

Orion 2 RIC 10

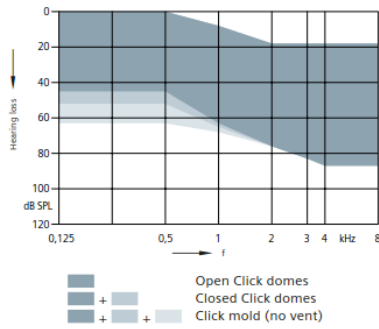
65 dB/123 dB SPL



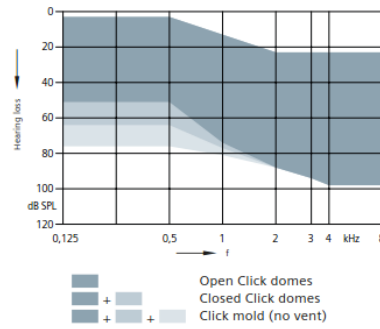
Dijital Programlanabilir işitme cihazı

- 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
- Ses kontrol (otomatik ve manuel)
- Gürültü azaltma
- Frekans sıkıştırma
- Rüzgar kalkanı
- Konuşma ve gürültü yönetimi
- Ses yumuşatma
- Veri kaydı
- Uyum sağlama yöneticisi
- Tinnitus terapi sinyali
- IP67
- Nano kaplama kabin
- touchcontrol uygulaması ile akıllı telefondan kumanda edilebilme

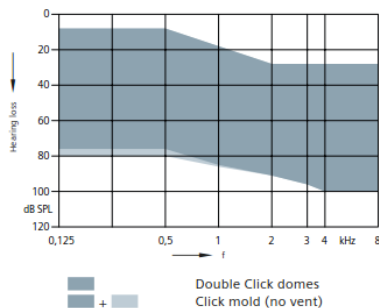
S-Receiver



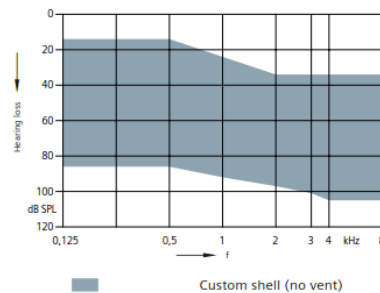
M-Receiver



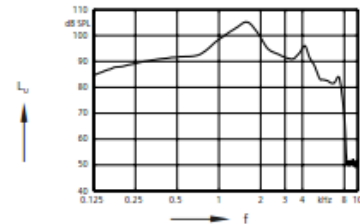
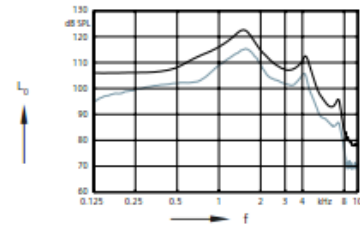
P-Receiver



HP-Receiver



2 ccm coupler



Technical Data

Orion 2 RIC 10™



S-Receiver

- 55 dB / 118 dB SPL (ear simulator)
- 45 dB / 108 dB SPL (2 ccm coupler)

M-Receiver

- 65 dB / 123 dB SPL (ear simulator)
- 55 dB / 113 dB SPL (2 ccm coupler)

P-Receiver

- 70 dB / 126 dB SPL (ear simulator)
- 60 dB / 118 dB SPL (2 ccm coupler)

HP-Receiver



- 72 dB / 130 dB SPL (ear simulator)
- 65 dB / 123 dB SPL (2 ccm coupler)

Data Sheet

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SIEMENS

Orion 2 RIC 10 · Technical Data

Type	S-Receiver		M-Receiver	
				
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level				
at 1.6 kHz	–	108 dB SPL	–	116 dB SPL
Peak	108 dB SPL	118 dB SPL	113 dB SPL	123 dB SPL
HFA-OSPL 90	102 dB SPL	–	107 dB SPL	–
Gain				
Full on gain (FOG) at 1.6 kHz	–	44 dB	–	52 dB
Full on gain (Peak)	45 dB	55 dB	55 dB	65 dB
HFA-FOG	37 dB	–	44 dB	–
Reference test gain	25 dB	33 dB	30 dB	41 dB
Frequency, noise and directivity				
Frequency range	100-8200 Hz	100-8300 Hz	100-8000 Hz	100-8200 Hz
Equivalent input noise	19 dB SPL	22 dB SPL	19 dB SPL	22 dB SPL
Total harmonic distortion at 500 / 800 / 1600 Hz	1 / 1 / 1 %	1 / 1 / 2 %	1 / 2 / 1 %	2 / 3 / 2 %
Tinnitus noiser broadband	65 dB SPL	–	70 dB SPL	–
AI-DI	3.5 dB		3.5 dB	
Inductive coil sensitivity				
MASL (1 mA/m) at 1.6 kHz	–	–	–	–
HFA MASL (1 mA/m)	–	–	–	–
HFA SPLITS (left/right)	–	–	–	–
RSETS (left/right)	–	–	–	–
Battery				
Battery voltage	1.3 V		1.3 V	
Battery current drain	0.9 mA		1.0 mA	
Battery life (cell zinc air)	~75 h		~70 h	
Battery life (rechargeable)	–		–	
IRIL IEC 118-13:2004 (bystander)				
800-960 MHz	<-27 dB SPL		<-27 dB SPL	
1400-2000 MHz	<-24 dB SPL		<-24 dB SPL	
ANSI C63.19	M4		M4	

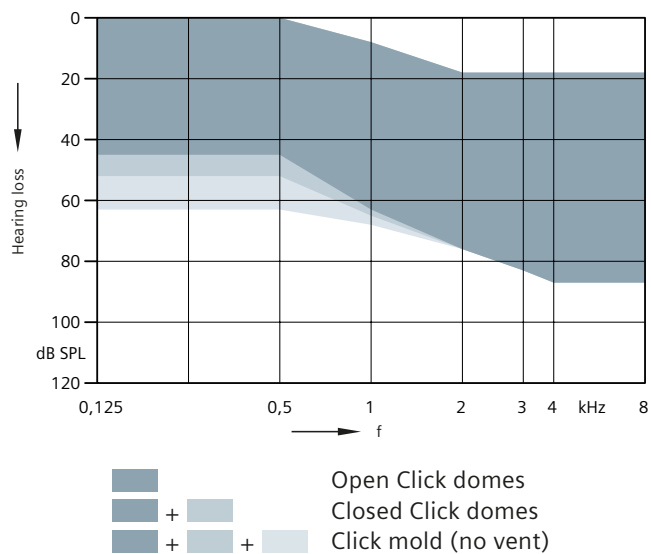
Orion 2 RIC 10 · Technical Data

Type	P-Receiver		HP-Receiver	
				
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level				
at 1.6 kHz	–	123 dB SPL	–	119 dB SPL*
Peak	118 dB SPL	126 dB SPL	123 dB SPL	130 dB SPL
HFA-OSPL 90	112 dB SPL	–	115 dB SPL	–
Gain				
Full on gain (FOG) at 1.6 kHz	–	61 dB	–	63 dB*
Full on gain (Peak)	60 dB	70 dB	65 dB	72 dB
HFA-FOG	51 dB	–	58 dB	–
Reference test gain	35 dB	48 dB	38 dB	44 dB*
Frequency, noise and directivity				
Frequency range	100-7800 Hz	120-8200 Hz	100-7400 Hz	120-8100 Hz
Equivalent input noise	19 dB SPL	22 dB SPL	15 dB SPL	18 dB SPL
Total harmonic distortion at 500 / 800 / 1600 Hz	1 / 2 / 1 %	1 / 2 / 1 %	1 / 1 / 1 %	2 / 2 / 1 %
Tinnitus noiser broadband	75 dB SPL	–	85 dB SPL	–
AI-DI	3.5 dB		3.5 dB	
Inductive coil sensitivity				
MASL (1 mA/m) at 1.6 kHz	–	–	–	–
HFA MASL (1 mA/m)	–	–	–	–
HFA SPLITS (left/right)	–	–	–	–
RSETS (left/right)	–	–	–	–
Battery				
Battery voltage	1.3 V		1.3 V	
Battery current drain	0.9 mA		0.9 mA	
Battery life (cell zinc air)	~75 h		~75 h	
Battery life (rechargeable)	–		–	
IRIL IEC 118-13:2004 (bystander)				
800-960 MHz	<-27 dB SPL		<-27 dB SPL	
1400-2000 MHz	<-24 dB SPL		<-24 dB SPL	
ANSI C63.19	M4		M4	

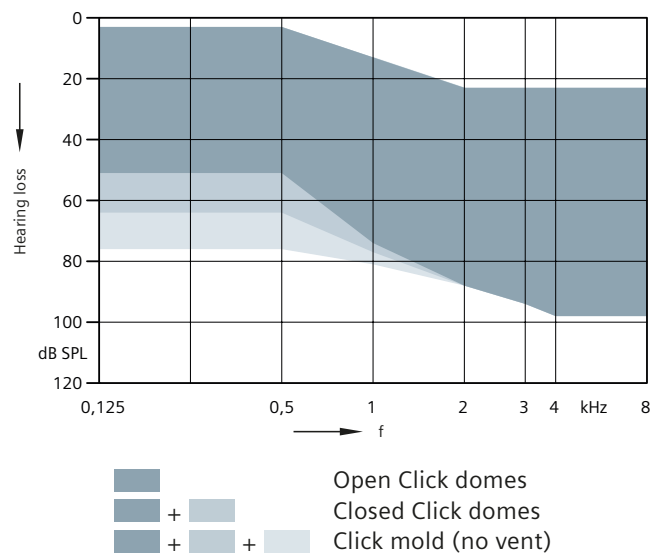
* measured at 2.5 kHz RTF

Fitting Range

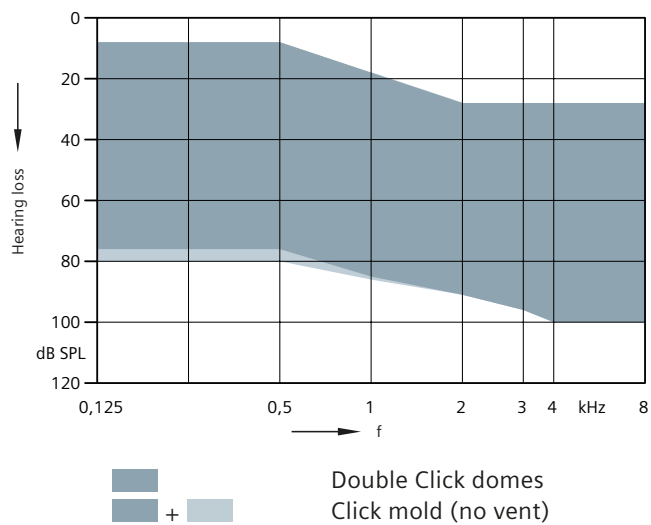
S-Receiver



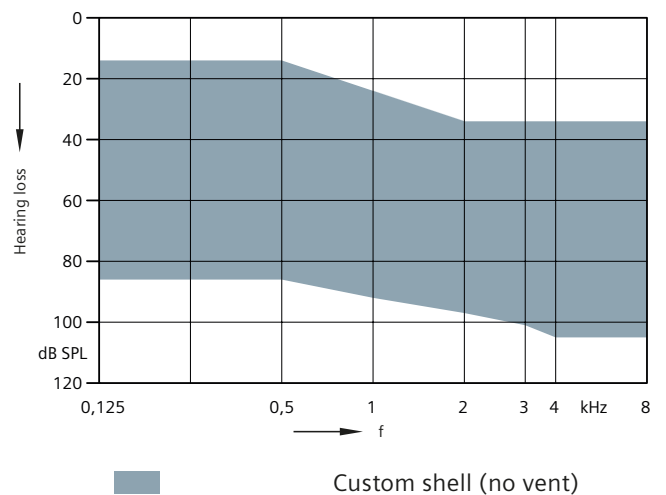
M-Receiver



P-Receiver

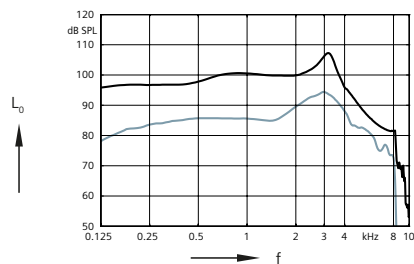


HP-Receiver



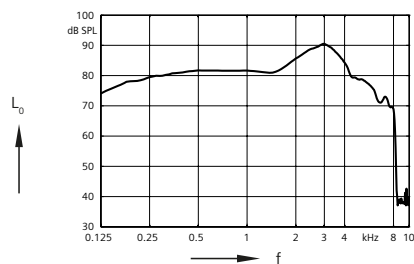
S-Receiver (Closed Click Dome) · Basic Data

2 ccm coupler



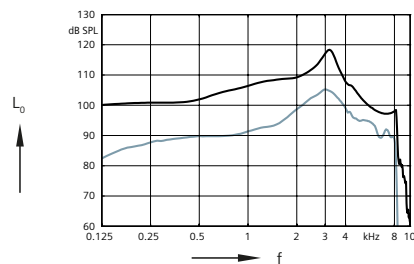
Output sound
pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)



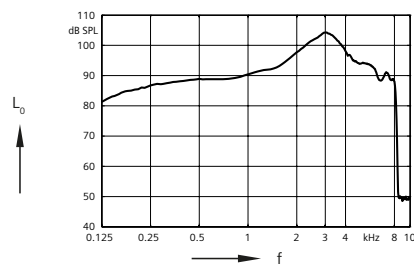
Frequency response
($L_1 = 60$ dB)

Ear simulator



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

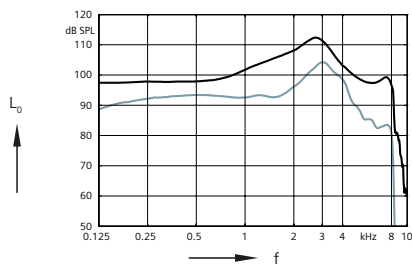
Full on gain
($L_1 = 50$ dB)



Basic acoustic
response
($L_1 = 60$ dB)

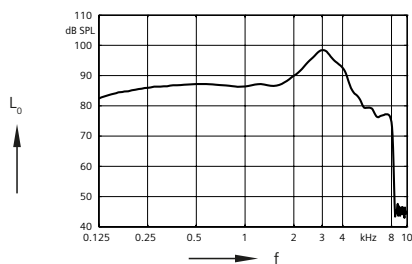
M-Receiver (Closed Click Dome) · Basic Data

2 ccm coupler



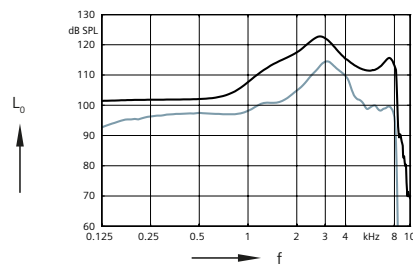
Output sound
pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)



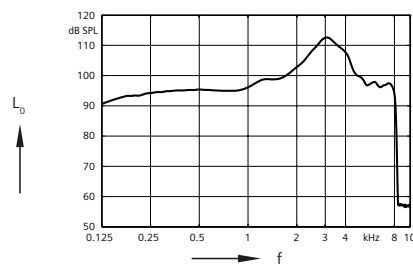
Frequency response
($L_1 = 60$ dB)

Ear simulator



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

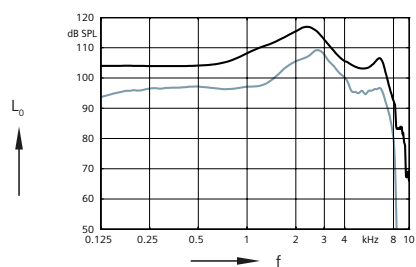
Full on gain
($L_1 = 50$ dB)



Basic acoustic
response
($L_1 = 60$ dB)

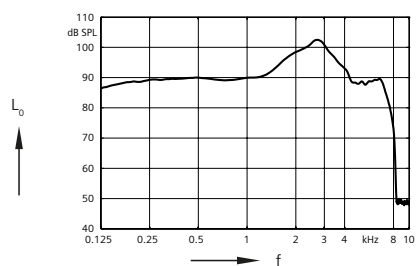
P-Receiver (Click Mold) · Basic Data

2 ccm coupler



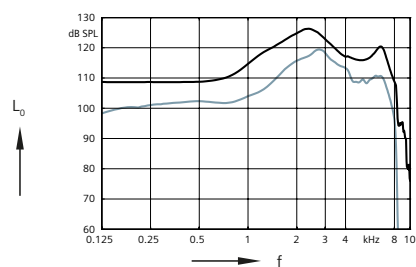
Output sound
pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)



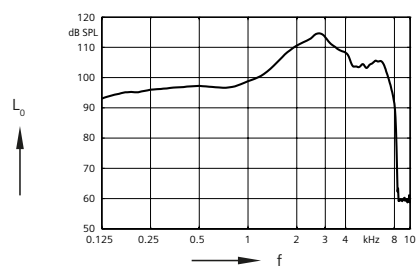
Frequency response
($L_1 = 60$ dB)

Ear simulator



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

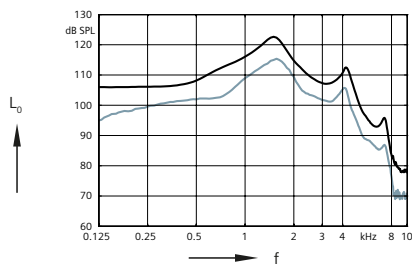
Full on gain
($L_1 = 50$ dB)



Basic acoustic
response
($L_1 = 60$ dB)

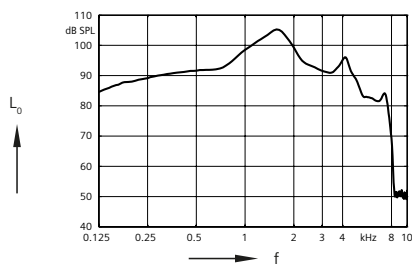
HP-Receiver (Custom Shell) · Basic Data

2 ccm coupler



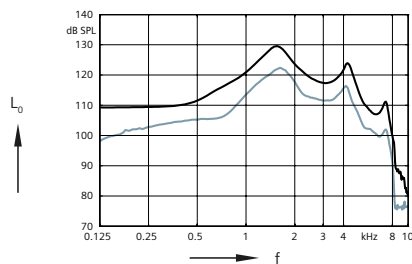
Output sound
pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)



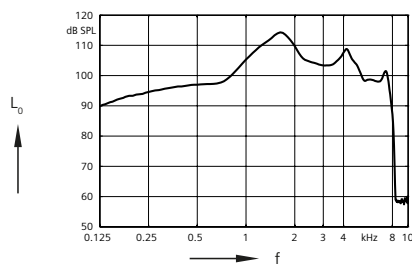
Frequency response
($L_1 = 60$ dB)

Ear simulator



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

Full on gain
($L_1 = 50$ dB)



Basic acoustic
response
($L_1 = 60$ dB)

Features and Accessories

	Orion 2 RIC 10
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 RIC 10
Style Specific Features	
Ingress Protection Rating	IP67
Telecoil	—
AutoPhone™	—
Charging contacts	—
Battery Size	10
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

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:
 - S-Receiver Unit and M-Receiver Unit: Closed Click domes
 - P-Receiver Unit: Click Mold
 - HP-Receiver Unit: Custom Shell

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.