 83416 Open Fit Tube Fit N° 4 R
- 83409 Open Fit Tube Fit N° 5 L
- 83404 Open Fit Tube Fit N° 5 R
- 83417 Open Fit Tube Fit N° 6 L
- 83421 Open Fit Tube Fit N° 6 R
- 83407 Open Fit Tip Open 6mm
- 83408 Open Fit Tip Double Closed 8-10 mm
- 83412 Open Fit Tip Closed 8mm
- 83413 Open Fit Tip Double Closed 10-12mm
- 83414 Open Fit Tip Open 4mm
- 83419 Open Fit Tip Open 8mm
- 83420 Open Fit Tip Open
- 102534 Side Identifier Label (L/R) (5 Pcs)

Accessories & Spare Parts for end user

- 91118, Brush Cleaner
- 94166, User Manual m2 BTE LP2 (ES/EN/IT/PT/FR)
- 93769, Neodymium disc magnet
- 94583, 6 pack of Microson 13 hearing aid batteries M/Free (PR48)
- 88192, Microson Microbox case

Weight & Dimensions



Weight* excluding battery: 2,31 gr.

Weight* including battery: 3,09 gr

Dimensions in millimeters (mm)

*Including Damped Ear Hook

HEARING INSTRUMENT CLASSIFICATION IN COMPLIANCE WITH IEC 60601-1 STANDARD

Medical Device Classification

Protection against electric shock	MEDICAL DEVICE WITH INTERNAL ELECTRICAL POWER SOURCE
	Type B 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.
Mode of operation	CONTINUOUS OPERATION

Environmental conditions

		Operation		Storage / Transport	
		Min.	Max.	Min.	Max.
	Temperature T (°C)	0	40	-20	60
	Relative humidity RH (%)	10	95	10	95
	Atmospheric pressure P (hPa)	500*	1100*	500*	1100*

* Avoid rapid pressure changes

Power Supply Electrical Features

	m2 BTE	
Nominal Operating Voltage	1.4 V	
Current Type	Direct current DC	
Nominal Current Leakage	Standard Ear-Hook	Thin Tube
Battery Nomenclature (IEC 60086)	0.88 mA	0.87 mA
Designación Pila (IEC 60086)	PR48	

PRODUCT	REFERENCE	MODEL	GTIN-13
m2 BTE	94115	MICROSON m2 BTE AT BEIGE	8435281312047
	94336	MICROSON m2 BTE AT ARTIC GREY	8435281312030
	94337	MICROSON m2 BTE AT DOLPHIN GREY	8435281312061
	94338	MICROSON m2 BTE AT BLACK	8435281312054

GMDN Code: 34671

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