Motion C&G SP IX

Data Sheet

7IX | 5IX | 3IX | 2IX | 1IX

Earhook

- 82 dB / 140 dB SPL
  (2 ccm coupler)
- 85 dB / 143 dB SPL
  (Ear simulator)

Data sheet also applicable for Motion C&G SP sDemo DIX

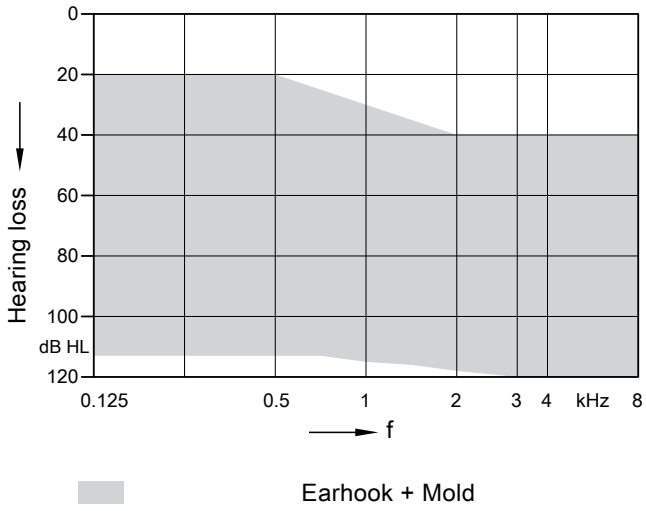
Motion C&G SP IX | Technical Data

Type	Earhook	
	2 ccm coupler	Ear simulator
Output sound pressure level		
OSPL90 at 1.6 kHz	—	135 dB SPL
Maximum OSPL90	140 dB SPL	143 dB SPL
HFA-OSPL90	132 dB SPL	—
Gain		
FOG at 1.6 kHz	—	77 dB
Maximum FOG	82 dB	85 dB
HFA-FOG	73 dB	—
Reference test gain	55 dB	59 dB
Frequency, noise and directivity		
Frequency range	100 - 5300 Hz	110 - 5400 Hz
Equivalent input noise	16 dB SPL	17 dB SPL
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz	5 / 1 / 1 / 1 %	5 / 2 / 2 / – %
Tinnitus noiser broadband	94 dB SPL	—
AI-DI	3.8 dB	
Latency	< 15 ms	
Inductive coil sensitivity		
MASL (1 mA/m) at 1.6 kHz	—	107 dB SPL
Full-on HFA-SPLIV (10mA/m)	124 dB SPL	—
HFA SPLITS (left/right)	115 / 115 dB SPL	—
RSETS (left/right)	0 / 0 dB	—
HFA SPLIV	115 dB SPL	—
Battery		
Battery runtime (without streaming)	up to 73 h	
Battery runtime (incl. 5 h streaming)	up to 65 h	
Cellphone Compatibility		
Microphone mode	0.65 - 0.96 GHz 1.4 - 2.7 GHz	
Telecoil mode	0.65 - 0.96 GHz 1.4 - 2.7 GHz	

— not applicable

Please find additional information to the values on page “Further Information”.

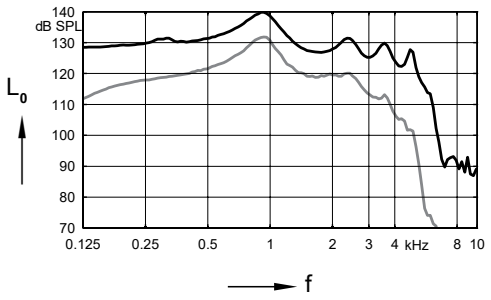
Motion C&G SP IX | Fitting Range



Earhook + Mold

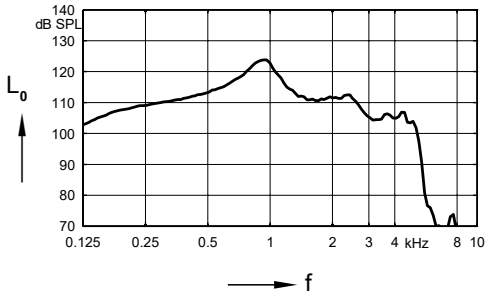
Earhook | Basic Data

2 ccm coupler



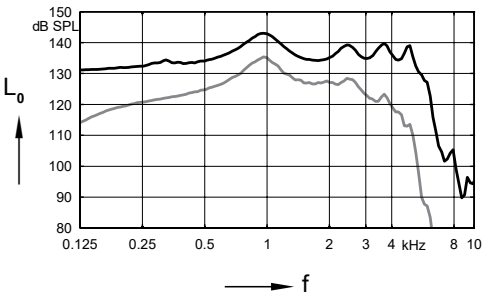
Max. Output sound pressure level (L_I = 90 dB)

Full on gain (L_I = 50 dB)



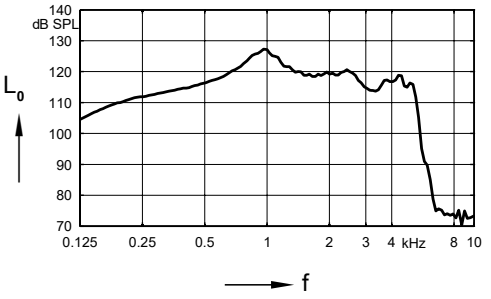
Frequency response (L_I = 60 dB)

Ear simulator



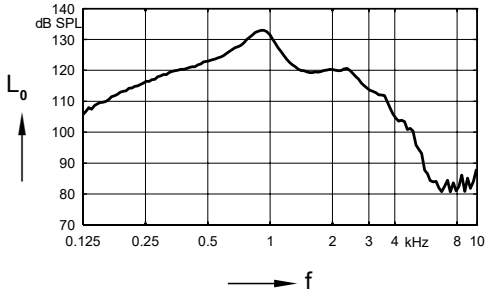
Max. Output sound pressure level (L_I = 90 dB)

Full on gain (L_I = 50 dB)

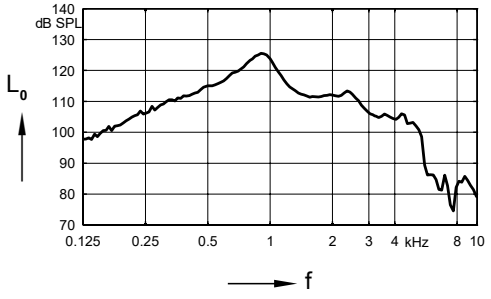


Basic acoustic response (L_I = 60 dB)

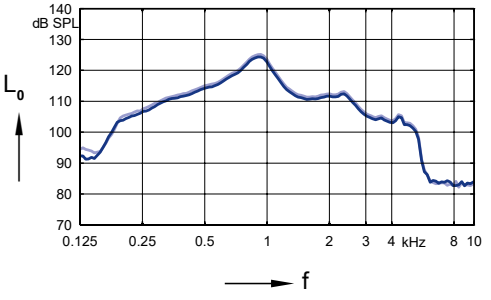
Inductive response



Inductive response (H = 10 mA/m)



SPLIV curve (H = 31.6 mA/m)



SPLITS curve left (H = 31.6 mA/m)

SPLITS curve right (H = 31.6 mA/m)

Motion C&G SP IX | Further information

Abbreviations

The following abbreviations are used in this data sheet:

SPL	Sound Pressure Level
OSPL	Output Sound Pressure Level
HFA	High Frequency Average
FOG	Full-On Gain
MASL	Magneto Acoustical Sensitivity Level
SPLITS	Coupler SPL for an Inductive Telephone Simulator
RSETS	Relative Simulated Equivalent Telephone Sensitivity
SPLIV	SPL In a Vertical magnetic field
AI-DI	Articulation Index - Directivity Index
IRIL	Input Related Interference Level
RTF	Reference Test Frequency
ASHA	Audio Streaming for Hearing Aids

Standards and additional information

- All measurements with the 2 ccm coupler were performed according to EN IEC 60118-0:2024 and ANSI S3.22:2014 if applicable.
- All measurements with an ear simulator were performed according to EN 60118-0:1993 + A1:1994 and to DIN 45605 (frequency range) if applicable.
- All Cellphone Compatibility measurements were performed according to EN IEC 60118-13:2020 and ANSI C63.19:2019.
- Cellphone Compatibility definition: It is expected that the hearing aid user can effectively use a compliant wireless device held in a talking position at the ear. Maximum achievable Cellphone Compatibility range: 0.65 – 0.96 GHz and 1.4 – 2.7 GHz.
- Curves and figures representing FOG are measured with 20 dB reduction and 70 dB SPL input level.
- Figures representing Equivalent Input Noise incorporate a moderate expansion.
- Tinnitus noiser measurement conditions: all tinnitus single frequency sliders in max position, master volume slider in default position (0 dB) and local volume control in default position.
- Inductive coil sensitivity values, inductive response curves and T ratings apply for instruments with telecoil only.
- The current consumption is measured in reference test setting (RTS) according to the applicable standards. Due to the settling behaviour of hearing aids supporting RF (Radio Frequency), the battery current is measured 3 minutes after turning on (note: no pairing).
- The battery runtime is based on first fit settings using 60 % of the fitting range and an ISTS (International Speech Test Signal) input signal at 65 dB SPL (note: pairing established). The actual battery runtime is determined by battery quality, hearing loss, sound environment, usage and activated feature set. Regarding RF usage, Bluetooth audio streaming from phone to hearing aid and from hearing aid to phone are considered.
- The following acoustic connections / ear pieces were used:
  - Earhook + Mold

Special note for instruments with built-in lithium-ion rechargeable battery

The runtime of all lithium-ion rechargeable batteries reduces over time. The estimates are based on fresh lithium-ion rechargeable battery capacity. Under normal operating conditions, the battery will retain up to 80 % of its initial capacity after 3 years of use. Please note that battery performance will vary depending on individual usage patterns and environmental conditions.

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Subject to change
without prior notice

The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases and are subject to change without prior notice. The required features should therefore be specified in each individual case at the time of conclusion of the respective contract.