

- ① Dome
- ② Receiver
- ③ Receiver socket
- ④ Microphone
- ⑤ Program Push Button
- ⑥ Battery compartment (Type 312)

## Description

Receiver In Canal (RIC) air conducting digital hearing aid, battery 312, programmable through fitting software.

## Intended Use

The MICROSON m2 mRIC ZERO hearing instrument is indicated to compensate mild to severe hearing loss (transmissive, mixed or sensorineural). It is not suitable for children or mentally disabled people. See fitting range<sup>1</sup>

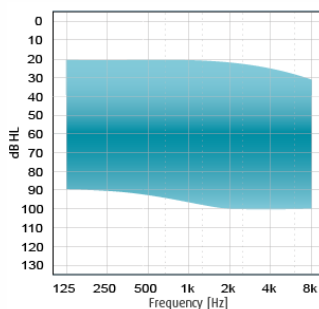
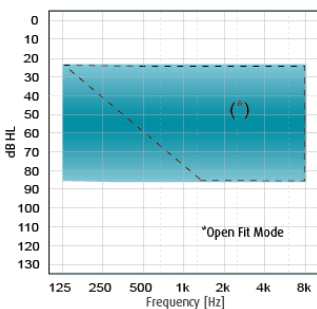
## Features

- ✓ Matrix 114/55 @ 2cc (M Receiver)
- ✓ Matrix 122/65 @ 2cc (P Receiver)
- ✓ Nanocoating protection<sup>2</sup>
- ✓ Degree of protection IP57 (IEC 60529)
- ✓ Low Battery Indicator
- ✓ Memory Change Indicator
- ✓ Suitable for mobile phones<sup>3</sup>
- ✓ Standard and Open Fit (M receiver)
- ✓ Battery type 312 - PR41 (IEC 60086)
- ✓ Upgradable firmware
- ✓ Compatible fitting formulae: GOFit, GOGAR, DSL I/O\*, NAL-NL2

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

M Receiver

P Receiver



## Functionalities

Functionalities	m2 mRIC ZERO
Bands	32
WDRC Channels	6 <sup>[4]</sup>
Maximum Power Output Channels (AGC-O)	6 <sup>[4]</sup>
Programs	4
Feedback Canceller	•
Feedback Management <b>ZERO</b>	•
Automatic Noise Reduction	•
Datalogging <sup>5</sup>	•

Product Data

<sup>2</sup> Nanometric coating protection against intrusion of particles.

<sup>3</sup> In compliance with IEC 60118-13:2011.

<sup>4</sup> Upgradable to 8 channels (October 2019).

<sup>5</sup> Offered upon availability of firmware version greater than 1.20.839 (May 2019). Hearing aid firmware can be found in the OPTIONS tab within CODA e-STUDIO fitting software.

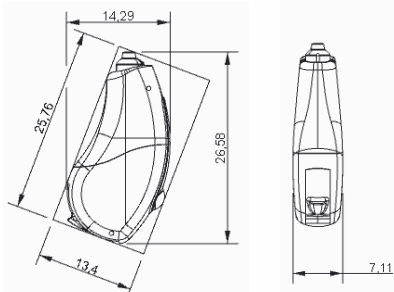
## Acoustic Data

		IEC 60118-7:2005 / IEC 60118-0:2015	
		M	P
OUTPUT	OSPL <sup>1</sup> 90 Peak (dB <sub>SPL</sub> )	114	122
	OSPL Peak Frequency (Hz)	3400	2600
	HFA <sup>2</sup> -OSPL90 (dB <sub>SPL</sub> )	107	120
GAIN	HFA-FOG <sup>3</sup> (dB)	49	61
	FOG (dB)	55	65
	FOG Frequency (Hz)	3400	2700
	RTG <sup>4</sup> (dB)	30	42
NOISE	Equivalent Input Noise (dB <sub>SPL</sub> )	13	11
AGC <sup>5</sup>	Attack Time (ms)	1	1
	Release Time (ms)	26	16
DISTORTION	500 Hz @ 70 dB <sub>SPL</sub> (% THD)	0.9	1.1
	800 Hz @ 70 dB <sub>SPL</sub> (% THD)	1.1	1.9
	1600 Hz @ 65 dB <sub>SPL</sub> (% THD)	0.7	0.4
CONSUMPTION	Current Drain (mA)	1.06	1.70
FREQUENCY LIMITS	f <sub>1</sub> (Hz)	100	<100
	f <sub>2</sub> (Hz)	6100	6800
Power Source: 1.3 V Battery Simulator Equivalent Input Noise measured with moderate expansion		IEC 60318-5:2006	

<sup>1</sup>OSPL= Output Sound Pressure Level  
<sup>2</sup>HFA= High Frequency Average  
<sup>3</sup>FOG = Full-On-Gain

<sup>4</sup>RTG = Reference Test Gain  
<sup>5</sup>AGC = Automatic Gain Control

## Weight & Dimensions



Weight excluding battery: 1.14 gr.  
 Weight including battery: 1.66 gr.

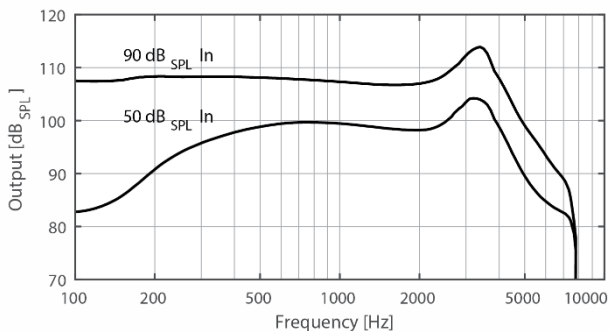
Dimensions in millimetres (mm)

### **⚠ WARNING!**

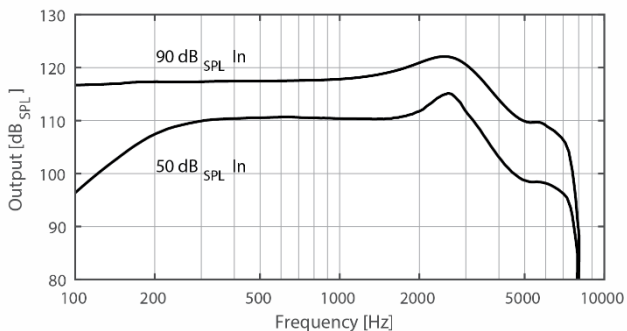
This hearing aid can generate sound output levels in excess of 132 dB<sub>SPL</sub> (IEC 60318-4 Coupler).  
 The hearing care specialist should be specially careful fitting the instrument as there may be risk of impairing the remaining hearing of the hearing aid user.

## OSPL90 / OSPL50 @ FOG @ IEC 60118-0:2015 / IEC 60118-7:2005

M receiver

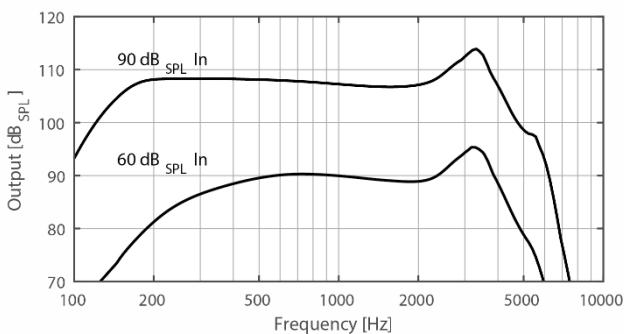


P receiver

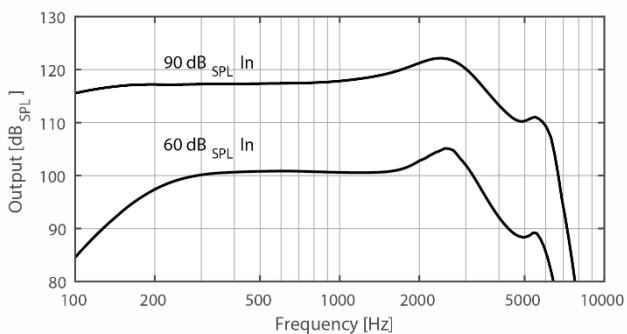


## FREQUENCY RESPONSE @ RTS @ IEC 60118-0:2015 / IEC 60118-7:2005

M receiver



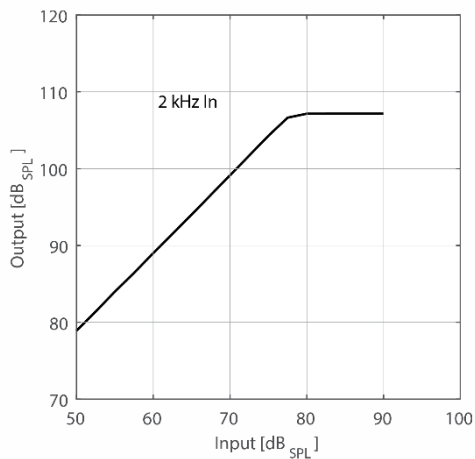
P receiver



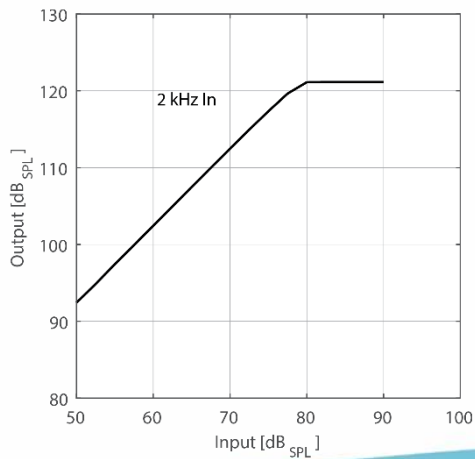
Product Data

## INPUT-OUTPUT @ RTS @ IEC 60118-0:2015 / IEC 60118-7:2005

M receiver



P receiver




DS-0021-002-EN  
Rev. A 2019-03-20

# m2 mRIC ZERO

Measurements were performed on January 2019 and are subject to changes without prior notices

## HEARING INSTRUMENT CLASSIFICATION IN COMPLIANCE WITH EN 60601-1

### Medical Device Classification

Protection against electric shock	MEDICAL DEVICE WITH INTERNAL ELECTRICAL POWER SOURCE
	B Type Applied Part
	 <p>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.</p>
Working Method	CONTINUED WORKING

### Power Supply Electrical Features

	M receiver	P receiver
Nominal Operating Voltage	1.4 V	
Current Type	Direct current DC	
Nominal Current Leakage	1.06 mA	1.70 mA
Battery Nomenclature (EN 60086)	PR41	

Product Data

### Accessories & Spare Parts

See list available in *Order Form* OF-0021-06.

#### RIC Easyplug Receivers

M Receiver		P Receiver	
103768	0L	103762	0L
103767	0R	103761	0R
103766	1L	103760	1L
103765	1R	103759	1R
103764	2L	103749	2L
103763	2R	102979	2R

0,1,2: tube length  
L,R: side

#### RIC Easyplug Adapters

Ref.	Type	Model
104488	Open 5mm	
104489	Open 7mm	
104487	Open 10mm	
104490	Tulip 12mm (semiopen)	
104491	Power S 11mm (closed)	
104492	Power M 13mm (closed)	
104457	Power L 14mm (closed)	

DS-0021-002-EN  
Rev. A 2019-03-20

## Requeriments

89600 Fitting Software Microson CODA e-STUDIO (6.9.0 or higher)

53781/53782 Cable CS63 HI-PRO Right / Left

83968 Adaptador Flex Battery 312

NOAHLINK<sup>A</sup> Programmer (Kernel v. 1.55.03)

HI-PRO<sup>B</sup> USB Programmer (Firmware 3.00 o superior)

HI-PRO<sup>B</sup> 2 Programmer (Firmware 4.00 o superior)

(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.

## 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 atmospheric pressure changes

PRODUCT	REFERENCE	MODEL
m2 mRIC ZERO <sup>1</sup>	102079	MICROSON m2 mRIC ZERO Beige
	102086	MICROSON m2 mRIC ZERO Dolphin Gray

GMDN Code: 47169

<sup>1</sup> See models available in *Order Form* OF-0021-06

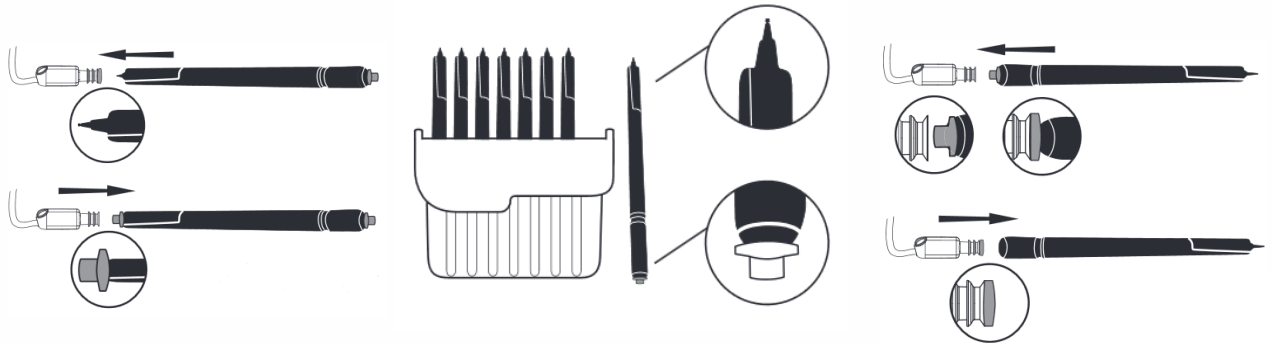


### WARNING!

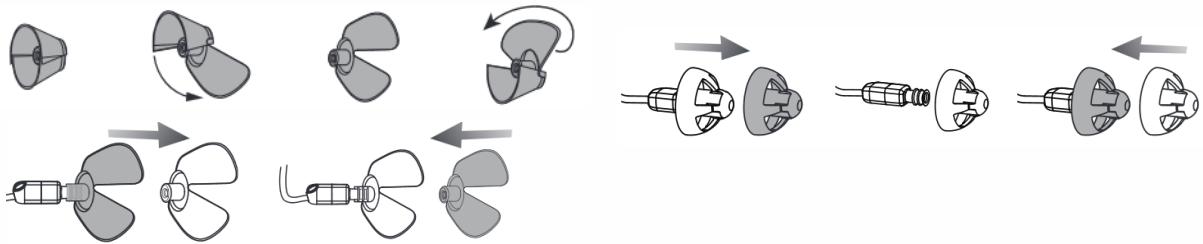
Any modification of the product must be carried out by a Technical Service authorised by the manufacturer.

## Basic Instructions for Professionals\*

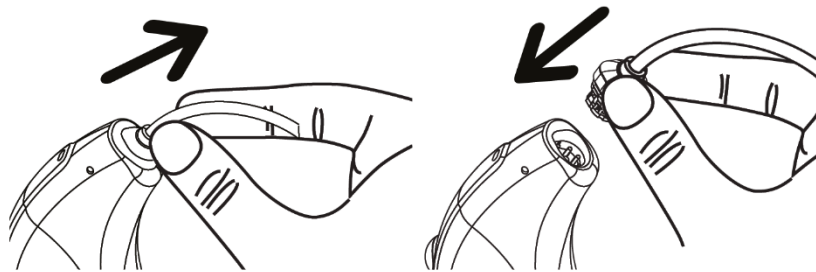
### Change of wax filter



### Change of dome



### Change of EasyPlug Receiver



\*For further guidance check the Instructions for Use (ref. 104461)