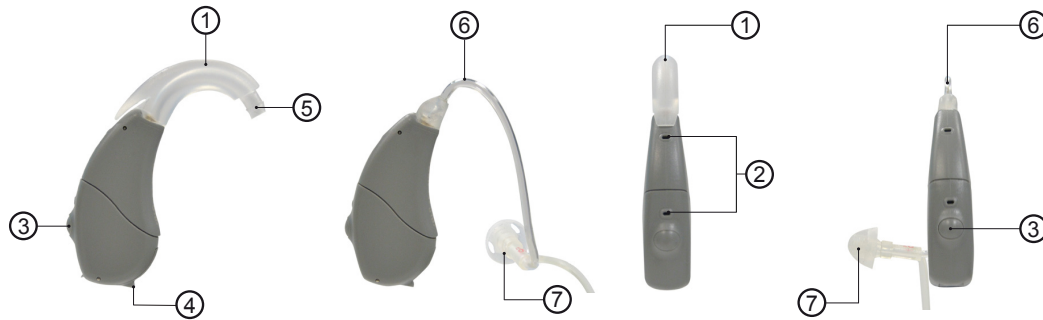


m4 mBTE-Open Fit

microson



1. Ergonomic Earhook
2. Microphones
3. Program Push Button
4. Battery Compartment (Type 312)
5. Acoustic Filter
6. Thin Tube
7. Dome or Adapter

Description

Behind-The-Ear air conduction digital hearing aid (BTE), Battery 312, programmable through fitting software.

Intended Use

The m4 mBTE-Open Fit hearing aid is intended to compensate for mild to severe (transmissive, mixed or sensorineural) hearing loss and acute loss with preserved low-frequencies (mixed or sensorineural). Its use is not intended for children or people with mental disabilities.

See Fitting Range ⁽¹⁾

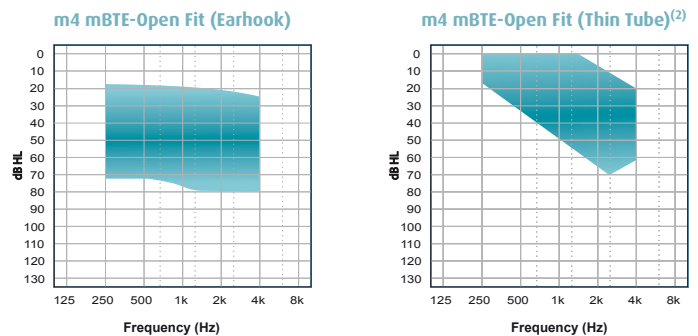
Features

- ✓ Matrix 131/58 @ 2cc (Standard Fitting)
- ✓ 100% Digital Technology
- ✓ Digitally Programmable
- ✓ Standard and Open Fitting
- ✓ Automatic Directional Microphones
- ✓ 8 independent WDRC Channels
- ✓ 16 Bands Equalizer
- ✓ 8 Maximum Output Control Channels (MPO)
- ✓ Automatic Noise Reductor (up to 17 dB)
- ✓ Wind Noise Suppressor
- ✓ Feedback Canceller Extreme
- ✓ 4 Memories
- ✓ Memory Auto-save
- ✓ Acoustic Tap
- ✓ Memory Change and Low Battery Indicator
- ✓ Noise Generator for Tinnitus Treatment (TRT)
- ✓ Datalogging
- ✓ Nanoproof Coating⁽³⁾
- ✓ Degree of Protection IP57⁽⁴⁾
- ✓ Suitable for Mobile Phones⁽⁵⁾
- ✓ Battery 312 Type PR41 (IEC 60086)
- ✓ Low Battery current drain
- ✓ Small Size

Requirements

- 89600, Fitting Software Microson CODA e-STUDIO 6 (6.6.0 or higher)
- 53781, CS63 Hi-Pro Cable Right
- 53832, CS63 Hi-Pro Cable Left
- 83968, Flex Adapter
- 73194, HI-PRO^A USB Programmer (Firmware 3.00 or higher)
- 88616, HI-PRO^A 2 Programmer (Firmware 4.00 or higher)
- 66183, NOAHLINK^B Programmer (Kernel v. 1.55.03)

⁽¹⁾ Fitting Range



Product Data

- (2) Open Fit
- (3) Nanometric Coating protection against intrusion of particles
- (4) In compliance with IEC 60529
- (5) In compliance with IEC 60118-13:2011

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

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

NOTE:

Insert Battery Type 312 Adapter for programming

DS-0036-002-EN
Rev. A.11 2018-03-01

m4 mBTE-Open Fit
1 of 6

	Acoustic Data	IEC 60118-7:2005		IEC 60118-0:1993/ A1:1994	
		EARHOOK	TUBE	EARHOOK	TUBE
OUTPUT	OSPL ¹ 90 Peak (dB _{SPL})	131	121	134	126
	OSPL90 Peak Frequency (Hz)	1700	900	1700	900
	HFA ² -OSPL90 / RTF ³ -OSPL90 (dB _{SPL})	118	112	129	116
GAIN	HFA-FOG ⁴ (dB)	47	41	53	49
	RTF-FOG (dB)	54	36	58	45
	FOG (dB)	58	49	63	54
	FOG Frequency (Hz)	1700	900	1800	900
	RTG ⁵ (dB)	42	35	54	41
NOISE	Equivalent Input Noise (dB _{SPL})	29	30	25	33
AGC ⁶	Attack Time (ms)	1	1	1	1
	Release Time (ms)	10	10	7	7
DISTORTION	500 Hz @ 70 dB _{SPL} (% THD)	5.6	1.6	7.5	3.1
	800 Hz @ 70 dB _{SPL} (% THD)	N/A	0.4	N/A	0.9
	1600Hz @ 65 / 70 dB _{SPL} (% THD)	0.2	0.6	1.0	1.7
CONSUMPTION	Current Drain (mA)	0.94	0.97	0.83	0.89
FREQUENCY LIMITS	f ₁ (Hz)	200	100	900*	100*
	f ₂ (Hz)	6500	5900	6300*	7200*
Power Source: 1.3 V Battery Simulator		IEC 60318-5:2006		IEC 60318-4:2010	

¹OSPL= Output Sound Preassure Level
²HFA= High Frequency Average

³RTF= Reference Test Frequency (1600 Hz)
⁴FOG= Full On Gain

⁵RTG= Reference Test Gain
⁶AGC= Automatic Gain Control

*According to DIN 45605 standard
 Measurements taken without filter

Configurable parameters

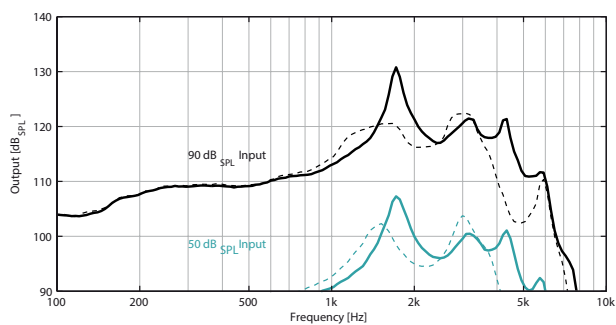
	Parameter	Minimum	Maximum	Step	Default Parameters	Units
WDRC CHANNELS 1 to 8	Channel Gain	0	20	2	20	dB
	Compression TK	32	70	2	60	dB _{SPL}
	Compression Ratio	1:1	5:1	-	1:1	-
MPO* CHANNELS 1 to 8	Threshold Kneepoint	-22	OFF	2	-4	dB
BANDS 1 to 16	Band Gain	0	20	2	20	dB
FEATURES	Power On Delay	OFF	15	5	5	seconds
	Noise Reduction	OFF	17	3/4	10	dB
	Feedback Canceller	OFF	Extreme	ON (intermediate option)	Extreme	-
	Memory Change Indicator	-	-	-	ON	-
	Low-Battery Indicator	-	-	-	ON	-

*Maximum Power Output

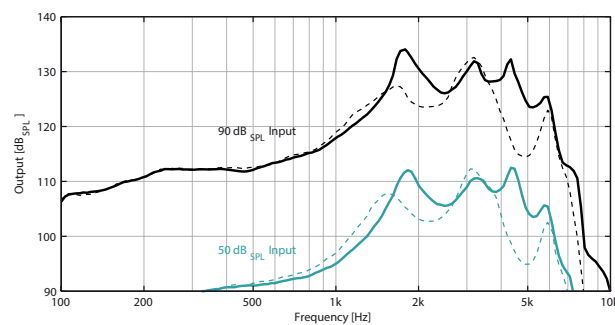
WARNING!

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.

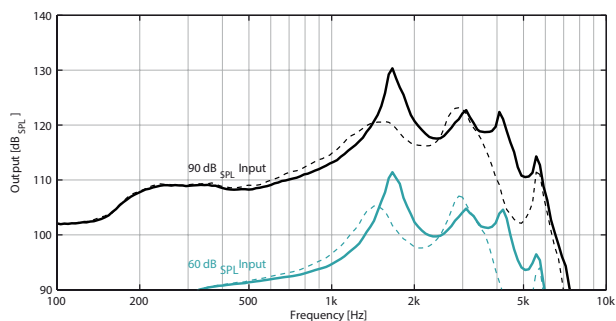
OSPL90 / OSPL50 @ FOG @ IEC 60118-7:2005



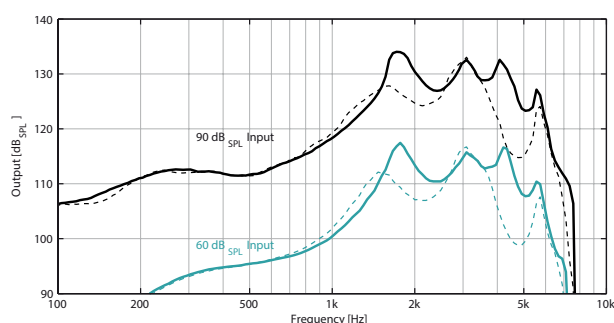
OSPL90 / OSPL50 @ FOG @ IEC 60118-0:1993/A1:1994



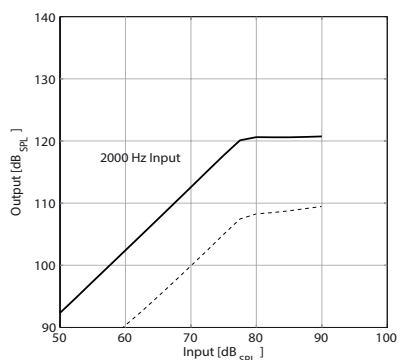
FREQUENCY RESPONSE @ RTS @ IEC 60118-7:2005



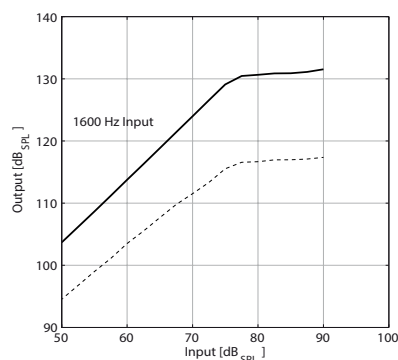
FREQUENCY RESPONSE @ RTS @ IEC 60118-0:1993/A1:1994



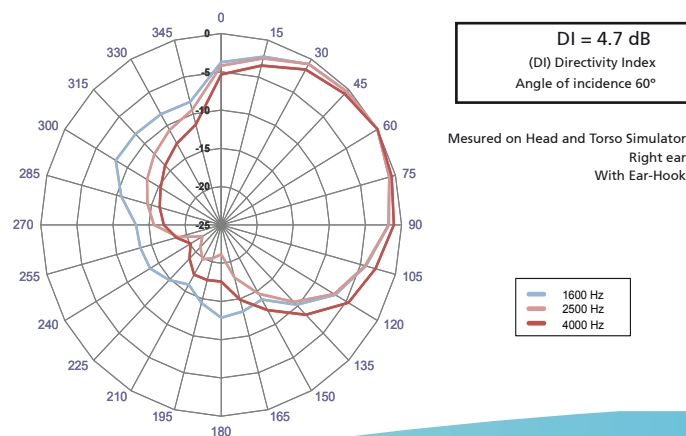
INPUT-OUTPUT @ RTS @ IEC 60118-7:2005



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



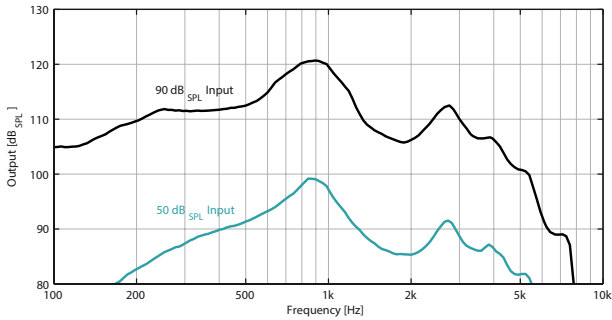
POLAR PLOT DIRECTIONAL MODE @ EN 60118-8:2005



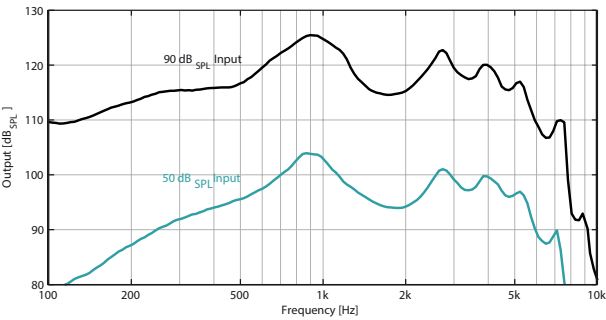
— Earhook
- - - Earhook with filter

THIN TUBE

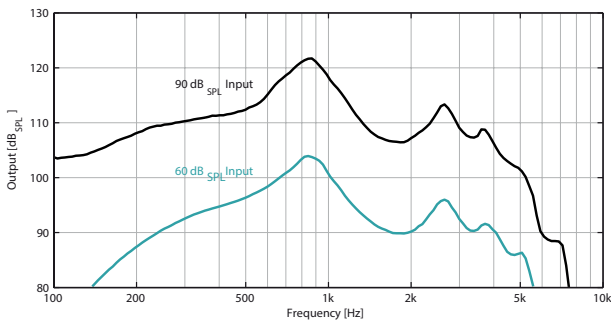
OSPL90 / OSPL50 @ FOG @ IEC 60118-7:2005



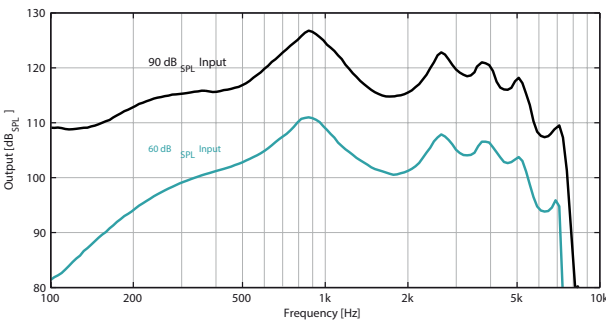
OSPL90 / OSPL50 @ FOG @ IEC 60118-0:1993/A1:1994



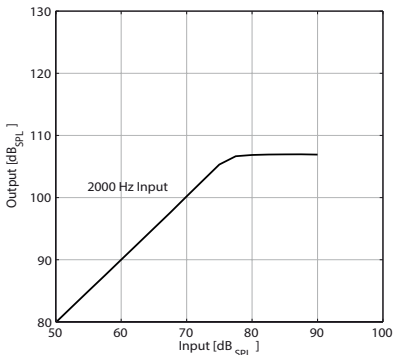
FREQUENCY RESPONSE @ RTS @ IEC 60118-7:2005



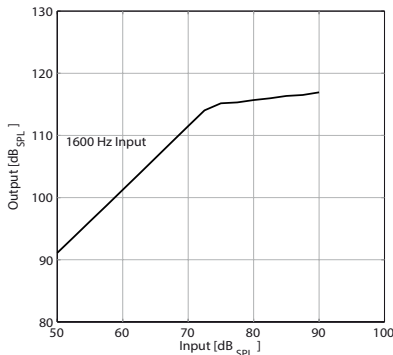
FREQUENCY RESPONSE @ RTS @ IEC 60118-0:1993/A1:1994



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



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



Product Data



HEARING INSTRUMENT CLASSIFICATION IN COMPLIANCE WITH EN 60601-1 STANDARD
Medical Device Clasification

Protection against electric shock	MEDICAL DEVICE WITH INTERNAL ELECTRICAL POWER SOURCE
	B Type Applied Part
	 This symbol indicates that the products described in these user instructions adhere to the requirements for an application part of Type B of IEC 60601-2-66. The surface of the hearing aid is specified as an applied part of Type B.
Working Method	CONTINUED WORKING

Power Supply Electrical Features

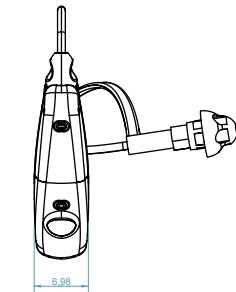
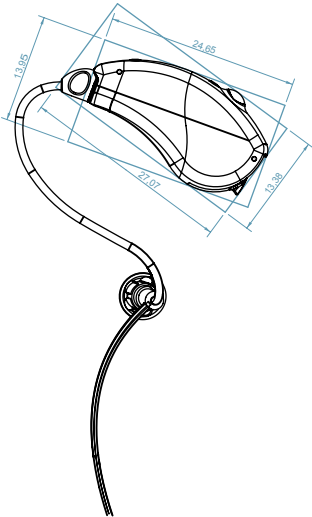
Nominal Operating Voltage	1.4 V	
Current Type	Direct current DC	
Nominal Current Leakage	Earhook	Thin Tube
	0.83 mA	0.89 mA
Battery Nomenclature (EN 60086)	PR41	

Environmental conditions

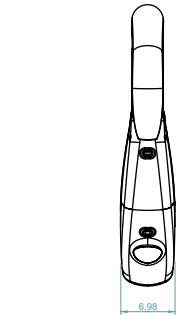
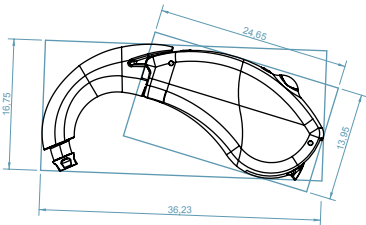
		Operation		Storage / Transport	
		Min.	Max.	Min.	Max.
	Temperature [T (°C)]	0	40	-20	60
	Relative humidity [RH (%)]	10	95	10	95
	Atmospheric pressure [P (hPA)]	500*	1100*	500*	1100*

*Avoid rapid pressure changes

Weight & Dimensions



Weight excluding battery: 1.5 gr
Weight including battery: 1.9 gr



Weight* excluding battery: 1.5 gr
Weight* including battery: 2.0 gr
Dimensions in millimeters (mm)

Product Data

DS-0036-002-EN
Rev. A.11 2018-03-01

Accessories & Spare Parts for Professionals

- 99873, my Open Fit axes set
- 99896, Battery compartment my Open Fit P312 Black (5 pcs)
- 99900, Battery compartment my Open Fit P312 Beige (5 pcs)
- 99874, Battery compartment my Open Fit P312 Grey (5 pcs)
- xxxxx*, Battery compartment my Open Fit P312 Silver (5 pcs)
- 94582, Microson 312 hearing aid batteries M/Free
- 90556, Open Fit Tube Selector
- 99872, P312 My Open Fit Earhook (5pcs)
- 99856, Microson Open Fit mBTE Tube N° 1 R (5 pcs)
- 99828, Microson Open Fit mBTE Tube N° 1 L (5 pcs)
- 99831, Microson Open Fit mBTE Tube N° 2 R (5 pcs)
- 99832, Microson Open Fit mBTE Tube N° 2 L (5 pcs)
- 99833, Microson Open Fit mBTE Tube N° 3 R (5 pcs)
- 99834, Microson Open Fit mBTE Tube N° 3 L (5 pcs)
- 99835, Microson Open Fit mBTE Tube N° 4 R (5 pcs)
- 99836, Microson Open Fit mBTE Tube N° 4 L (5 pcs)
- 99827, Microson Open Fit mBTE Adapter Open 5mm (10 pcs)
- 99837, Microson Open Fit mBTE Adapter Open 7mm (10 pcs)
- 99838, Microson Open Fit mBTE Adapter Open 10mm (10 pcs)

Accessories & Spare Parts for end user

- 99535, Microson Microbox ONE case
- 91118, Brush Cleaner
- 99467, Microson Wipe
- 94582, Microson 312 hearing aid batteries M/Free

Accompanying Documentation

- 99582, User's manual m2/m4 mBTE-Open Fit (ES, EN, PT, IT, FR, TR, RO, BG, EL, RU, PL, CS, DE)
- FG-0036-002-EN, m4 mBTE-Open Fit Programming guide

PRODUCT	REFERENCE	MODEL	GTIN-13
m4 mBTE-Open Fit	99659	MICROSON m4 mBTE-Open Fit Beige	8435281312764
	99680	MICROSON m4 mBTE-Open Fit Black	8435281312771
	99681	MICROSON m4 mBTE-Open Fit Grey	8435281312788
	99682*	MICROSON m4 mBTE-Open Fit Silver	8435281312757

GMDN Code: 34671

*Soon available