

DESCRIPTION

In-the-canal air-conduction hearing aid (ITC), Battery 312, programmable through fitting software, Wireless connectivity, Remote control mc-PAD compatible.

INTENDED USE

The MICROSON mc-8 ITC P hearing instrument is indicated to compensate mild to severe hearing loss (transmissive, mixed or sensorineural). It is not suitable for children.

See Fitting Range⁽¹⁾

Features

- ✓ Matrix 119/49 @ 2cc
- ✓ 100% Digital Technology
- ✓ Digitally Programmable
- ✓ Real Time Analysis
- ✓ 8 Independent Channels WDRC
- ✓ 23 Bands
- ✓ 6 Memories
- ✓ Automatic Directional Microphones
- ✓ Automatic Feedback Canceller (OPTIMIZER)
- ✓ Data Logging
- ✓ Automatic Noise Reduction
- ✓ Automatic Environment Detection (iSD)
- ✓ Wireless Connectivity
- ✓ Low Battery Indicator
- ✓ Memory change indicator
- ✓ Suitable for mobile phones*
- ✓ Battery Type 312 - PR41 (IEC 60086)

Options

- ✓ Telecoil

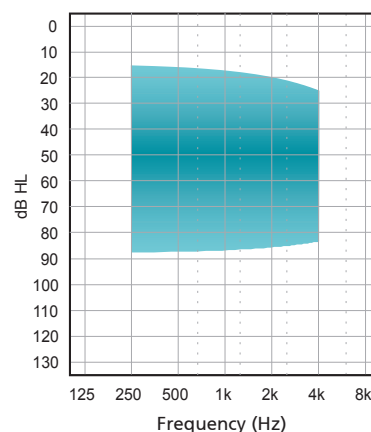
Requeriments

- 89600, Fitting Software Microson CODA e-STUDIO 6 (6.1.1 or higher)
- 53781, 4 Pin Hi-Pro Cable Right
- 53832, 4 Pin Hi-Pro Cable Left
- 83968, 3 Pin Flex Cable
- 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-PRO^{B2} Hearing Instrument Programmer (Firmware 4.00 or higher)
- 93337, mc-PAD Remote Control Microson

NOTE:

Requires Battery 312 Flex (Ref. 83968) for programming

⁽¹⁾ Fitting Range



Product Data

* In compliance with IEC 60118-13:2011

^(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..

Measurements performed using a UPL 66 Audio Analyser (Rohde & Schwarz) Id 23564 test unit on January 2015 and are subject to changes without prior notice.

	Acoustic Data	IEC 60118-7:2005	IEC 60118-0:1993/ A1:1994
OUTPUT	OSPL ¹ 90 Peak (dB _{SPL})	119	128
	OSPL90 Peak Frequency (Hz)	3000	3000
	HFA ² -OSPL90 / RTF ³ -OSPL90 (dB _{SPL})	114	121
GAIN	HFA-FOG ⁴ (dB)	44	51
	RTF-FOG (dB)	43	50
	FOG (dB)	49	59
	FOG Frequency (Hz)	3000	3000
	RTG ⁵ (dB)	38	46
NOISE	Equivalent Input Noise (dB _{SPL})	18	19
AGC ⁶	Attack Time (ms)	2	6
	Release Time(ms)	17	21
TELECOIL	HFA-SPLI ⁷ / RTF-SPLI (dB _{SPL})	94	103
	HFA-FOG-MASL ⁸ / RTF-FOG-MASL @ 1 mA/m (dB _{SPL})	70	76
	500 Hz @ 100 mA/m (THD %)	1,3	0,7
	800 Hz @ 100 mA/m (THD %)	0,5	1,2
	1600 Hz @ 100 mA/m (THD %)	2,5	2,9
DISTORTION	500 Hz @ 70 dB _{SPL} (THD %)	1,0	1,8
	800 Hz @ 70 dB _{SPL} (THD %)	1,1	2,3
	1600 Hz @ 65 / 70 dB _{SPL} (THD %)	0,4	1,1
CONSUMPTION	Current Drain (mA)	1,18	0,99
FREQUENCY LIMITS	f ₁ (Hz)	<100	100 [*]
	f ₂ (Hz)	7800	8000 [*]
Power Source: 1.3V Battery Simulator		EN 60318-5:2006	EN 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

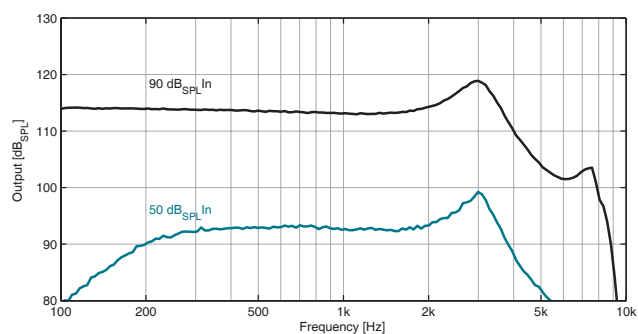
⁶AGC: Automatic Gain Control

⁷SPLI: Sound Pressure Level Inductive

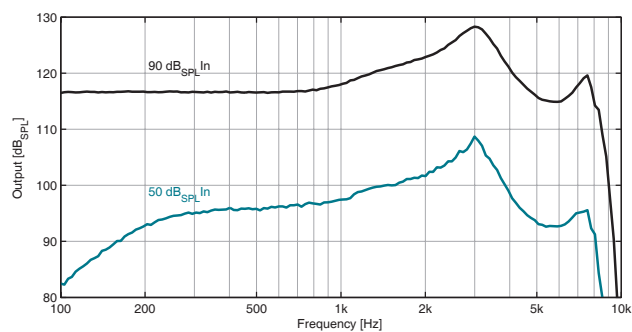
⁸MASL: Magneto Acoustical Sensitivity Level

^{*} According to DIN 45605 standard

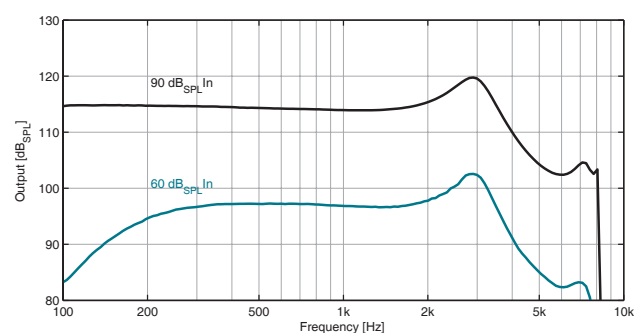
OSPL90 / OSPL50 @ FOG @ IEC 60118-7:2005



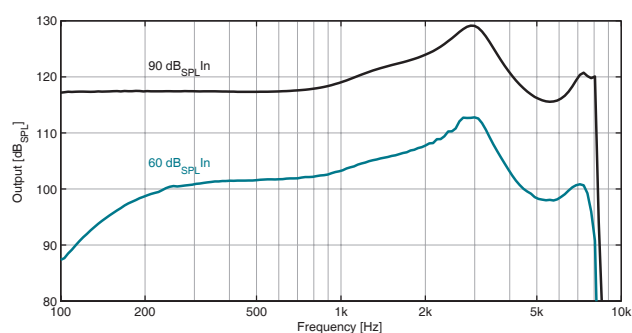
OSPL90 / OSPL50 @ FOG @ IEC 60118-0:1983/A1:1994



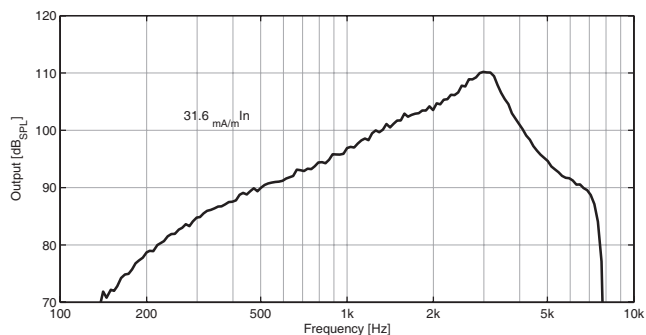
FREQUENCY RESPONSE @ RTS @ IEC 60118-7:2005



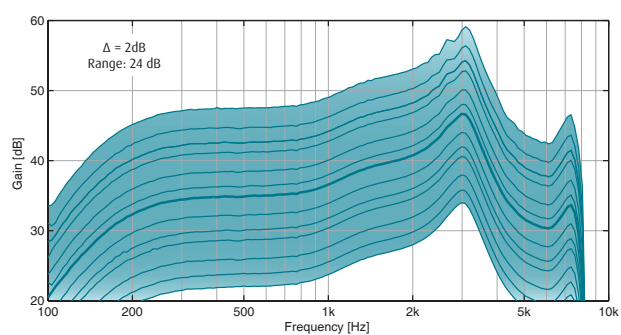
FREQUENCY RESPONSE @ RTS @ IEC 60118-0:1983/A1:1994



TELECOIL SENSITIVITY @ RTS @ IEC 60118-0:1983/A1:1994

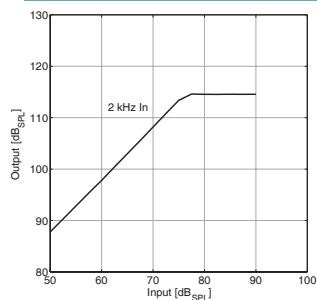


FREQUENCY RESPONSE @ VOL. CTRL. @ IEC 60118-0:1983/A1:1994

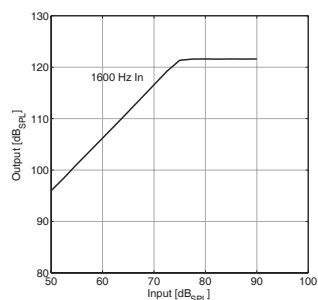


INPUT-OUTPUT @ RTS

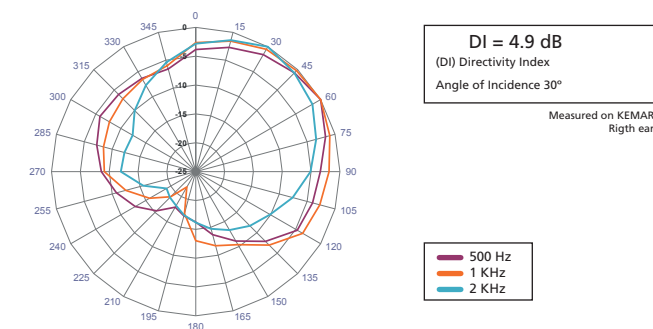
@ IEC 60118-7:2005



@ IEC 60118-0:1983/A1:1994



POLAR PLOT DIRECTIONAL MODE @ EN 60118-8:2005



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 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

Environmental Conditions

	Temperature Min.(°C)	Temperature Max.(°C)	Relative Humidity Min.(%)	Relative Humidity Max.(%)
Recommended usage and storage	0	40	10	95

Power Supply Electrical Features

	mc-8 ITC P
Nominal Operating Voltage	1.4 V
Current Type	Direct current DC
Nominal Current Leakage	0.99 mA
Battery Nomenclature (IEC 60086)	PR41

Radio Frequency (RF) Characteristics - R&TTE¹ (Directive 1999/5/EC)

Frequency	10.579 MHz
Classification	Subclass 1: 78
Frequency Limits	552 KHz
Maximum Output	-37,36 dBμA/m @ 10 m

Accessories & Spare Parts for end user

93337 mc-PAD Remote Control Microson
 63850 Blue HF3 pack filters + dispenser (15 pcs)
 63849 Red HF3 pack filters + dispenser (15 pcs)
 88192 Microson Microbox case
 93483 User's manual mc-8 ITC P LP2 (ES/EN/IT/PT/FR)*

PRODUCT	REFERENCE	MODEL	GTIN-13
mc-8 ITC P	88628	FACE PLATE MICROSON mc-8 ITC P L	8435281311781
	88629	FACE PLATE MICROSON mc-8 ITC P R	8435281311798

GMDN Code: 41209

¹Radio Equipment and Telecommunications Terminal Equipment

*ES / Spanish, EN / English, IT / Italian, PT / Portuguese, FR / French