

Description

Completely-in-the-canal hearing aid (CIC), Battery type 10 and programmable through fitting software.

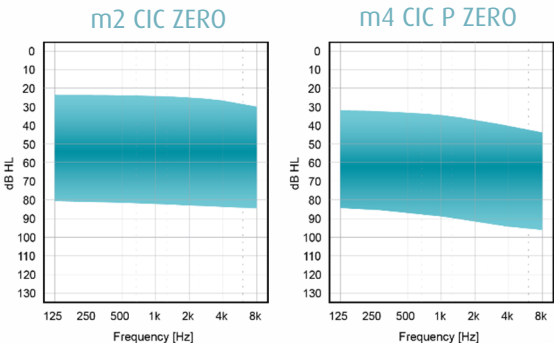
Intended Use

MICROSON m2 CIC ZERO hearing instrument is indicated to compensate mild to moderate hearing loss (mixed or sensorineural) and MICROSON m4 CIC P ZERO hearing instrument is indicated to compensate moderate to severe hearing loss (mixed or sensorineural). It is not suitable for children or mentally disabled people. See fitting range¹

Characteristics

- ✓ Matrix 115/36 @ 2cc (m2 CIC ZERO)
- ✓ Matrix 120/46 @ 2cc (m4 CIC P ZERO)
- ✓ Nanocoating protection⁴
- ✓ Low Battery Indicator
- ✓ Memory Change Indicator³
- ✓ Suitable for mobile phones³
- ✓ Battery type 10 – PR70 (IEC 60086)
- ✓ Upgradable firmware
- ✓ Compatible fitting formulae: GOFit, GOGAR, DSL I/O*, NAL-NL2

1 Fitting Range



Features

	m2 CIC ZERO	m4 CIC P ZERO
WDRC Channels	6 ^[2]	8 ^[2]
Bands	32	32
Maximum Power Output Channels (AGC-O)	6 ^[2]	8 ^[2]
Programs		4 ^[3]
Feedback Celler	•	•
Feedback Management ZERO	•	•
Automatic Noise Reduction	•	•
Automatic Environment Detection		•
Datalogging ⁶	•	•

Product Data

² Upgradable to 8 and 16 channels (m2 and m4 respectively) in October 2019.
³ Program Push Button available only in m4 CIC P ZERO.
⁴ Nanometric coating protection against intrusion of particles.
⁵ In compliance with IEC 60118-13:2011.
⁶ 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	
		m2 CIC ZERO	m4 CIC P ZERO
OUTPUT	OSPL ¹ 90 Peak (dB _{SPL})	115	120
	OSPL Peak Frequency (Hz)	2700	3000
	HFA ² -OSPL90 (dB _{SPL})	113	115
GAIN	HFA-FOG ³ (dB)	31	38
	FOG (dB)	36	46
	FOG Frequency (Hz)	2900	3200
	RTG ⁴ (dB)	31	37
NOISE	Equivalent Input Noise (dB _{SPL})	25	24
AGC ⁵	Attack Time (ms)	2	2
	Release Time (ms)	5	5
DISTORTION	500 Hz @ 70 dB _{SPL} (% THD)	0.4	0.8
	800 Hz @ 70 dB _{SPL} (% THD)	0.4	2.0
	1600 Hz @ 65 dB _{SPL} (% THD)	0.3	2.6
CONSUMPTION	Current Drain (mA)	0.87	1.17
FREQUENCY LIMITS	f ₁ (Hz)	<100	<100
	f ₂ (Hz)	7100	6900
Power Source: 1.3 V Battery Simulator Equivalent Input Noise measured with moderate expansion		IEC 60318-5:2006	

¹OSPL= Output Sound Pressure Level ⁴RTG = Reference Test Gain
²HFA= High Frequency Average ⁵AGC = Automatic Gain Control
³FOG = Full-On-Gain

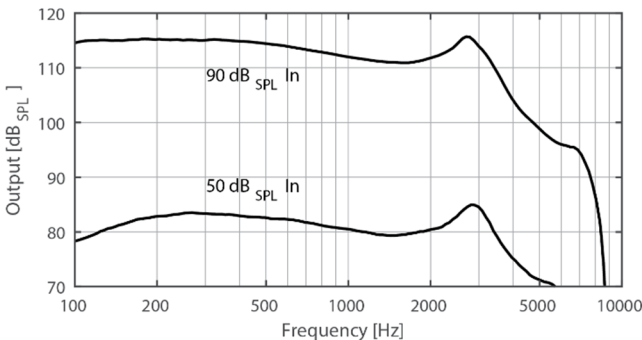


WARNING!

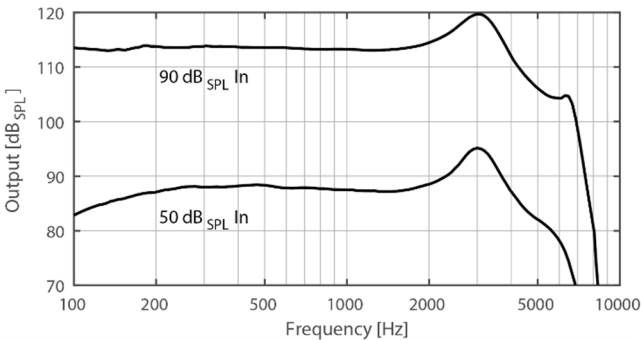
This hearing aid can generate sound output levels in excess of 132 dB_{SPL} (IEC 60318-4 Coupler).
The hearing care specialist should be specially careful fitting the instrument as there may be risk of
impairing the remaining hearing of the hearing aid user.

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

m2 CIC ZERO

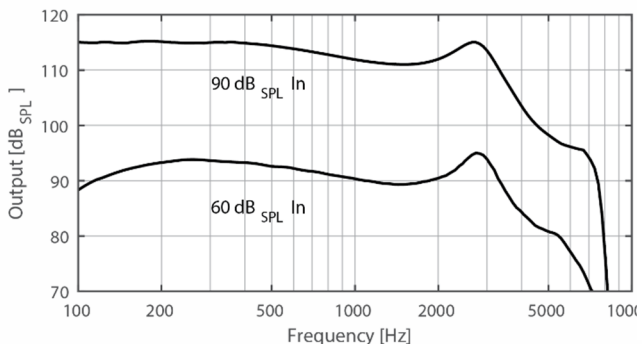


m4 CIC P ZERO

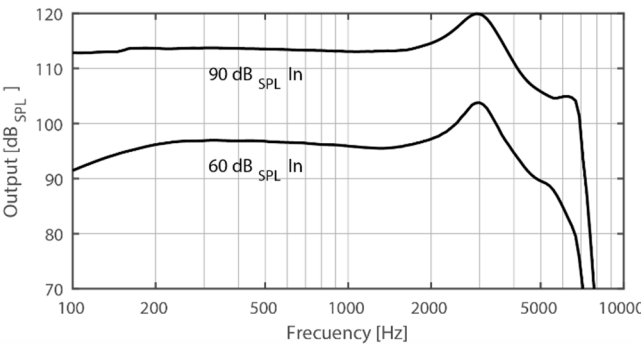


FREQUENCY RESPONSE @ RTS @ IEC 60118-0:2015 / IEC 60118-7:2005

m2 CIC ZERO



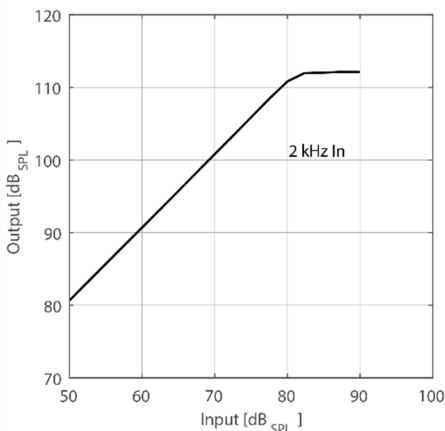
m4 CIC P ZERO



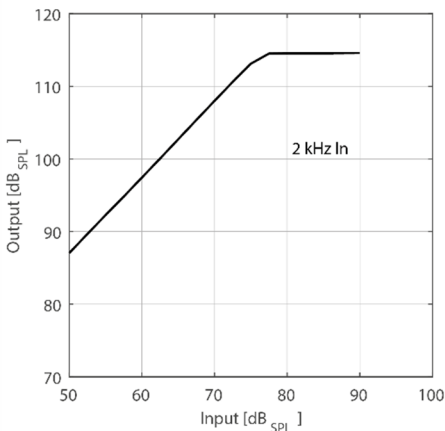
Product Data

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

m2 CIC ZERO



m4 CIC P ZERO



Medical Device (Hearing Aid) Classification in compliance with IEC 60601-1

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

	m2 CIC ZERO	m4 CIC P ZERO
Nominal Operating Voltage	1.4 V	
Current Type	Direct Current	
Nominal Current Leakage	0.87	1.17
Battery Nomenclature (EN 60086)	PR70	

Product Data

Accessories & Spare Parts

See list available in *Order Form*:

- OF-0042-06 (m2 CIC ZERO)
- OF-0042-07 (m4 CIC P ZERO)

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

Requeriments

- 89600 Fitting Software Microson CODA e-STUDIO (6.9.2 or higher)
 - 53781 Cable CS63 HI-PRO Right
 - 53832 Cable CS63 HI-PRO Left
 - 83968 Flex cable adaptor 3 Pin
 - NOAHLINK^A Programmer (Kernel v. 1.55.03)
 - HI-PRO^B USB Programmer (Firmware 3.00 o superior)
 - HI-PRO^B 2 Programmer (Firmware 4.00 o superior)
- (A) NOAHLINK is a licensed product and registered trademark 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 CIC ZERO ¹	102038	MICROSON m2 CIC ZERO Beige
	102039	MICROSON m2 CIC ZERO Black
m4 CIC P ZERO ¹	102046	MICROSON m4 CIC P ZERO Beige
	102048	MICROSON m4 CIC P ZERO Black

GMDN Code: 41209

¹ See available models in *Order Form*: OF-0042-06 (m2 CIC ZERO) and OF-0042-07 (m4 CIC P ZERO)