

Technical Data



Motion PX / PX+ binax™

7bx

5bx

3bx



Earhook damped

- 77 dB / 137 dB SPL (ear simulator)
- 70 dB / 131 dB SPL (2 ccm coupler)

Earhook undamped

- 79 dB / 140 dB SPL (ear simulator)
- 75 dB / 135 dB SPL (2 ccm coupler)

LifeTube



- 68 dB / 130 dB SPL (ear simulator)
- 65 dB / 127 dB SPL (2 ccm coupler)

Data Sheet

www.siemens.com/hearing

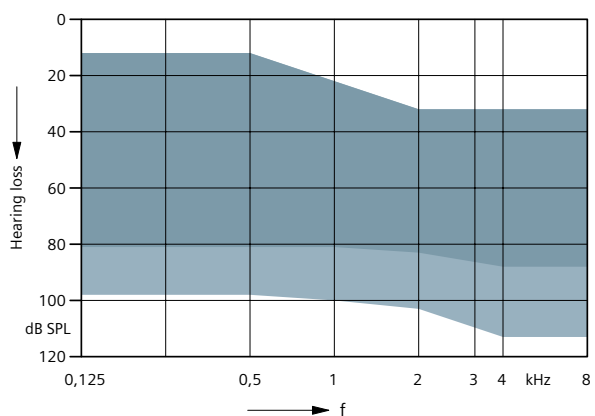
SIEMENS

Motion PX / PX+ binax · Technical Data

Type	Earhook damped		Earhook undamped		LifeTube	
						
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level						
at 1.6 kHz	–	128 dB SPL	–	130 dB SPL	–	117 dB SPL
Peak	131 dB SPL	137 dB SPL	135 dB SPL	140 dB SPL	127 dB SPL	130 dB SPL
HFA-OSPL 90	124 dB SPL	–	129 dB SPL	–	114 dB SPL	–
Gain						
Full on gain (FOG) at 1.6 kHz	–	65 dB	–	71 dB	–	55 dB
Full on gain (Peak)	70 dB	77 dB	75 dB	79 dB	65 dB	68 dB
HFA-FOG	62 dB	–	66 dB	–	49 dB	–
Reference test gain	48 dB	54 dB	52 dB	56 dB	37 dB	42 dB
Frequency, noise and directivity						
Frequency range 7bx 5bx / 3bx	100-7000 Hz 100-7000 Hz	130-7200 Hz 130-7200 Hz	100-6000 Hz 100-6000 Hz	170-6700 Hz 170-6700 Hz	100-5500 Hz 100-5500 Hz	100-6000 Hz 100-6000 Hz
Equivalent input noise	19 dB SPL	19 dB SPL	19 dB SPL	19 dB SPL	27 dB SPL	30 dB SPL
Total harmonic distortion at 500 / 800 / 1600 Hz	2 / 2 / 1 %	2 / 2 / 1 %	3 / 2 / 1 %	3 / 2 / 1 %	1 / 1 / 1 %	1 / 1 / 2 %
Tinnitus noiser broadband	80 dB SPL	–	80 dB SPL	–	80 dB SPL	–
AI-DI	4.0 dB		4.0 dB		4.0 dB	
Inductive coil sensitivity						
MASL (1 mA/m) at 1.6 kHz	–	98 dB SPL	–	100 dB SPL	–	88 dB SPL
HFA MASL (1 mA/m)	93 dB SPL	–	98 dB SPL	–	81 dB SPL	–
HFA SPLITS (left/right)	108 / 108 dB SPL	–	114 / 114 dB SPL	–	98 / 98 dB SPL	–
RSETS (left/right)	0 / 0 dB	–	2 / 2 dB	–	1 / 1 dB	–
Battery						
Battery voltage	1.3 V		1.3 V		1.3 V	
Battery current drain	1.1 mA		1.3 mA		1.2 mA	
Battery life (cell zinc air)	~200 h		~170 h		~185 h	
Battery life (rechargeable)	up to 16 h		up to 16 h		up to 16 h	
IRIL IEC 118-13:2004 (bystander)						
800-960 MHz	<-46 dB SPL		<-46 dB SPL		<-46 dB SPL	
1400-2000 MHz	<-13 dB SPL		<-13 dB SPL		<-13 dB SPL	
ANSI C63.19	M4 / T4		M4 / T4		M4 / T4	

Fitting Range

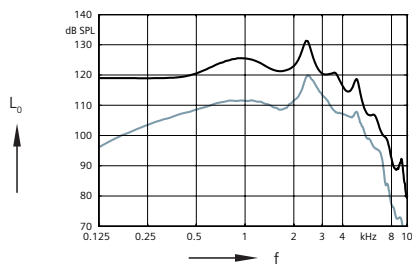
Motion PX / PX+ binax



LifeTube double tip
Earhook damped

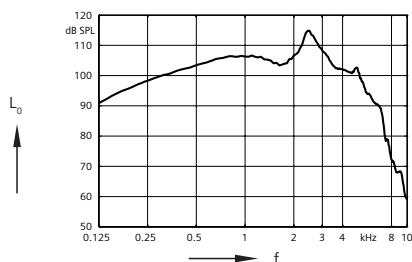
Motion PX / PX+ binax (Earhook damped) · Basic Data

2 ccm coupler



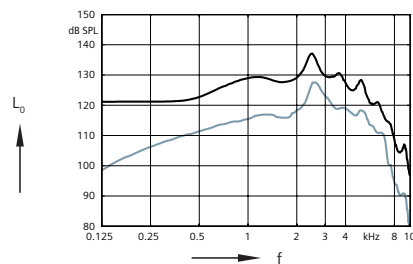
Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)



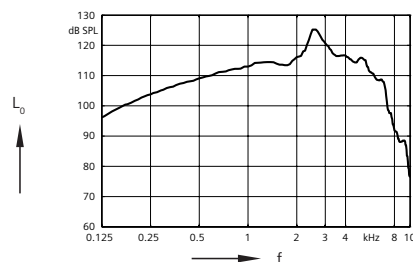
Frequency response
($L_1 = 60$ dB)

Ear simulator



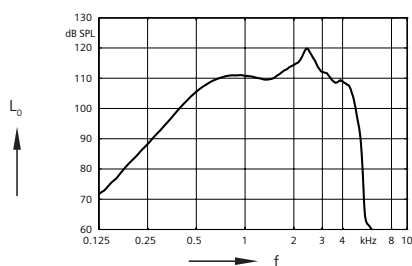
Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)

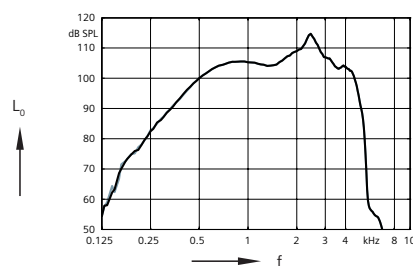


Basic acoustic response
($L_1 = 60$ dB)

Inductive response



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

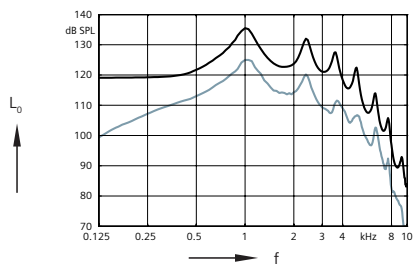


SPLITS curve left
($H = 31.6$ mA/m)

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

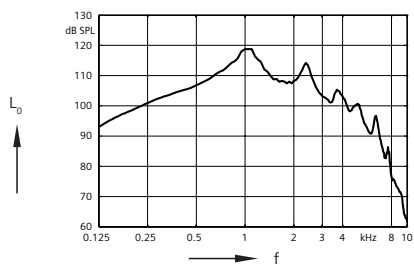
Motion PX / PX+ binax (Earhook undamped) · Basic Data

2 ccm coupler



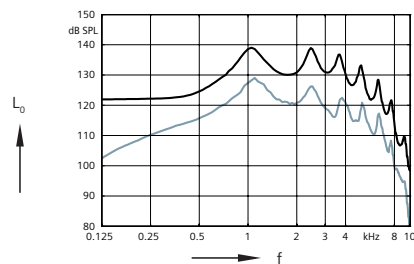
Output sound pressure level
($L_i = 90$ dB)

Full on gain
($L_i = 50$ dB)



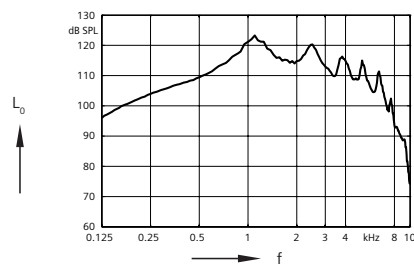
Frequency response
($L_i = 60$ dB)

Ear simulator



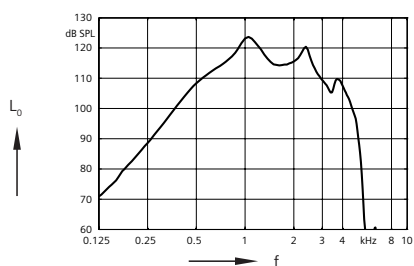
Output sound pressure level
($L_i = 90$ dB)

Full on gain
($L_i = 50$ dB)

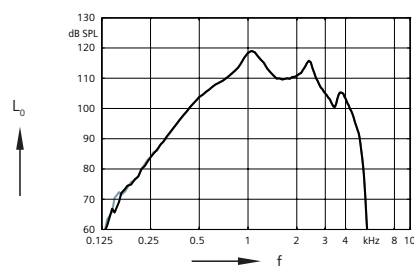


Basic acoustic response
($L_i = 60$ dB)

Inductive response



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

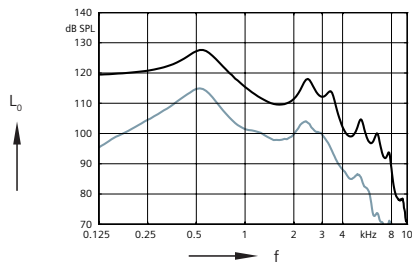


SPLITS curve left
($H = 31.6$ mA/m)

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

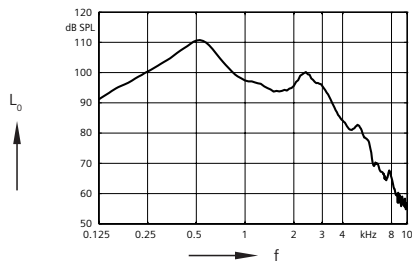
Motion PX / PX+ binax (LifeTube) · Basic Data

2 ccm coupler



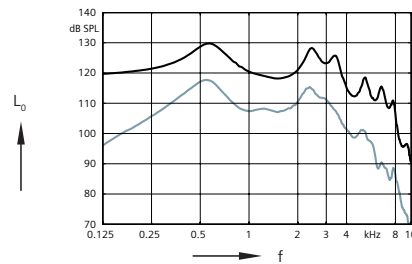
Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)



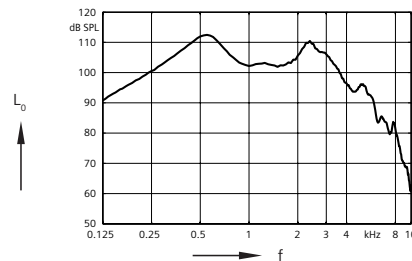
Frequency response
($L_1 = 60$ dB)

Ear simulator



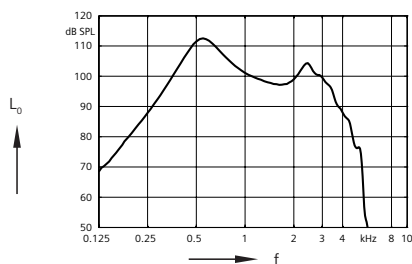
Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)

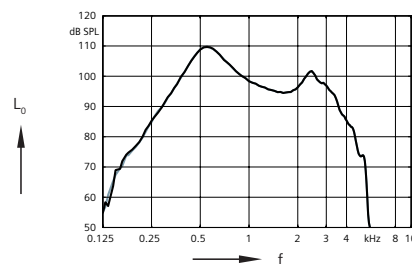


Basic acoustic response
($L_1 = 60$ dB)

Inductive response



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



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

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

Features and Accessories

	7bx	5bx	3bx
General			
Signal processing (channels)	48	32	24
Gain/MPO (handles)	20	16	12
Hearing programs	6	6	6
touchControl™ App (iOS™ / Android™)	●	●	●
Audibility			
Directional microphone (channels)	48	32	24
Narrow directionality (req. bilateral fitting and e2e 3.0)	●	●	●
Spatial SpeechFocus (req. bilateral fitting and e2e 3.0)	●	—	—
SpeechFocus	●	●	—
TruEar™	●	●	●
Frequency compression	●	●	●
Sound Quality			
eWindScreen binaural (req. bilateral fitting and e2e 3.0)	●	—	—
eWindScreen™ (steps)	3	3	on / off
Extended bandwidth	●	—	—
SoundBrilliance™ (streaming only, req. easyTek)	●	●	—
Adaptive streaming volume (streaming only, req. easyTek™)	●	—	—
Feedback cancellation	●	●	●
Speech and noise management (channels / steps)	48 / 7	32 / 5	24 / 3
SoundSmoothing™ (channels / steps)	48 / 3	32 / 3	24 / 1
Directional speech enhancement (channels / steps)	48 / 3	32 / 1	—
Individuality			
Sound equalizer (classes)	6	3	—
Data logging	●	●	●
Learning (classes)	6	3	1
Acclimatization manager	●	●	●
binax fit	●	●	●
Spatial Configurator (req. bilateral fitting and e2e 3.0)	●	●	—
Span (req. easyTek and easyTek App or Rocker switch)	●	●	—
Direction (req. easyTek and easyTek App)	●	●	—
Tinnitus Therapy			
Standard (handles / presets)	20 / 5	16 / 5	12 / 5
Ocean Waves (presets)	4	4	4

Features and Accessories

	7bx / 5bx / 3bx
Style Specific Features	
Ingress Protection Rating	IP67
Telecoil	●
AutoPhone™	●
Charging contacts	●
Battery Size	13
Battery door on/off function	●
Nanocoated housing	●
e2e wireless™ 3.0	●
Audio streaming	●
User controls coupling via e2e	●
Wireless programming via ConnexxLink™	●
Instrument configurations	
Flat cover	—
Push button	●
Rocker switch	●
Color conversion kit	○
Battery door – direct audio input	—
Battery door – child lock	—
Programming Accessories	
ConnexxLink	●
Programming pill	●
Accessories	
eCharger	○
easyPocket™	○
easyTek	○
Transmitter (req. easyTek)	○
VoiceLink™ (req. easyTek)	○
App	
easyTek App (req. easyTek)	○
touchControl App	●

● available ○ optional — not available

This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal blue lines across its entire width. The paper is otherwise completely empty, with no margins, text, or other markings.

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
AI-DI	Articulation Index - Directivity Index
IRIL	Input Related Interference Level
RTF	Reference Test Frequency

Standards

- ▶ All measurements with the 2 ccm coupler were performed according to ANSI S3.22-2009 and IEC 60118-7:2005.
- ▶ All measurements with an ear simulator were performed according to IEC 118-0/A1 and to DIN 45605 (frequency range).
- ▶ Extended frequency range up to 12 kHz for 7bx devices only.

WARNING

Choking hazard posed by small parts.

- ▶ This instrument is not intended for the fitting of infants, small children 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.

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.