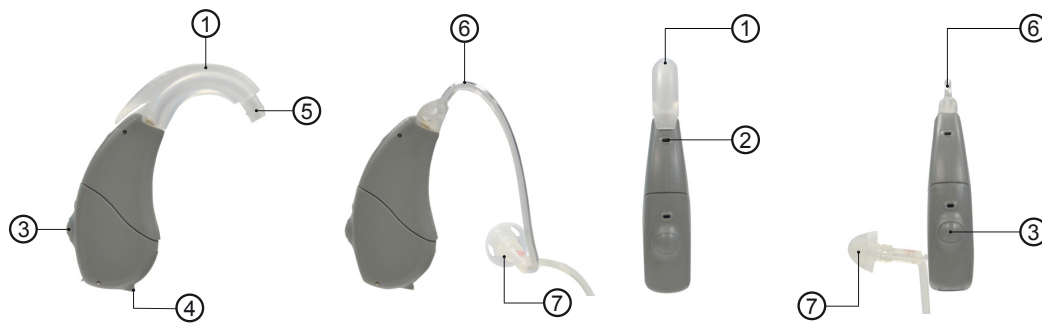




1. Ergonomic Earhook
2. Microphone
3. Program Push Button
4. Battery Door (Type 312)
5. Acoustic Filter
6. Thin Tube
7. Dome Or Adapter

## DESCRIPTION

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

## INTENDED USE

The m2 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 <sup>(1)</sup>

## Features

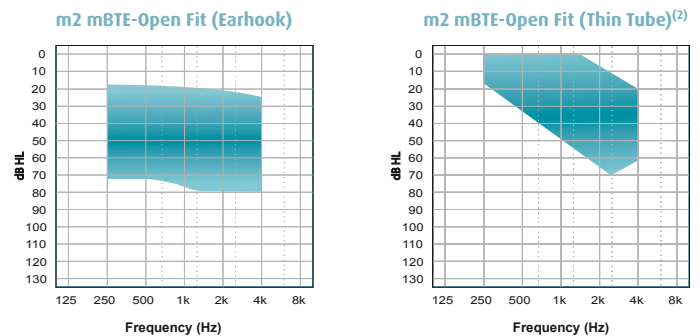
- ✓ Matrix 131/58 @ 2cc (Standard Fitting)
- ✓ 100% Digital Technology
- ✓ Digitally Programmable
- ✓ Standard & Open Fitting
- ✓ 6 independent WDRC Channels
- ✓ 16 Bands Equalizer
- ✓ 6 Maximum Output Control Channels (MPO)
- ✓ Automatic Noise Reduction (up to 13 dB)
- ✓ 4 Memories
- ✓ Feedback Canceller Extreme
- ✓ Memory Auto-save
- ✓ Memory Change and Low Battery Indicator
- ✓ Nanocoating protection<sup>(3)</sup>
- ✓ Degree of Protection IP57 (IEC 60529)
- ✓ Suitable for Mobile Phones<sup>(4)</sup>
- ✓ 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<sup>A</sup> USB Programmer (Firmware 3.00 or higher)
- 88616, HI-PRO<sup>A</sup> 2 Programmer (Firmware 4.00 or higher)
- 66183, NOAHLINK<sup>B</sup> Programmer (Kernel v. 1.55.03)

**NOTE:**  
Insert Battery Type 312 Adapter for programming

## <sup>(1)</sup> Fitting Range



Product Data

(2) Open Fit

(3) Nanometric Coating protection against intrusion of particles

(4) 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.

DS-0036-001-EN  
Rev. A.14 2018-03-01

m2 mBTE-Open Fit  
1 of 6

|                  | Acoustic Data                                                            | IEC 60118-7:2005 |      | IEC 60118-0:1993/ A1:1994 |       |
|------------------|--------------------------------------------------------------------------|------------------|------|---------------------------|-------|
|                  |                                                                          | EARHOOK          | TUBE | EARHOOK                   | TUBE  |
| OUTPUT           | OSPL <sup>1</sup> 90 Peak (dB <sub>SPL</sub> )                           | 131              | 121  | 134                       | 126   |
|                  | OSPL90 Peak Frequency (Hz)                                               | 1700             | 900  | 1700                      | 900   |
|                  | HFA <sup>2</sup> -OSPL90 / RTF <sup>3</sup> -OSPL90 (dB <sub>SPL</sub> ) | 118              | 112  | 129                       | 116   |
| GAIN             | HFA-FOG <sup>4</sup> (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 <sup>5</sup> (dB)                                                    | 42               | 35   | 54                        | 41    |
| NOISE            | Equivalent Input Noise (dB <sub>SPL</sub> )                              | 29               | 30   | 25                        | 33    |
| AGC <sup>6</sup> | Attack Time (ms)                                                         | 1                | 1    | 1                         | 1     |
|                  | Release Time (ms)                                                        | 10               | 10   | 7                         | 7     |
| DISTORTION       | 500 Hz @ 70 dB <sub>SPL</sub> (% THD)                                    | 5.6              | 1.6  | 7.5                       | 3.1   |
|                  | 800 Hz @ 70 dB <sub>SPL</sub> (% THD)                                    | N/A              | 0.4  | N/A                       | 0.9   |
|                  | 1600Hz @ 65 / 70 dB <sub>SPL</sub> (% THD)                               | 0.2              | 0.6  | 1.0                       | 1.7   |
| CONSUMPTION      | Current Drain (mA)                                                       | 0.94             | 0.97 | 0.83                      | 0.89  |
| FREQUENCY LIMITS | f <sub>1</sub> (Hz)                                                      | 200              | 100  | 900*                      | 100*  |
|                  | f <sub>2</sub> (Hz)                                                      | 6500             | 5900 | 6300*                     | 7200* |

Power Source: 1.3 V Battery Simulator

IEC 60318-5:2006

IEC 60318-4:2010

<sup>1</sup>OSPL= Output Sound Preasure Level

<sup>2</sup>HFA= High Frequency Average

<sup>3</sup>RTF= Reference Test Frequency (1600 Hz)

<sup>4</sup>FOG= Full On Gain

<sup>5</sup>RTG= Reference Test Gain

<sup>6</sup>AGC= Automatic Gain Control

\*According to DIN 45605 standard  
Measurements taken without filter

Configurable parameters

|                         | Parameter               | Minimum | Maximum | Step                     | Default Parameters | Units             |
|-------------------------|-------------------------|---------|---------|--------------------------|--------------------|-------------------|
| WDRC CHANNELS<br>1 to 6 | Channel Gain            | 0       | 20      | 2                        | 20                 | dB                |
|                         | Compression TK          | 32      | 70      | 2                        | 60                 | dB <sub>SPL</sub> |
|                         | Compression Ratio       | 1:1     | 5:1     | -                        | 1:1                | -                 |
| MPO* CHANNELS<br>1 to 6 | 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     | 13      | 3/4                      | 10                 | dB                |
|                         | Feedback Cancellor      | OFF     | Extreme | ON (intermediate option) | Extreme            | -                 |
|                         | Memory Change Indicator | -       | -       | -                        | ON                 | -                 |
|                         | Low-Battery Indicator   | -       | -       | -                        | ON                 | -                 |

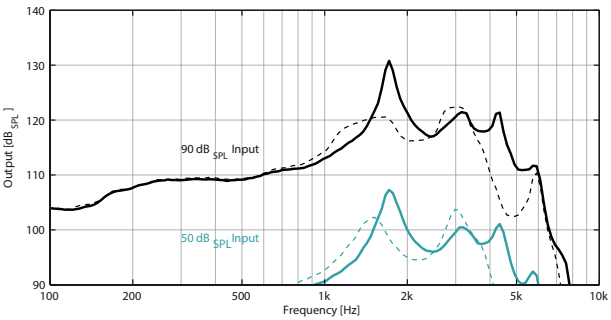
\*Maximum Power Output

 **WARNING!**

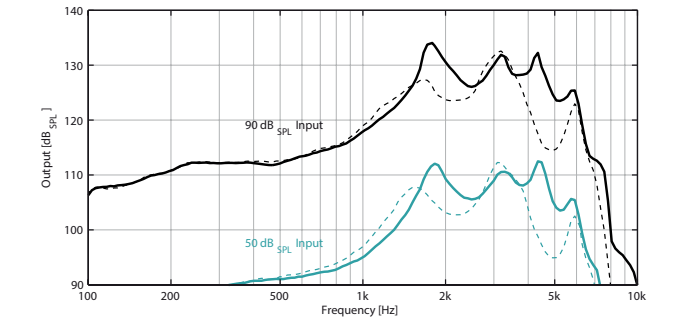
This hearing aid can generate sound output levels in excess of 132 dB<sub>SPL</sub> (IEC 60318-4 Coupler).  
The hearing care specialist should be specially careful when fitting the instrument as there may be risk of impairing the remaining hearing of the hearing instrument user.

EARHOOK

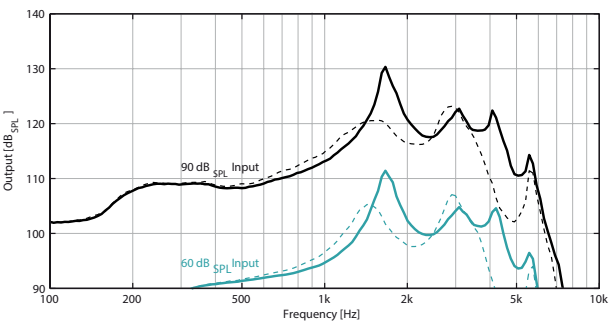
OSPL90 / OSPL50 @ FOG @ IEC 60118-7:2005



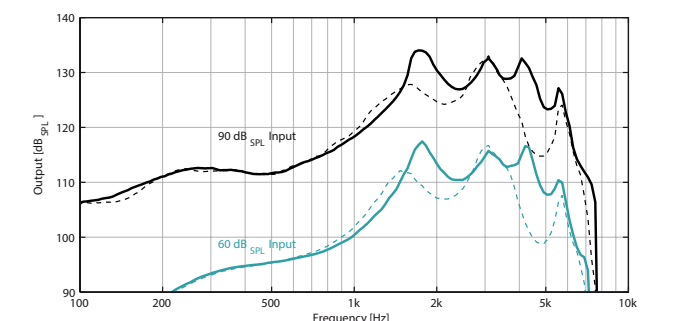
OSPL90 / OSPL50 @ FOG @ IEC 60118-0:1993/A1:1994



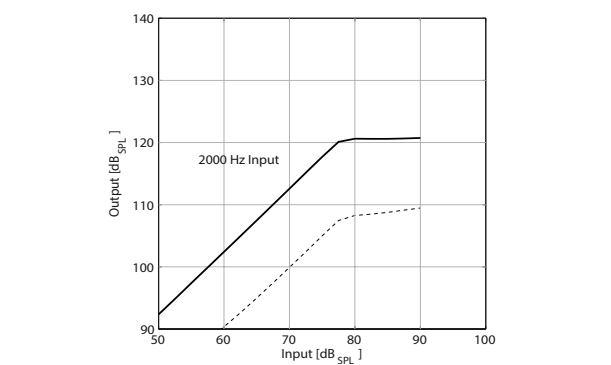
FREQUENCY RESPONSE @ RTS @ IEC 60118-7:2005



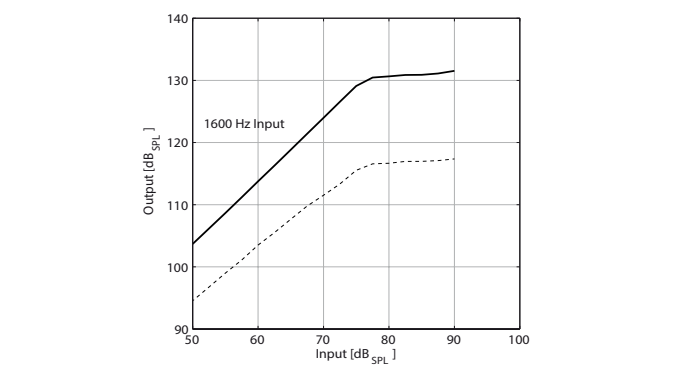
FREQUENCY RESPONSE @ RTS @ IEC 60118-0:1993/A1:1994



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



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

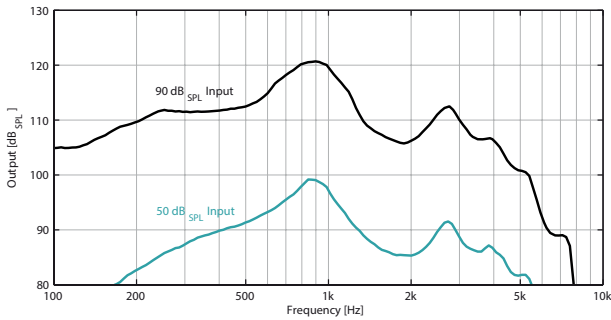


— Earhook  
- - - Earhook with filter

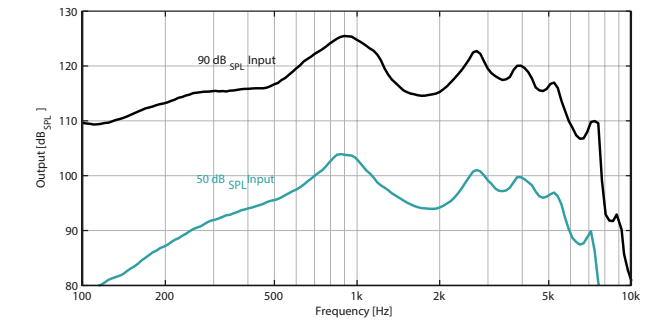
Product Data

THIN TUBE

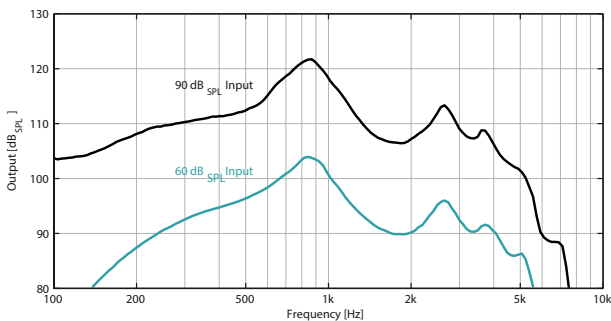
OSPL90 / OSPL50 @ FOG @ IEC 60118-7:2005



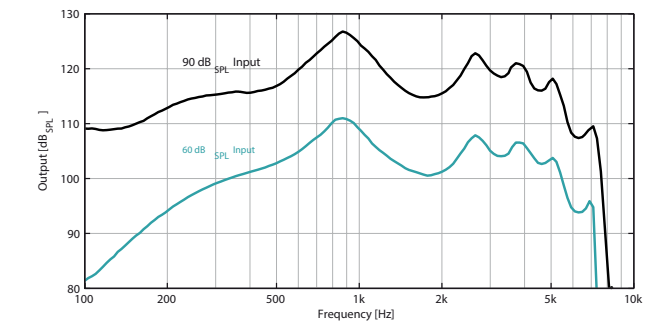
OSPL90 / OSPL50 @ FOG @ IEC 60118-0:1993/A1:1994



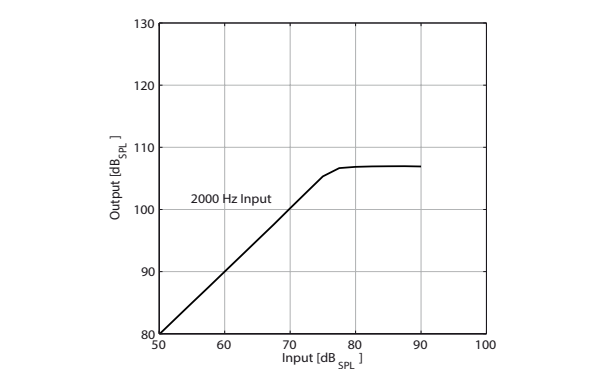
FREQUENCY RESPONSE @ RTS @ IEC 60118-7:2005



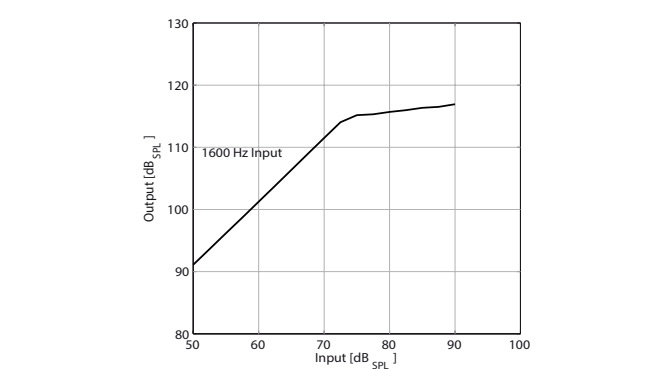
FREQUENCY RESPONSE @ RTS @ IEC 60118-0:1993/A1:1994



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                                                                                                                                                                                                                                                                                                         |
|                                   | <br>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

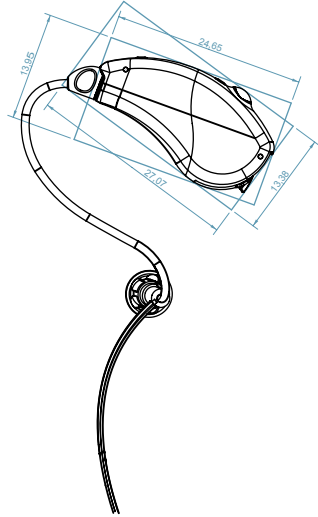
|                                 |                   |           |
|---------------------------------|-------------------|-----------|
| Nominal Operating Voltage       | 1.4 V             |           |
| Current Type                    | Direct current DC |           |
| Nominal Current Leakage   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

Environmental conditions

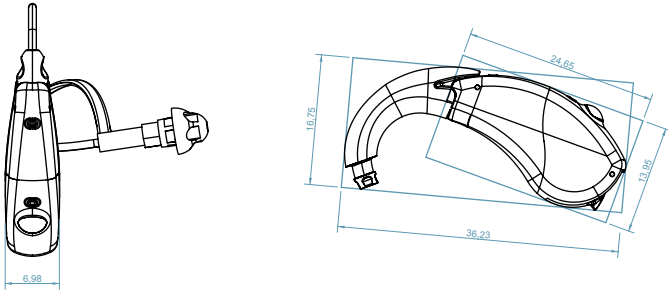
|                                                                                     |                                | Operation |       | Storage / Transport |       |
|-------------------------------------------------------------------------------------|--------------------------------|-----------|-------|---------------------|-------|
|                                                                                     |                                | 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  
\*Acoustic Filter included



Dimensions in millimeters (mm)

Product Data

Measurements performed using a UPL 66 (Rohde & Schwarz) Id 23564 test unit on July 2017 and are subject to changes without prior notice.

## Accessories & Spare Parts for Professionals

99873, my Open Fit axes set  
 94582, Microson 312 hearing aid batteries M/Free  
 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)  
 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)  
 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)  
 90556, Open Fit Tube Selector  
 99872, my Open Fit Earhook (5 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-0036-003-EN, m2 mBTE-Open Fit Programming guide

| PRODUCT          | REFERENCE | MODEL                           | GTIN-13       |
|------------------|-----------|---------------------------------|---------------|
| m2 mBTE-Open Fit | 99078     | MICROSON m2 mBTE-Open Fit Beige | 8435281312849 |
|                  | 99319     | MICROSON m2 mBTE-Open Fit Black | 8435281312740 |
|                  | 99688     | MICROSON m2 mBTE-Open Fit Grey  | 8435281312856 |

GMDN Code: 34671