

# ORION SP

## Dijital Programlanabilir İşitme Cihazı



82 dB/140 dB SPL ,16 kanal 32 bant  
(8 frekans bandı, 24 kompresyon bandı)

PC Yüksek frekansta maksimum çıkış

MPO Alçak frekansta maksimum çıkış

TC Tını kontrol

AGC Otomatik Kazanç Kontrol

675 numara pil

Programlanabilir ikili düğme  
Çift mikrofon

Frekans baskılama

Feedback yönetimi

Gürültü azaltma

Rüzgar kalkanı

Tinnitus maskeleyici

Veri kaydı

IP67 sertifikalı (toz geçirmez, suya dayanıklı) T-Coil

FM uyumu

Pil kapağı ile açma kapama özelliği

VC (manuel ses kontrol)

## ORION SP



82 dB/140 dB SPL 16 kanal 32 bant  
(8 frekans bandı, 24 kompresyon bandı)

Nanokaplama kabin

e2e kablosuz iletişim

Kablosuz programlama

Uyarı tonları

4 program

### Aksesuarlar

Easypocket

ConnexxLink

Standart boynuz

Küçük boynuz

FM pabucu

# Technical Data

## Orion™ SP



### Earhook

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

### Key features


- Super power
- Wireless functionality
- Great audiological performance

## Data Sheet

[www.siemens.com/hearing](http://www.siemens.com/hearing)

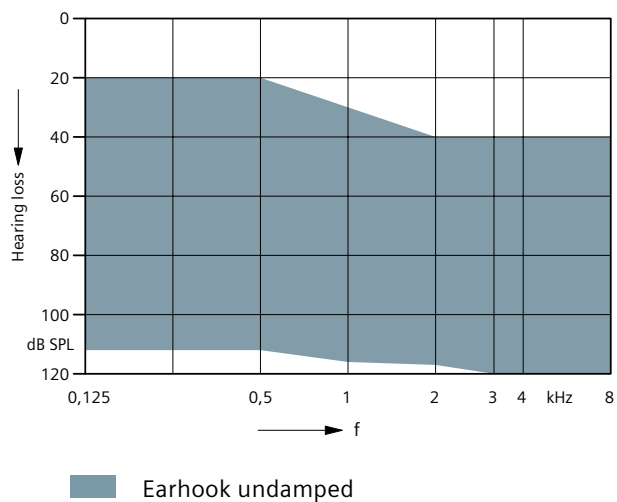
**SIEMENS**

## Orion SP · 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 - 4800 Hz	100 - 4900 Hz
Equivalent input noise	18 dB	18 dB
Total harmonic distortion at 500 / 800 / 1600 Hz	2 / 1 / 2 %	4 / 2 / 2 %
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)	108 / 107 dB	–
RSETS (left/right)	-5 / -6 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	< -34 dB SPL	
1400 - 2000 MHz	< -14 dB SPL	
ANSI C63.19	M4 / T3	

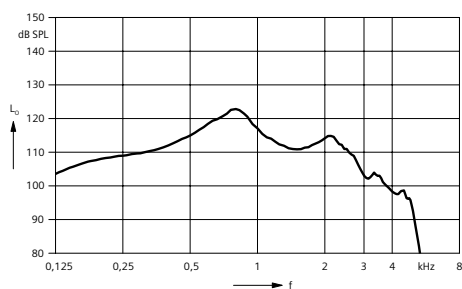
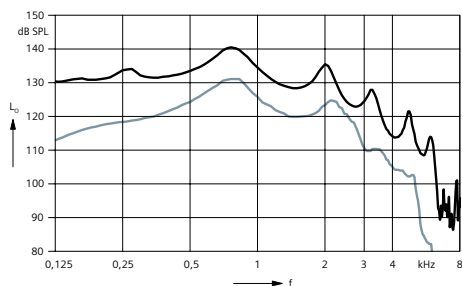
# Fitting Range

## Orion SP

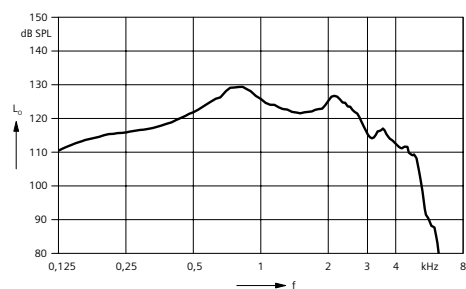
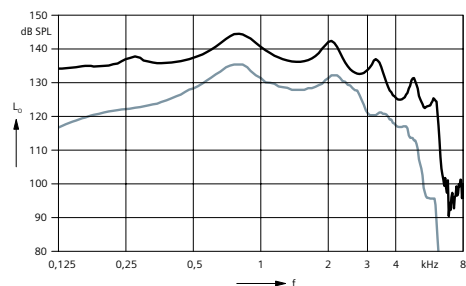


# Orion SP (Earhook undamped) · Basic Data

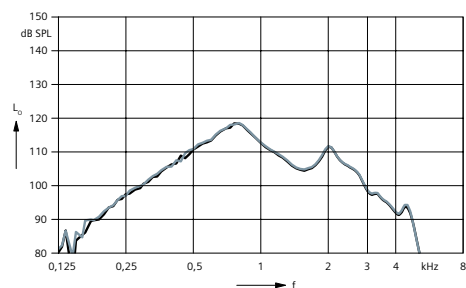
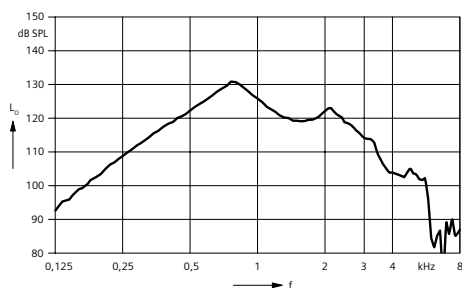
## 2 ccm coupler



## Ear simulator



## Inductive response



## Features and Accessories

Audiological features	Orion SP
<b>Better hearing</b>	
Automatic directional microphone (channels)	16
Directional speech enhancement	—
High res. SpeechFocus / automatic	—
Frequency compression	●
<b>Sound comfort</b>	
Feedback cancellation	●
Speech and Noise Management (steps)	3
SoundSmoothing™ (steps)	—
eWindScreen™ (steps)	on / off
SoundBrilliance™ (steps)	—
Tinnitus noiser (channels)	4
<b>Fitting/Individuality</b>	
Sound equalizer (classes)	—
Learning (classes)	—
Data logging	●
ConnexxFit™	●
Acclimatization Manager	—
<b>Basic features</b>	
Number of channels / handles	16 / 8
Extended bandwidth	—
Ingress Protection Rating	IP67
T-coil	●
AutoPhone™	—
Charging contacts	—
Battery size	675
Battery door on / off function	●
Battery door lock	○
Nanocoated housing	●
e2e wireless™ 2.0	●
Audio streaming	—
User control coupling via e2e	●
Wireless programming via ConnexxLink™	●

## Features and Accessories

User control	Orion SP
	Rocker switch + Push button
Volume change	●
Program change	●
Alert tones	●
Number of programs	4
Accessories	
Color conversion kits	only top housing
eCharger	—
Tek™	—
miniTek™	—
ProPocket™	●
ePen™	●
easyPocket™	●
ConnexxLink™	●
Programming pill	—
LifeTube	—
Standard earhook	●
Small earhook	●
Eyeglass adapter	—
Audioshoe	●

● available   ○ optional   — not available

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# 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
AI-DI	Articulation Index Directivity Index
MASL	Magneto Acoustical Sensitivity Level
SPLITS	Coupler SPL for an Inductive Telephone Simulator
RSETS	Relative Equivalent Telephone Sensitivity
AGC-O	Automatic Gain Control - Output controlled
IRIL	Input Related Interference Level

## 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).
- ▶ The following ear pieces were used:
  - Earhook

### 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.

Find the current issue of this document under: <http://factsandfigures.hearing-siemens.com>