

- ① Dome or adapter
- ② Receiver
- ③ Receiver socket
- ④ Microphone
- ⑤ Programs push button
- ⑥ Battery compartment (Type 13)

DESCRIPTION

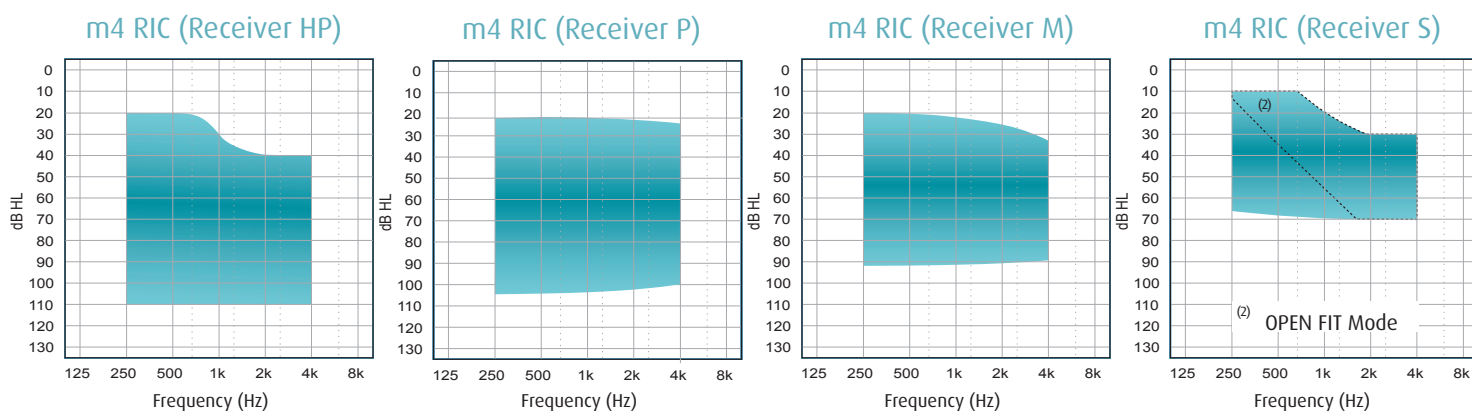
Receiver In Canal (RIC) air conduction digital hearing, with 8 WDRC channels, Battery 13, programmable through fitting software.

INTENDED USE

The MICROSON m4 RIC 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⁽¹⁾

⁽¹⁾ Fitting Range



Features

- ✓ Matrix 131/72 @ 2cc m4 RIC (Receiver HP)
- ✓ Matrix 123/66 @ 2cc m4 RIC (Receiver P)
- ✓ Matrix 120/55 @ 2cc m4 RIC (Receiver M)
- ✓ Matrix 108/46 @ 2cc m4 RIC (Receiver S)
- ✓ 100% Digital Technology
- ✓ Digital Programmable
- ✓ Real Time Analysis
- ✓ 8 Independent WDRC Channels
- ✓ 23 Bands
- ✓ 4 Memories
- ✓ Automatic Environment Detection (iSD)
- ✓ OPTIMIZER Feedback Canceller
- ✓ Automatic Noise Reduction up to 9 dB_{SPL}
- ✓ Data Logging
- ✓ Nanoproof Coating⁽²⁾ **New!**
- ✓ Degree of Protection IP57 (IEC 60529) **New!**
- ✓ Low Battery Indicator
- ✓ Memory Change Indicator
- ✓ Suitable for mobile phones⁽³⁾
- ✓ Battery 13 Type - PR48 (IEC 60086)
- ✓ Standard and Open Fit (Receiver S)

(2) Nanometric Coating protection against intrusion of particles

(3) In compliance with IEC 60118-13:2011

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^BHI-PRO® is a registered trademark of GN Otometrics A/S in Denmark.

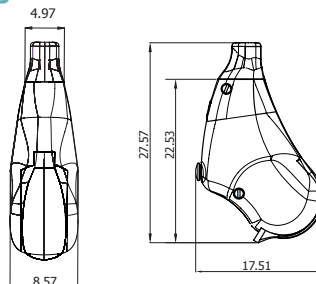
Requirements

- 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-PRO2^B Hearing Instrument Programmer (Firmware 4.00 or higher)

NOTE:

Insert Battery Type 13 (PR-48) Adapter for programming (Ref. 79345)

Weight & Dimensions



Weight excluding battery: 1.39 gr.
Weight including battery: 2.17 gr.
Dimensions in millimeters (mm)

^{*}In Compliance with IEC 60118-13:2011

	Acoustic Data	IEC 60118-7:2005 IEC 60118-0:2015				IEC 60118-0:1983/ A1:1994			
		RECEIVER				RECEIVER			
		HP	P	M	S	HP	P	M	S
OUTPUT	OSPL ¹ 90 Peak (dB _{SPL})	131	123	120	108	139	133	131	119
	OSPL 90 Peak Frequency (Hz)	2100	3000	3100	3300	2100	3000	3100	3300
	HFA ² -OSPL90 / RTF ³ -OSPL90 (dB _{SPL})	124	118	116	102	134	126	124	110
GAIN	HFA-FOG (dB)	64	61	50	39	71	69	57	47
	RTF-FOG (dB)	66	59	49	39	73	68	57	47
	FOG (dB)	72	66	55	46	79	76	64	57
	FOG Frequency (Hz)	2100	3100	3100	3200	2100	3100	3100	3400
	RTG (Reference Test Gain) (dB)	47	41	39	25	59	51	48	34
NOISE	Equivalent Input Noise (dB _{SPL})	22	25	23	25	21	24	25	25
AGC ⁴	Attack Time (ms)	1	1	4	6	9	6	7	9
	Release Time(ms)	16	7	18	16	4	5	5	4
DISTORTION	500 Hz @ 70 dB _{SPL} (%)	0.5	0.9	0.7	0.2	1.3	3.1	1.4	0.4
	800 Hz @ 70 dB _{SPL} (%)	0.7	1.1	1.1	0.2	1.6	2.6	2.0	0.5
	1600 Hz @ 65 / 70 dB _{SPL} (%)	0.2	1.2	1.1	0.4	0.4	3.1	2.0	0.7
CONSUMPTION	Current Drain (mA)	0.89	0.89	1.07	0.56	0.71	0.69	0.82	0.53
FREQUENCY LIMITS	f ₁ (Hz)	<100	<100	<100	<100	100 [*]	100 [*]	200 [*]	<100 [*]
	f ₂ (Hz)	5900	5700	7200	6300	5700 [*]	6500 [*]	7300 [*]	7100 [*]
IRIL ⁵ (Bystander compatibility)	800 - 960 MHz (dB _{SPL})	<13	<13	<2	<7	<13	<13	<2	<7
	1400 - 2000 MHz (dB _{SPL})	<13	<13	<2	<7	<13	<13	<2	<7
Power Source: 1.3V 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)

^{*} According to DIN 45605 standard

⁴AGC: Automatic Gain Control

⁵IRIL: Input-Related Interference Level (IEC 60118-13:2011)

 **WARNING!**

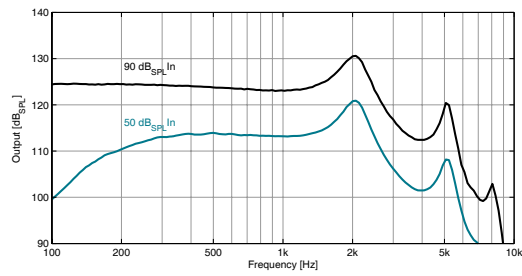
This hearing aid can generate sound output levels in excess of 132 dB_{SPL} (IEC 60318-4 Coupler).
The hearing care specialist should be specially careful when fitting the instrument as there may be risk of impairing the remaining hearing of the hearing instrument user.

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 [*]

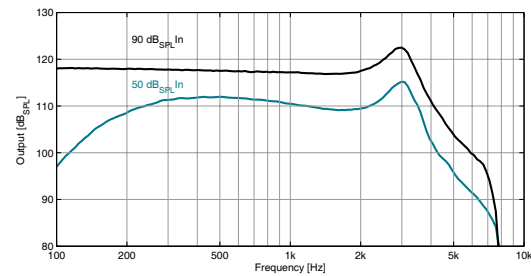
^{*}Avoid rapid pressure changes

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

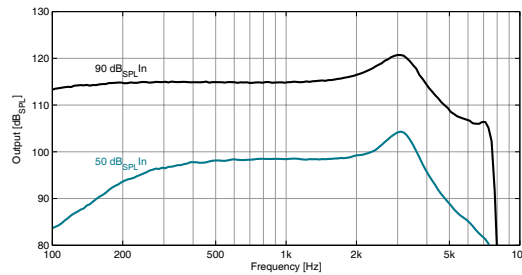
m4 RIC (Receiver HP)



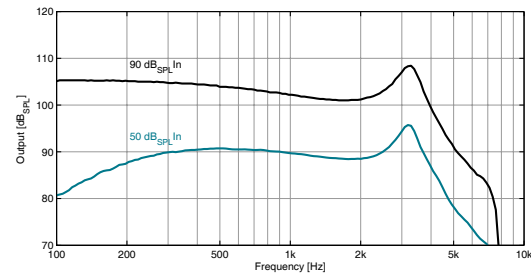
m4 RIC (Receiver P)



m4 RIC (Receiver M)

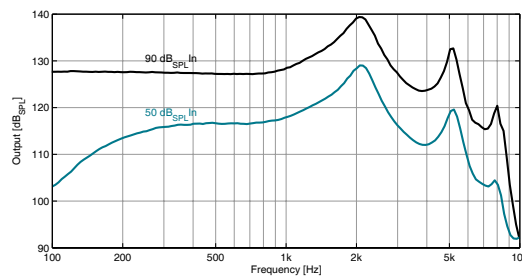


m4 RIC (Receiver S)

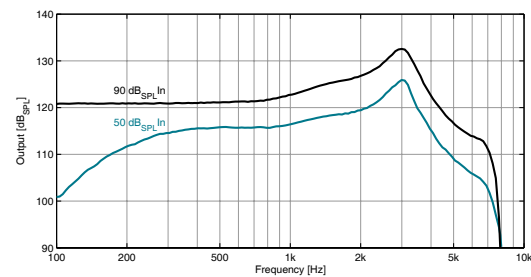


OSPL90 / OSPL50 @ FOG @ IEC 60118-0:1983/A1:1994

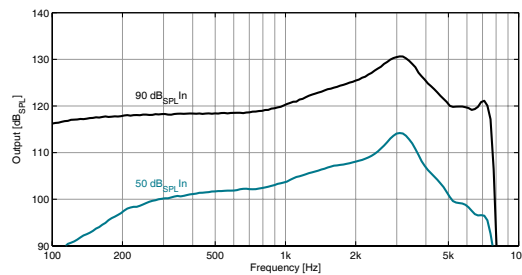
m4 RIC (Receiver HP)



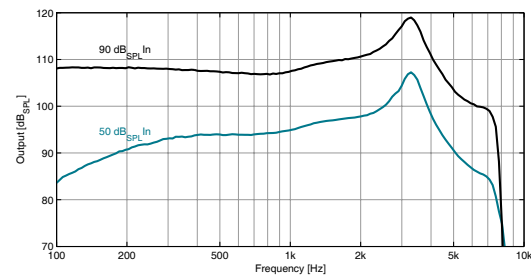
m4 RIC (Receiver P)



m4 RIC (Receiver M)

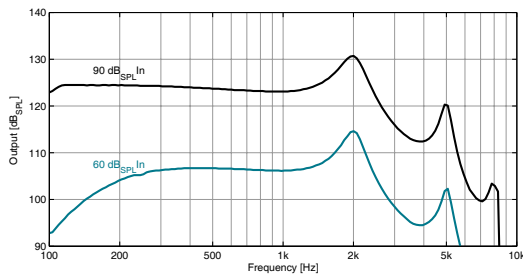


m4 RIC (Receiver S)

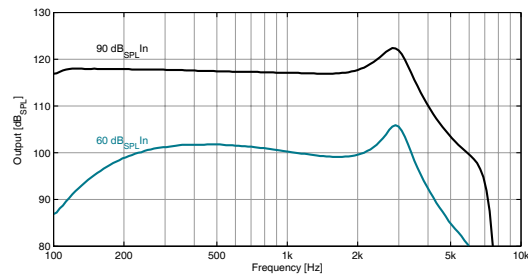


FREQUENCY RESPONSE @ RTS @ IEC 60118-7:2005

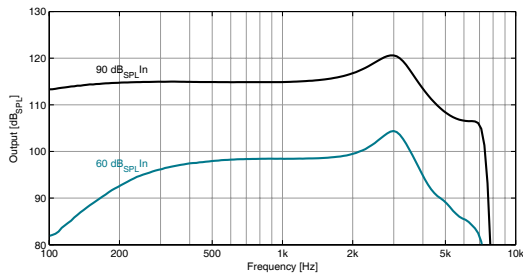
m4 RIC (Receiver HP)



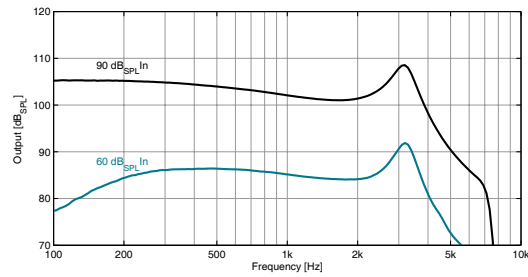
m4 RIC (Receiver P)



m4 RIC (Receiver M)

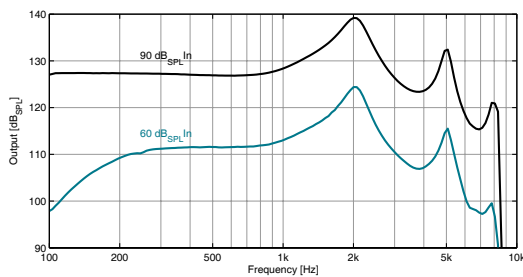


m4 RIC (Receiver S)

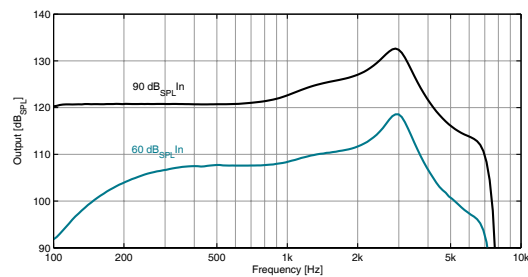


FREQUENCY RESPONSE @ RTS @ IEC 60118-0:1983/A1:1994

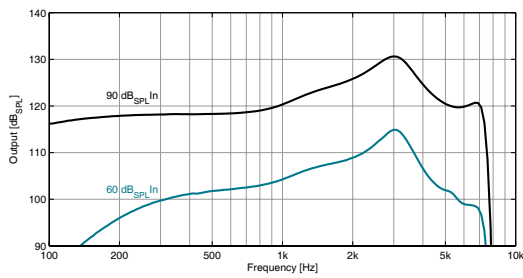
m4 RIC (Receiver HP)



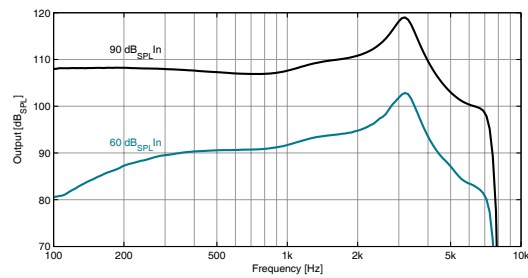
m4 RIC (Receiver P)



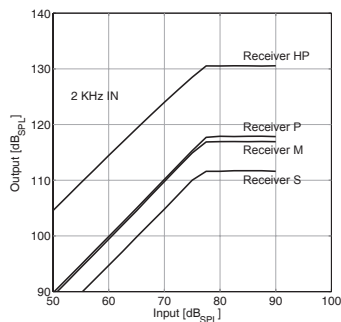
m4 RIC (Receiver M)



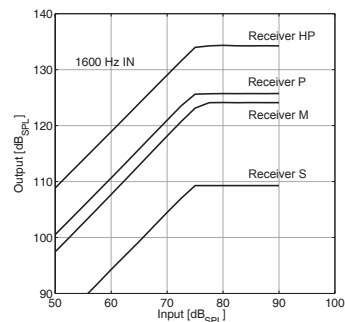
m4 RIC (Receiver S)



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



INPUT-OUTPUT @ RTS @ IEC 60118-0:1983/A1:1994



Accessories & Spare Parts for professionals

- 75138 Microphone Foam Protector (70Pcs)
- 81730 Mold Receiver Removal Tool
- 88852 Membrane Windscreen BTE Beige (10Pcs)
- 88855 Membrane Windscreen BTE Artic Grey (10Pcs)
- 88854 Membrane Windscreen BTE Dolphin (10Pcs)
- 88853 Membrane Windscreen BTE Black (10Pcs)
- 91935 Waterproof Windscreen BTE Black (10Pcs)
- 91934 Waterproof Windscreen BTE Silver (10Pcs)
- 84787 Check Receiver Template Card
- 81718 Receiver Wax Filter Dispenser Blue (15Pcs)
- 81719 Receiver Wax Filter Dispenser Red (15Pcs)
- 84647 Measuring Gauge
- 86586 Ric Receiver Filter Set
- 88192 Microson Microbox case
- 94583 6 Pack of Microson 13 hearing aid batteries M/Free (PR48)
- FG-0016-001-ES Guía programación m4 RIC ES
- FG-0016-002-EN Fitting Guide m4 RIC EN

Accessories & Spare Parts for end user

- 91118 Brush cleaner
- 81718 Blue HF4 pack filters + dispenser (15 pcs)
- 81719 Red HF4 pack filters + dispenser (15pcs)
- 94583 6 Pack of Microson 13 hearing aid batteries M/Free (PR48)
- 88192 Microson Microbox case
- 91146 User's manual Microson m2_m4 RIC LP3
- 91147 User's manual Microson m2_m4 RIC LP2

m4 RIC Receivers*

Receiver S Receiver Tube S



- 83457 RIC S-45dB n°0 R
- 83475 RIC S-45dB n°0 L
- 83456 RIC S-45dB n°1 R
- 83476 RIC S-45dB n°1 L
- 83454 RIC S-45dB n°2 R
- 83477 RIC S-45dB n°2 L
- 83460 RIC S-45dB n°3 R
- 83478 RIC S-45dB n°3 L

Receiver M Receiver Tube M



- 86745 RIC M(v2)-55dB n°0 R
- 86744 RIC M(v2)-55dB n°0 L
- 86747 RIC M(v2)-55dB n°1 R
- 86746 RIC M(v2)-55dB n°1 L
- 86749 RIC M(v2)-55dB n°2 R
- 86748 RIC M(v2)-55dB n°2 L
- 86751 RIC M(v2)-55dB n°3 R
- 86750 RIC M(v2)-55dB n°3 L

Receiver P Receiver Tube P



- 83465 RIC P-65dB n°0 R
- 83471 RIC P-65dB n°0 L
- 83466 RIC P-65dB n°1 R
- 83472 RIC P-65dB n°1 L
- 83458 RIC P-65dB n°2 R
- 83473 RIC P-65dB n°2 L
- 83459 RIC P-65dB n°3 R
- 83474 RIC P-65dB n°3 L

Receiver HP Receiver Tube HP



- 85803 RIC HP-75dB n°0 R
- 85802 RIC HP-75dB n°0 L
- 85805 RIC HP-75dB n°1 R
- 85804 RIC HP-75dB n°1 L
- 85807 RIC HP-75dB n°2 R
- 85806 RIC HP-75dB n°2 L
- 85809 RIC HP-75dB n°3 R
- 85808 RIC HP-75dB n°3 L

Dome Adapters (6 Pcs Packs)

Reference	Description	Type
84627	Adaptader RIC	Double closed 10-12mm grid filter
84628	Adaptader RIC	Double closed 8-10mm grid filter
84640	Adaptader RIC	Open 10mm grid
84641	Adaptader RIC	Open 4mm grid
84642	Adaptader RIC	Open 8mm grid
84643	Adaptader RIC	Closed 10mm grid
84644	Adaptader RIC	Closed 6mm grid
84645	Adaptader RIC	Closed 8mm grid
90945	Adaptader RIC	Semi open

Model



(*) Manufacturer: Sivantos GmbH, Henri-Dunant-Str. 100 D-91058 Erlangen, Germany



DS-0016-011-EN
Rev.F 2018-07-17

m4 RIC Rev.B
5 of 6

HEARING INSTRUMENT CLASSIFICATION IN COMPLIANCE WITH IEC 60601-1 STANDARD
Medical Device Classification

Protection against electric shock	MEDICAL DEVICE WITH INTERNAL ELECTRICAL POWER SOURCE
	B Type 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.
Working Method	CONTINUOUS WORKING

Power Supply Electrical Features

	m4 RIC			
	RECEIVER HP	RECEIVER P	RECEIVER M	RECEIVER S
Nominal Operating Voltage	1.4 V			
Current Type	Direct current DC			
Nominal Current Leakage	0.71 mA	0.69 mA	0.82 mA	0.53 mA
Battery Nomenclature (IEC 60086)	PR48			

PRODUCT	REFERENCE	MODEL	GTIN-13
m4 RIC	PREMIUM	90235 MICROSON m4 RIC SILVER	 8435281310821
		90236 MICROSON m4 RIC ANTHRACITE	 8435281310838
		90237 MICROSON m4 RIC VIOLET	 8435281310845
		98315 MICROSON m4 RIC SAND	 8435281312665
		84433 MICROSON m4 RIC BEIGE	 8435281308835
		84434 MICROSON m4 RIC BLACK	 8435281308842
		84435 MICROSON m4 RIC ARTICGREY	 8435281308859
		84638 MICROSON m4 RIC LIGHTBLUE	 8435281308866
		84639 MICROSON m4 RIC DOLPHGREY	 8435281308873

GMDN Code: 47169

Product Data