

Orion 2 P

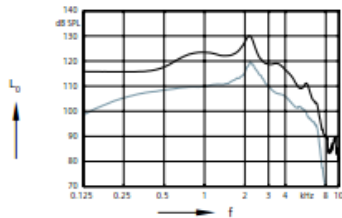
70 dB/130 dB SPL



Dijital Programlanabilir işitme cihazı

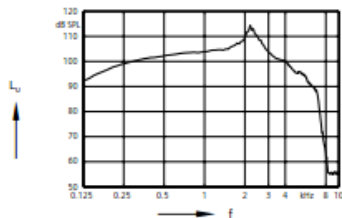
- 16 kanal, 32 bant (8 frekans bandı, 24 kompresyon bandı)
- TC Ses tını kontrolü
- PC Yüksek frekansta maksimum çıkış
- MPO Alçak frekansta maksimum çıkış
- AGC Otomatik kazanç kontrol
- Feedback yönetimi
- 2 mikrofonlu
- FM uyumlu
- Ses kontrol (otomatik ve manuel)
- Gürültü azaltma
- Frekans sıkıştırma
- Rüzgar kalkanı
- Konuşma ve gürültü yönetimi
- Ses yumuşatma
- Telecoil
- Veri kaydı
- Uyum sağlama yöneticisi
- Tinnitus terapi sinyali
- IP67
- Nano kaplama kabin
- Kablosuz programlama
- easyTek kumanda ile ses aktarımı
- touchcontrol uygulaması ile akıllı telefonda kumanda edilebilme
- easyTek Uygulaması ile akıllı telefonda kumanda edilebilme

2 ccm coupler



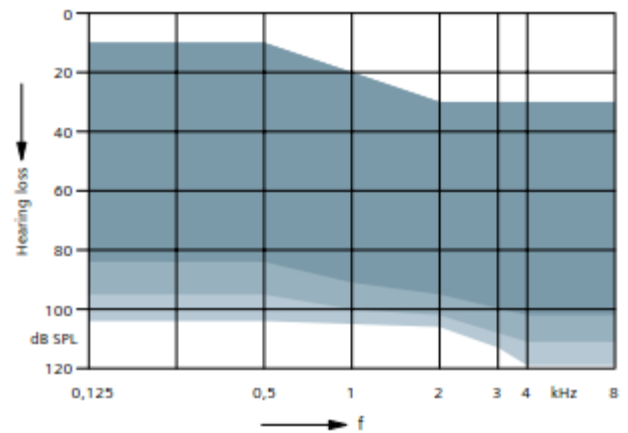
Output sound pressure level
($L_p = 90$ dB)

Full on gain
($L_p = 50$ dB)



Frequency response
($L_p = 60$ dB)

Orion 2 P



LifeTube double
+ Earhook damped
+ Earhook undamped

Technical Data

Orion 2™



S

M

P

Orion 2 S

Earhook damped

- 62 dB / 132 dB SPL (ear simulator)
- 55 dB / 124 dB SPL (2 ccm coupler)

LifeTube

- 53 dB / 125 dB SPL (ear simulator)
- 45 dB / 124 dB SPL (2 ccm coupler)

Orion 2 M

Earhook damped

- 68 dB / 136 dB SPL (ear simulator)
- 60 dB / 130 dB SPL (2 ccm coupler)

LifeTube

- 62 dB / 128 dB SPL (ear simulator)
- 53 dB / 125 dB SPL (2 ccm coupler)

Orion 2 P

Earhook damped

- 75 dB / 136 dB SPL (ear simulator)
- 70 dB / 130 dB SPL (2 ccm coupler)

Earhook undamped



- 78 dB / 140 dB SPL (ear simulator)
- 75 dB / 136 dB SPL (2 ccm coupler)

LifeTube

- 66 dB / 129 dB SPL (ear simulator)
- 65 dB / 125 dB SPL (2 ccm coupler)

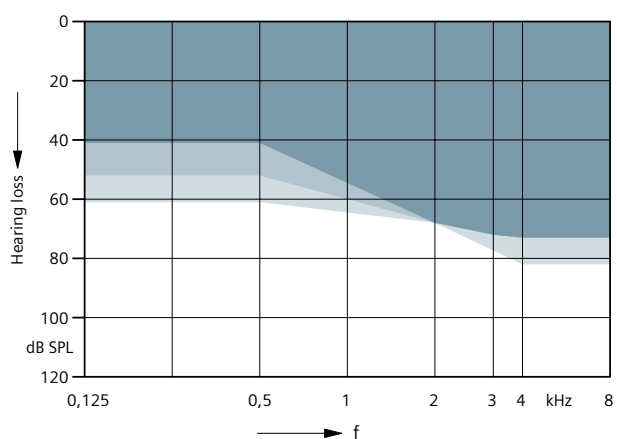
Data Sheet

Orion 2 P · 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	–	130 dB SPL	–	132 dB SPL	–	119 dB SPL
Peak	130 dB SPL	136 dB SPL	136 dB SPL	140 dB SPL	125 dB SPL	129 dB SPL
HFA-OSPL 90	123 dB SPL	–	128 dB SPL	–	114 dB SPL	–
Gain						
Full on gain (FOG) at 1.6 kHz	–	68 dB	–	70 dB	–	53 dB
Full on gain (Peak)	70 dB	75 dB	75 dB	78 dB	65 dB	66 dB
HFA-FOG	62 dB	–	66 dB	–	49 dB	–
Reference test gain	47 dB	54 dB	50 dB	57 dB	37 dB	43 dB
Frequency, noise and directivity						
Frequency range	100-6900 Hz	150-7000 Hz	100-5800 Hz	150-6500 Hz	100-5800 Hz	100-6000 Hz
Equivalent input noise	19 dB SPL	19 dB SPL	19 dB SPL	19 dB SPL	28 dB SPL	28 dB SPL
Total harmonic distortion at 500 / 800 / 1600 Hz	2 / 1 / 1 %	2 / 1 / 1 %	3 / 2 / 1 %	5 / 2 / 2 %	1 / 1 / 2 %	1 / 2 / 3 %
Tinnitus noiser broadband	80 dB SPL	–	80 dB SPL	–	80 dB SPL	–
AI-DI	3.5 dB		3.5 dB		3.5 dB	
Inductive coil sensitivity						
MASL (1 mA/m) at 1.6 kHz	–	99 dB SPL	–	99 dB SPL	–	83 dB SPL
HFA MASL (1 mA/m)	92 dB SPL	–	95 dB SPL	–	80 dB SPL	–
HFA SPLITS (left/right)	105 / 105 dB SPL	–	108 / 108 dB SPL	–	96 / 96 dB SPL	–
RSETS (left/right)	-2 / -2 dB	–	-2 / -2 dB	–	-1 / -1 dB	–
Battery						
Battery voltage	1.3 V		1.3 V		1.3 V	
Battery current drain	1.0 mA		1.2 mA		1.3 mA	
Battery life (cell zinc air)	~220 h		~190 h		~170 h	
Battery life (rechargeable)	–		–		–	
IRIL IEC 118-13:2004 (bystander)						
800-960 MHz	<-23 dB SPL		<-23 dB SPL		<-23 dB SPL	
1400-2000 MHz	<-15 dB SPL		<-15 dB SPL		<-15 dB SPL	
ANSI C63.19	M4 / T2		M4 / T2		M4 / T2	

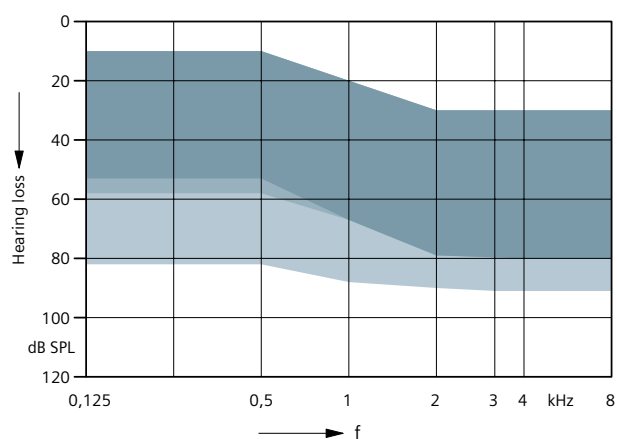
Fitting Range

Orion 2 S



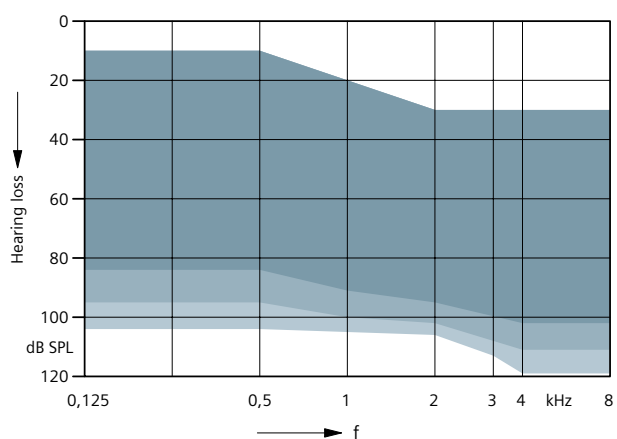
LifeTube open
LifeTube double
Earhook

Orion 2 M



LifeTube open
LifeTube double
Earhook

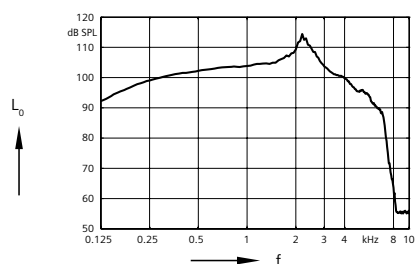
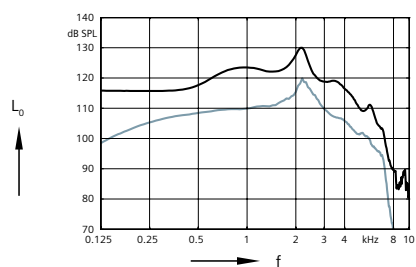
Orion 2 P



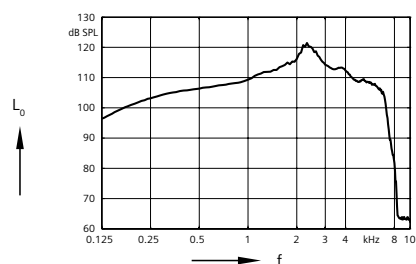
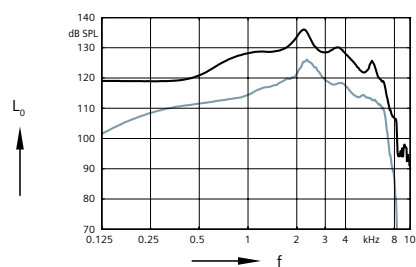
LifeTube double
Earhook damped
Earhook undamped

Orion 2 P (Earhook damped) · Basic Data

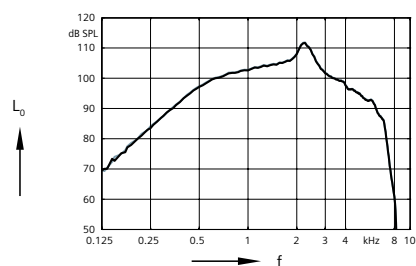
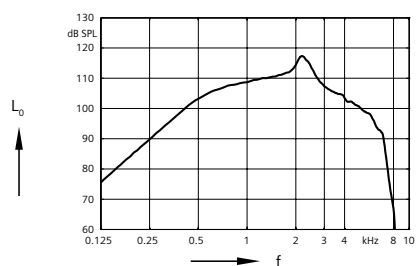
2 ccm coupler



Ear simulator

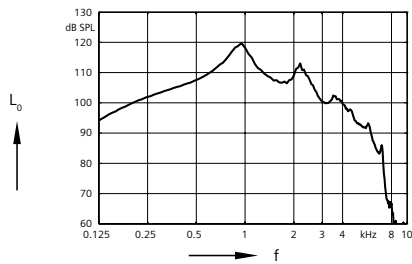
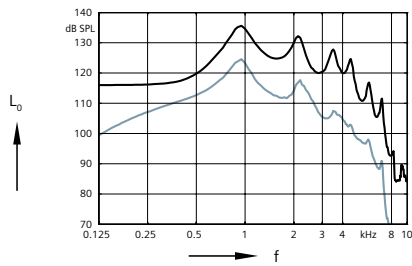


Inductive response

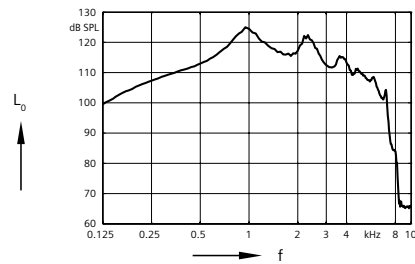
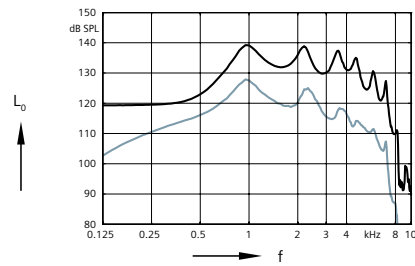


Orion 2 P (Earhook undamped) · Basic Data

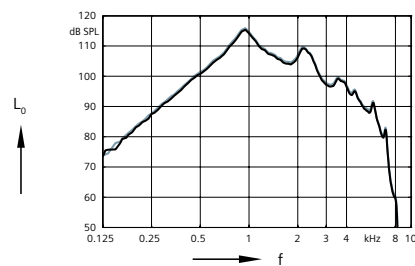
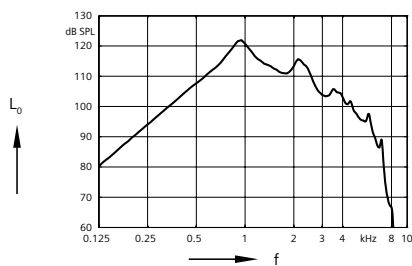
2 ccm coupler



Ear simulator

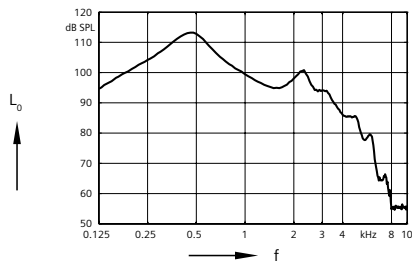
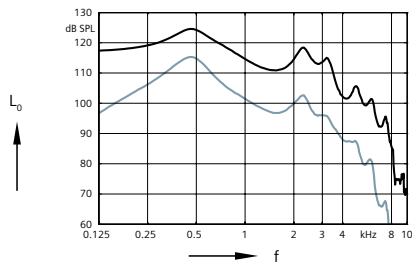


Inductive response

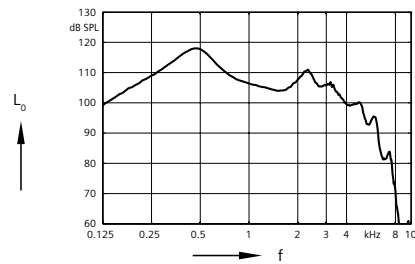
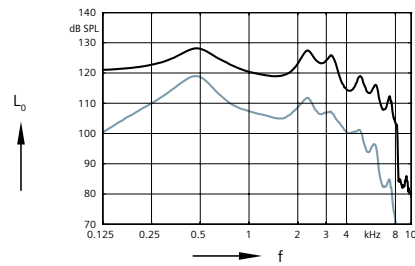


Orion 2 P (LifeTube) · Basic Data

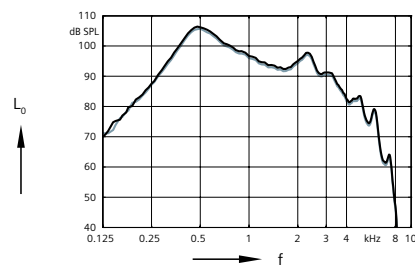
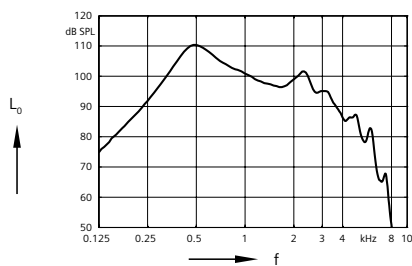
2 ccm coupler



Ear simulator



Inductive response



Features and Accessories

	Orion 2 SMP
General	
Signal processing (channels)	16
Gain/MPO (handles)	8
Hearing programs	4
touchControl™ App (iOS™ / Android™)	●
Audibility	
Directional microphone (channels)	16
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)	on / off
Extended bandwidth	—
SoundBrilliance™ (streaming only, req. easyTek)	—
Adaptive streaming volume (streaming only, req. easyTek™)	—
Feedback cancellation	●
Speech and noise management (channels / steps)	16 / 3
SoundSmoothing™ (channels / steps)	16 / on/off
Directional speech enhancement (channels / steps)	—
Individuality	
Sound equalizer (classes)	—
Data logging	●
Learning (classes)	—
Acclimatization manager	●
ConnexxFit	●
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)	4 / 1
Ocean Waves (presets)	—

Features and Accessories

	Orion 2		
	S	M	P
Style Specific Features			
Ingress Protection Rating	IP67	IP67	IP67
Telecoil	—	●	●
AutoPhone™	—	—	—
Charging contacts	—	—	—
Battery Size	312	13	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	—	—	—
Tamperproof battery door	—	○	○
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

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 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 following ear pieces were used:
 - Earhook
 - LifeTube

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.