

# Motion<sup>®</sup> SP primax

## Technical Data

7px

5px

3px



### Earhook

- 85 dB / 144 dB SPL  
(ear simulator)
- 82 dB / 140 dB SPL  
(2 ccm coupler)

Hearing  
Systems**SIEMENS**

# Motion SP primax | Technical Data

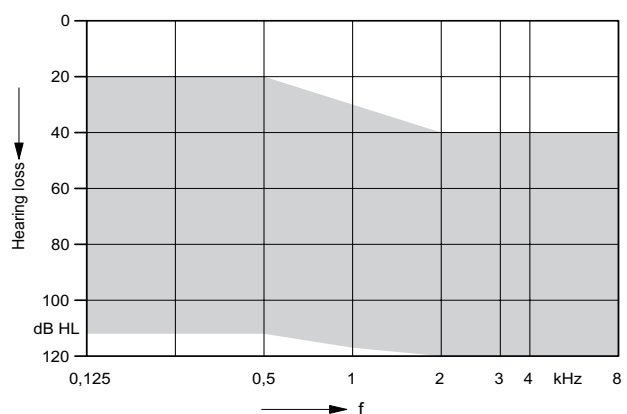
## Type

## Earhook undamped



	2 ccm coupler	Ear simulator
<b>Output sound pressure level</b>		
at 1.6 kHz	–	136 dB SPL
Peak	140 dB SPL	144 dB SPL
HFA-OSPL 90	130 dB SPL	–
<b>Gain</b>		
Full on gain (FOG) at 1.6 kHz	–	78 dB
Full on gain (Peak)	82 dB	85 dB
HFA-FOG	72 dB	–
Reference test gain	53 dB	62 dB
<b>Frequency, noise and directivity</b>		
Frequency range	100 - 5000 Hz	100 - 5100 Hz
Equivalent input noise	18 dB	18 dB
Total harmonic distortion at 500 / 800 / 1600 Hz	2 / 1 / 2 %	4 / 2 / 2 %
Tinnitus therapy broadband	94 dB	–
AI-DI	3.7 dB	
<b>Inductive coil sensitivity</b>		
MASL (1 mA/m) at 1.6 kHz	–	108 dB
HFA MASL (1 mA/m)	100 dB	–
HFA SPLITS (left/right)	111 / 111 dB	–
RSETS (left/right)	-2 / -2 dB	–
<b>AGC-O (fully activated)</b>		
Attack / release Time	3 / 90 ms	–
<b>Battery</b>		
Battery voltage	1.3 V	
Battery current drain	2.1 mA	
Battery life (cell zinc air)	~ 180 h	
Battery life (rechargeable)	–	
<b>IRIL IEC 118-13:2011 (bystander)</b>		
800-960 MHz	< -33 dB SPL	
1400-2000 MHz	< -7 dB SPL	
ANSI C63.19	M3 / T3	

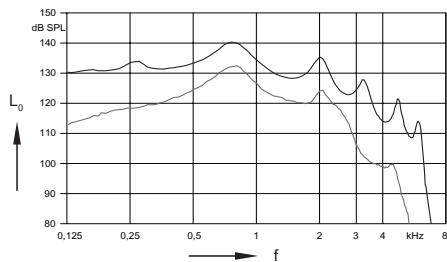
# Motion SP primax | Fitting Range



Earhook undamped

# Motion SP primax (Earhook undamped) | Basic Data

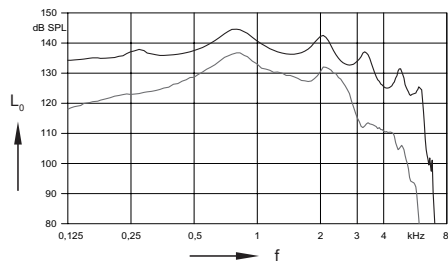
## 2 ccm coupler



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

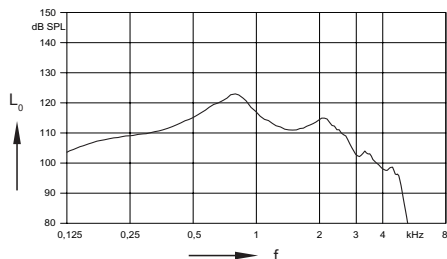
Full on gain  
( $L_1 = 50$  dB)

## Ear simulator

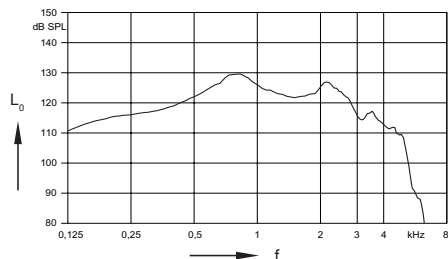


Output sound pressure level  
( $L_1 = 90$  dB)

Full on gain  
( $L_1 = 50$  dB)

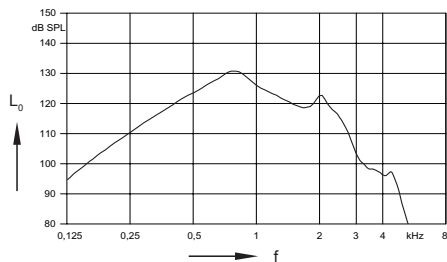


Frequency response  
( $L_1 = 60$  dB)



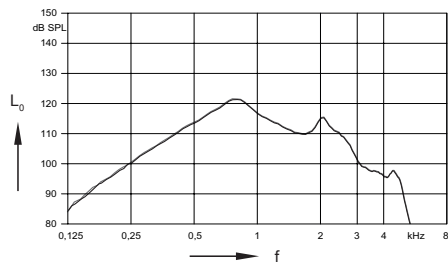
Basic acoustic response  
( $L_1 = 60$  dB)

## Inductive response



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

Full on gain  
( $L_1 = 50$  dB)



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

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

# Motion SP primax | Features and Accessories

	7px	5px	3px
<b>Audiology</b>			
<b>Signal processing</b> (channels) / <b>Gain/MPO</b> (handles)	24 / 16	24 / 16	24 / 12
<b>Hearing programs</b>	6	6	6
<b>SpeechMaster</b>	●	●	●
<b>HD Music</b> (presets)	3	1	1
<b>TwinPhone<sup>1)</sup></b>	●	●	●
<b>EchoShield</b>	●	—	—
<b>Wireless CROS/BICROS<sup>2)</sup></b>	●	●	●
<b>Directionality</b> (channels)	32	32	24
<b>Narrow Directionality<sup>1)</sup></b>	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■
<b>Directional microphone</b>	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■
<b>Spatial SpeechFocus<sup>1)</sup></b>	■ ■ ■ ■ ■	—	—
<b>SpeechFocus</b>	■ ■ ■ ■ ■	■ ■ ■ ■ ■	—
<b>TruEar™</b>	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■
<b>Frequency compression</b>	●	●	●
<b>Extended bandwidth</b>	—	—	—
<b>Feedback cancellation</b>	●	●	●
<b>eWindScreen binaural<sup>1)</sup></b>	●	●	—
<b>eWindScreen™</b> (steps)	3	3	on / off
<b>Noise Reduction</b> (channels / steps)	48 / 5	32 / 5	24 / 3
<b>Speech and noise management</b> (steps)	7	5	3
<b>SoundSmoothing™</b> (steps)	3	3	1
<b>Directional speech enhancement</b> (steps)	3	1	—
<b>Adaptive streaming volume<sup>3)</sup></b>	●	—	—
<b>SoundBrilliance™ <sup>3)</sup></b>	●	●	—
<b>Sound equalizer</b> (classes)	6	3	—
<b>Spatial Configurator<sup>1)</sup></b>	●	●	—
<b>Span<sup>4)</sup></b>	●	●	—
<b>Direction<sup>5)</sup></b>	●	●	—
<b>SoundBalance</b>	●	●	●
<b>Fitting</b>			
<b>Insitugram</b>	●	●	●
<b>Learning</b> (classes) / <b>Data logging</b>	6 / ●	3 / ●	1 / ●
<b>Acclimatization manager</b>	●	●	●
<b>Tinnitus</b>			
<b>Tinnitus therapy</b>			
<b>Static therapy signal</b> (handles / presets)	16 / 5	16 / 5	12 / 5
<b>Ocean Waves therapy signal</b> (presets)	4	4	4

# Motion SP primax | Features and Accessories

Style Specific Features	7px / 5px / 3px
Ingress Protection Rating	IP67
Telecoil	●
AutoPhone®	●
Charging contacts	—
Battery Size	675
Battery door on/off function	●
Nanocoated housing	●
e2e wireless® 3.0	●
Audio streaming with easyTek	●
User controls coupling via e2e	●
Wireless programming via ConnexxLink®	●
<b>Instrument configurations</b>	
Flat cover	—
Rotary volume control	—
Push button	●
Rocker switch / flat cover	● / ○
Color conversion kit	only top housing
Battery door – direct audio input	○
Battery door – child lock	○
LED status indicator	●
<b>Programming Accessories</b>	
ConnexxLink	●
Programming adapter CS44	●
Programming pill	—
<b>Accessories</b>	
miniPocket™	○
CROS Pure	○
eCharger™	—
easyPocket™	○
easyTek™	○
TV Transmitter (req. easyTek)	○
Transmitter (req. easyTek)	○
Voicelink™ (req. easyTek)	○
<b>App</b>	
easyTek App (req. easyTek)	○
touchControl™ App	○

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

<sup>1)</sup> req. bilateral fitting and e2e™ 3.0

<sup>2)</sup> req. CROS Pure accessory

<sup>3)</sup> streaming only, req. easyTek™

<sup>4)</sup> req. easyTek & easyTek App, touchControl App or Rocker switch

<sup>5)</sup> req. easyTek & easyTek App or touchControl App



# 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 if applicable.
- ▶ All measurements with an ear simulator were performed according to IEC 118-0/A1 and to DIN 45605 (frequency range) if applicable.
- ▶ Tinnitus therapy 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 following ear pieces were used:
  - Earhook

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.

### Legal Manufacturer

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2/17 2.0 SI/17278-17



### 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.

Only for Motion SP with standard battery door:



### 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.

Only for Motion SP with child-lock battery door:



### Warning

Choking hazard posed by small parts.

- ▶ Infants, children under 3 years and persons of mental incapacity must not wear the hearing instrument without appropriate supervision.
- ▶ Acoustic coupling tube and earpiece must not be detachable by the child.
- ▶ The diameter of the earpiece is recommended to be in the range of 32 mm and may enclose the outer ear.
- ▶ Demonstrate and explain the battery door locking mechanism to the child's parents or caretaker.