

# Motion 13 Nx

## Technical Data



7Nx

5Nx

3Nx





### Earhook

- 70 dB / 139 dB SPL (ear simulator)
- 63 dB / 134 dB SPL (2 ccm coupler)

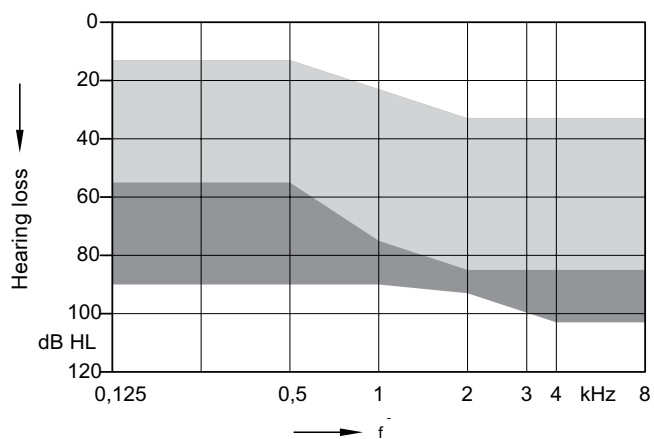
### ThinTube

- 61 dB / 130 dB SPL (ear simulator)
- 56 dB / 126 dB SPL (2 ccm coupler)

# Motion 13 Nx | Technical Data

Type	Earhook		ThinTube	
				
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
<b>Output sound pressure level</b>				
at 1.6 kHz	–	137 dB SPL	–	123 dB SPL
Peak	134 dB SPL	139 dB SPL	126 dB SPL	130 dB SPL
HFA-OSPL 90	128 dB SPL	–	117 dB SPL	–
<b>Gain</b>				
Full on gain (FOG) at 1.6 kHz	–	63 dB	–	53 dB
Full on gain (Peak)	63 dB	70 dB	56 dB	61 dB
HFA-FOG	55 dB	–	48 dB	–
Reference test gain	51 dB	56 dB	40 dB	47 dB
<b>Frequency, noise and directivity</b>				
Frequency range 7Nx 5Nx / 3Nx	100 - 7500 Hz 100 - 7500 Hz	640 - 7800 Hz 640 - 7800 Hz	100 - 7800 Hz 100 - 7800 Hz	110 - 8800 Hz 110 - 8100 Hz
Equivalent input noise	16 dB SPL	16 dB SPL	18 dB SPL	18 dB SPL
Total harmonic distortion at 500 / 800 / 1600 Hz	2 / 2 / 1 %	3 / 2 / 1 %	1 / 1 / 2 %	1 / 2 / 3 %
Tinnitus noiser broadband	70 dB SPL	–	70 dB SPL	–
AI-DI	4.0 dB		4.0 dB	
<b>Inductive coil sensitivity</b>				
MASL (1 mA/m) at 1.6 kHz	–	93 dB SPL	–	85 dB SPL
HFA MASL (1 mA/m)	86 dB SPL	–	79 dB SPL	–
HFA SPLITS (left/right)	110 / 110 dB SPL	–	100 / 100 dB SPL	–
RSETS (left/right)	0 / 0 dB	–	0 / 0 dB	–
HFA SPLIV	110 dB SPL	–	100 dB SPL	–
<b>Battery</b>				
Battery voltage	1.3 V		1.3 V	
Battery current drain	1.4 mA	1.4 mA	2.0 mA	2.8 mA
Battery life (cell zinc air)	~126 h		~126 h	
Battery life (rechargeable)	–		–	
<b>IRIL IEC 60118-13:2016 Ed. 4.0</b>				
700-960 MHz (rating)	user		user	
1400-2000 MHz (rating)	user		user	
2000-2700 MHz (rating)	user		user	
<b>ANSI C63.19-2011</b>				
800-950 MHz (rating)	M4 / T4		M4 / T4	
1600-2500 MHz (rating)	M4 / T4		M4 / T4	

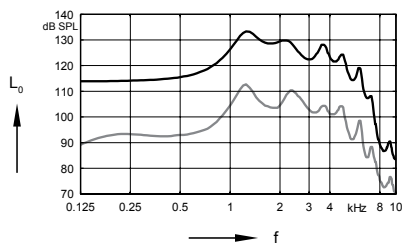
# Motion 13 Nx | Fitting Range



ThinTube double tip  
+ Earhook

# Earhook | Basic Data

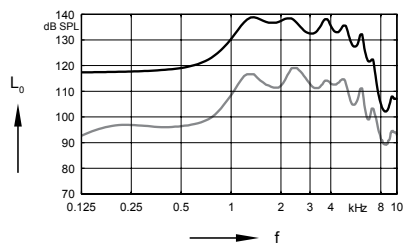
## 2 ccm coupler



**Output sound pressure level**  
( $L_1 = 90$  dB)

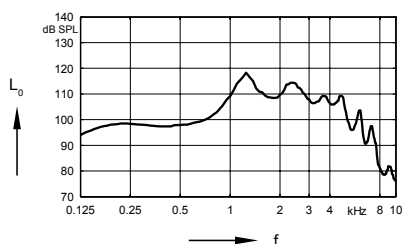
Full on gain  
( $L_1 = 50$  dB)

## Ear simulator

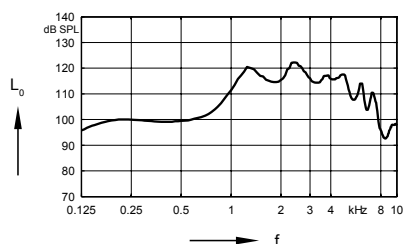


**Output sound pressure level**  
( $L_1 = 90$  dB)

Full on gain  
( $L_1 = 50$  dB)

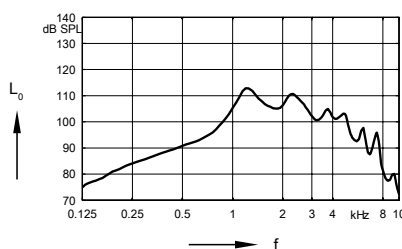


**Frequency response**  
( $L_1 = 60$  dB)

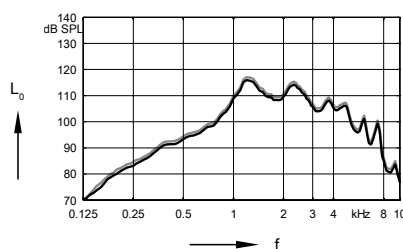


**Basic acoustic response**  
( $L_1 = 60$  dB)

## Inductive response

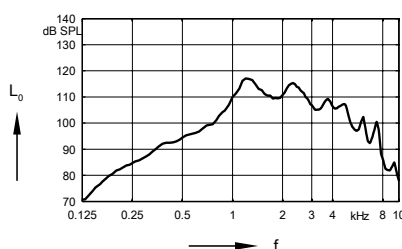


**Inductive response**  
( $H = 10$  mA/m)



**SPLITS curve left**  
( $H = 31.6$  mA/m)

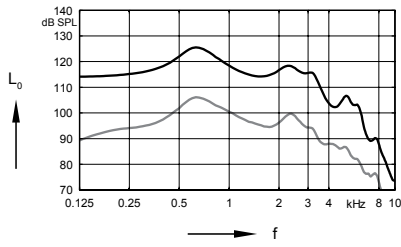
SPLITS curve right  
( $H = 31.6$  mA/m)



**SPLIV curve**  
( $H = 31.6$  mA/m)

# ThinTube | Basic Data

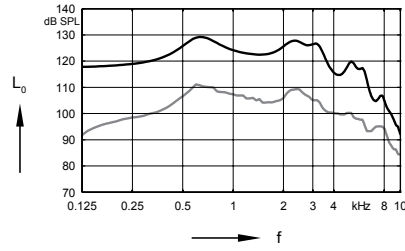
## 2 ccm coupler



**Output sound pressure level**  
( $L_1 = 90$  dB)

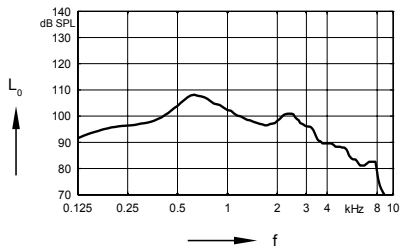
Full on gain  
( $L_1 = 50$  dB)

## Ear simulator

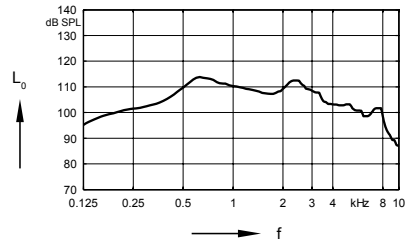


**Output sound pressure level**  
( $L_1 = 90$  dB)

Full on gain  
( $L_1 = 50$  dB)

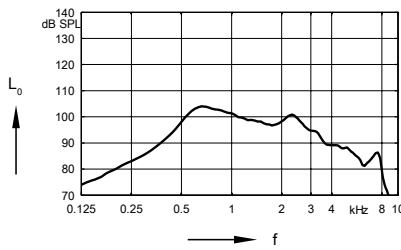


**Frequency response**  
( $L_1 = 60$  dB)

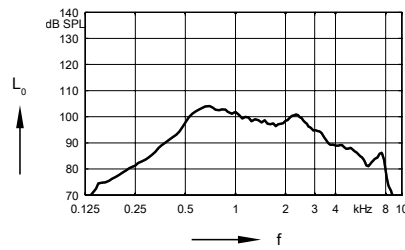


**Basic acoustic response**  
( $L_1 = 60$  dB)

## Inductive response

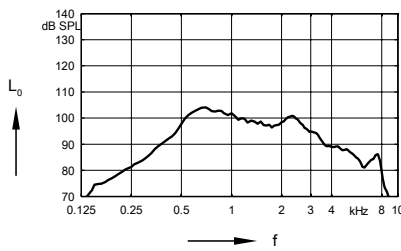


**Inductive response**  
( $H = 10$  mA/m)



**SPLITS curve left**  
( $H = 31.6$  mA/m)

SPLITS curve right  
( $H = 31.6$  mA/m)



**SPLIV curve**  
( $H = 31.6$  mA/m)

# Motion 13 Nx | Features and Accessories

	7Nx	5Nx	3Nx
<b>Audiology</b>			
Own Voice Processing (OVP) <sup>1)</sup>	■■■■■	■■■■■	■■■■■
3D Classifier	■■■■■	■■■■	■■■
Signal processing (channels) / Gain/MPO (handles)	48 / 20	32 / 16	24 / 12
Hearing programs	6	6	6
<b>Sound Clarity</b>			
HD Spatial	●	●	●
Extended dynamic range	●	●	●
Extended bandwidth	●	—	—
EchoShield	●	—	—
HD Music (presets)	3	1	—
eWindScreen binaural <sup>1) 2)</sup>	●	●	—
eWindScreen	●	●	●
Noise Management			
Speech and noise management (steps)	7	5	3
SoundSmoothing (steps)	3	3	1
Directional speech enhancement (steps)	3	1	—
Feedback cancellation	●	●	●
<b>Speech Quality</b>			
Directionality			
Narrow Directionality <sup>1)</sup>	●	●	●
Spatial SpeechFocus <sup>1) 3)</sup>	●	●	—
SpeechFocus	●	●	—
TwinPhone <sup>1)</sup>	●	●	●
Frequency compression	●	●	●
<b>Direct Streaming</b>			
Made for iPhone	●	●	●
Adaptive Streaming Volume <sup>4)</sup>	●	●	●
<b>Tinnitus</b>			
Notched Noise Therapy	●	●	●
Tinnitus noiser	●	●	●
<b>Fitting</b>			
Smart Optimizer and Data Logging	●	●	●
Acclimatization manager	●	●	●
Performance Guide	●	●	●
Insitugram	●	●	●
Learning (classes)	6	3	1
<b>TeleCare</b>			
TeleCare 3.0	●	●	●

<sup>1)</sup> req. bilateral fitting

<sup>2)</sup> not available in the universal program on 5Nx

<sup>3)</sup> for 5Nx in Stroll Program or with Spatial Configurator only

<sup>4)</sup> streaming only

● available ■■■■■ highest feature performance — not available

## Motion 13 Nx | Features and Accessories

	7Nx / 5Nx / 3Nx
<b>Style specific features</b>	
Ingress Protection Rating	IP67
Charging contacts	—
Battery Size	13
Battery door on/off function	●
Nanocoated housing	●
e2e wireless 3.0	●
User controls coupling via e2e	●
Wireless programming	●
<b>Instrument configurations</b>	
Flat cover	—
Rotary volume control	—
Push button	—
Rocker switch	●
Color conversion kit	○
Battery door – integrated telecoil	○
Battery door – child lock	—
Small earhook	○
<b>Programming accessories</b>	
ConnexAir, ConnexLink	—
Noahlink Wireless	●
Programming adapter / cable	size 13
<b>Accessories</b>	
miniPocket	○
StreamLine TV	○
<b>Apps</b>	
myControl App	○
touchControl App	○

● available ○ optional — not available





# Abbreviations and Standards

## Abbreviations

The following abbreviations are used in this datasheet:

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 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

## Standards and additional information

- ▶ All measurements with the 2 ccm coupler were performed according to ANSI S3.22-2014 and IEC 60118-7:2005 if applicable.
- ▶ All measurements with an ear simulator were performed according to IEC 118-0/A1:1994 and to DIN 45605 (frequency range) if applicable.
- ▶ 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.
- ▶ Inductive coil sensitivity values, inductive response curves and T ratings apply for instruments with telecoil battery door only.
- ▶ 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.
- ▶ The current consumption is measured in reference test setting (RTS) according to the applicable standards. Due to the settling behaviour of hearing instruments supporting RF (radio frequency), the battery current is measured 3 minutes after turning on (note: no pairing).
- ▶ The battery life 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 life is determined by battery quality, hearing loss, sound environment, usage and activated feature set.
- ▶ The following acoustic connections / ear pieces were used:
  - Earhook
  - ThinTube
- ▶ Extended frequency range up to 12 kHz for 7Nx devices only.



„Made for iPhone“ means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPhone may affect wireless performance.

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.

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### Warning

Choking hazard posed by small parts.

- ▶ This instrument is not intended for the fitting of infants, children under 3 years and persons of mental incapacity.



### Warning

Instrument has an output sound pressure level of 132 dB SPL or more.

- Risk of impairing the residual hearing of the user.
- ▶ Take special care when fitting this instrument.