

Pure® primax

Technical Data

7рх

5рх

3рх



S-Receiver

- 56 dB / 119 dB SPL (ear simulator)
- 45 dB / 108 dB SPL (2 ccm coupler)

M-Receiver

- 70 dB / 129 dB SPL (ear simulator)
- 60 dB / 119 dB SPL (2 ccm coupler)

P-Receiver

- 80 dB / 134 dB SPL (ear simulator)
- 70 dB / 124 dB SPL (2 ccm coupler)

HP-Receiver

- 82 dB / 138 dB SPL (ear simulator)
- 75 dB / 130 dB SPL (2 ccm coupler)

Hearing Systems



Pure primax | Technical Data

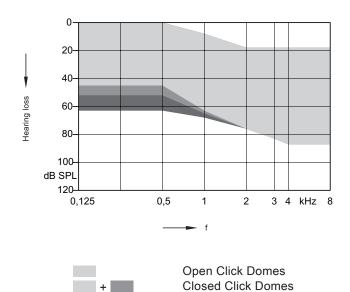
Туре	S-Receiver		M-Receiver		
Output sound pressure level	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator	
at 1.6 kHz	_	109 dB SPL	_	122 dB SPL	
Peak	108 dB SPL	119 dB SPL	119 dB SPL	129 dB SPL	
HFA-OSPL 90	102 dB SPL	-	114 dB SPL	- 120 db 01 L	
Gain	102 UD 01 L	_	TIT GD OIL	_	
Full on gain (FOG) at 1.6 kHz	_	43 dB	_	55 dB	
Full on gain (Peak)	45 dB	56 dB	60 dB	70 dB	
HFA-FOG	37 dB	_	50 dB	- TO GD	
Reference test gain	25 dB	34 dB	37 dB	47 dB	
Frequency, noise and directivity	20 02	3.42	0. 42		
Frequency range 7px 5px / 3px	100-10000 Hz 100-8200 Hz	100-10500 Hz 100-8300 Hz	100-8800 Hz 100-8200 Hz	100-10000 Hz 100-8300 Hz	
Equivalent input noise	18 dB SPL	22 dB SPL	19 dB SPL	23 dB SPL	
Total harmonic distortion at 500 / 800 / 1600 Hz	1/1/1%	1/1/2%	1/1/2%	1/3/3%	
Tinnitus therapy broadband	65 dB	_	70 dB	_	
AI-DI	3.8 dB		3.8 dB		
Inductive coil sensitivity					
MASL (1 mA/m) at 1.6 kHz	-	75 dB SPL	_	85 dB SPL	
HFA MASL (1 mA/m)	68 dB SPL	_	80 dB SPL	_	
HFA SPLITS (left/right)	84 / 84 dB SPL	_	96 / 96 dB SPL	_	
RSETS (left/right)	-1 / -1 dB SPL	_	-1 / -1 dB SPL	_	
Battery					
Battery voltage	1.3 V		1.3 V		
Battery current drain	0.9 mA		1.0 mA		
Battery life (cell zinc air)	~130 h		~120 h		
Battery life (rechargeable)	12 -	16 h	-	_	
IRIL IEC 118-13:2011 (bystander)					
800-960 MHz	<-6 d	<-6 dB SPL		<-6 dB SPL	
1400-2000 MHz	<-24 c	<-24 dB SPL		<-24 dB SPL	
ANSI C63.19	M4	M4 / T4		M4 / T4	

Pure primax | Technical Data

Туре	P-Receiver		HP-Receiver		
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator	
Output sound pressure level		400 ID ODI		407 ID ODI	
at 1.6 kHz		128 dB SPL	-	137 dB SPL	
Peak	124 dB SPL	134 dB SPL	130 dB SPL	138 dB SPL	
HFA-OSPL 90	120 dB SPL	_	124 dB SPL	_	
Gain					
Full on gain (FOG) at 1.6 kHz		70 dB	-	82 dB	
Full on gain (Peak)	70 dB	80 dB	75 dB	82 dB	
HFA-FOG	63 dB	_	68 dB	_	
Reference test gain	43 dB	53 dB	48 dB	62 dB	
Frequency, noise and directivity					
Frequency range 7px 5px / 3px	100-7800 Hz 100-7800 Hz	100-8100 Hz 100-7800 Hz	100-7500 Hz 100-7400 Hz	250-5200 Hz 250-5200 Hz	
Equivalent input noise	18 dB SPL	21 dB SPL	18 dB SPL	12 dB SPL	
Total harmonic distortion at 500 / 800 / 1600 Hz	2/2/1%	3/3/2%	1/2/1%	1/1/1%	
Tinnitus therapy broadband	75 dB	_	85 dB	_	
AI-DI	3.8 dB		3.8 dB		
Inductive coil sensitivity					
MASL (1 mA/m) at 1.6 kHz	-	100 dB SPL	-	114 dB SPL	
HFA MASL (1 mA/m)	91 dB SPL	_	99 dB SPL	_	
HFA SPLITS (left/right)	102 / 102 dB SPL	_	107 / 107 dB SPL	_	
RSETS (left/right)	-1 / -1 dB SPL	_	-1 / -1 dB SPL	_	
Battery					
Battery voltage	1.3	3 V	1.3	3 V	
Battery current drain	1.0 mA		1.1 mA		
Battery life (cell zinc air)	~120 h		~110 h		
Battery life (rechargeable)	-	_	_	-	
IRIL IEC 118-13:2011 (bystander)					
800-960 MHz	<-6 d	<-6 dB SPL		<-6 dB SPL	
1400-2000 MHz		<-24 dB SPL		<-24 dB SPL	
ANSI C63.19		M4 / T4		M4 / T4	

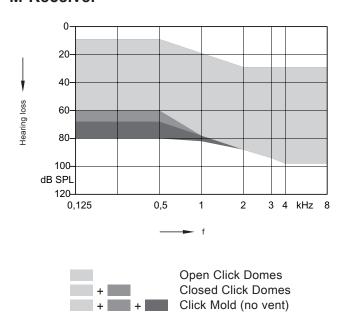
Pure primax | Fitting Range

S-Receiver

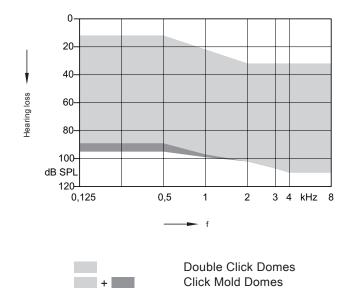


Click Mold (no vent)

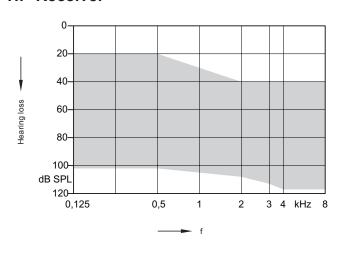
M-Receiver



P-Receiver



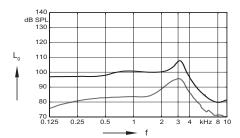
HP-Receiver



Custom Shell (no vent)

S-Receiver (Closed Click Dome) | Basic Data

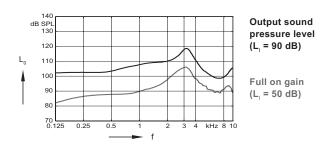
2 ccm coupler

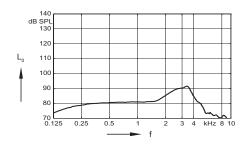


Output sound pressure level $(L_{i} = 90 \text{ dB})$

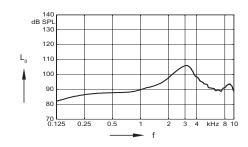
Full on gain (L = 50 dB)

Ear simulator



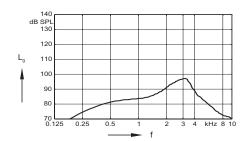


Frequency response (L_| = 60 dB)

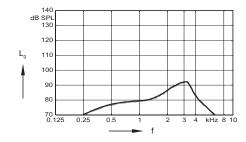


Basic acoustic response (L = 60 dB)

Inductive response



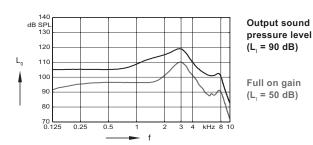
Inductive response (H = 10 mA/m)



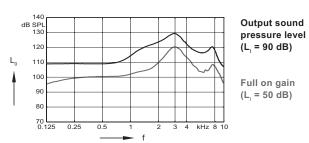
SPLITS curve left (H = 31.6 mA/m)

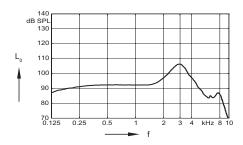
M-Receiver (Closed Click Dome) | Basic Data

2 ccm coupler

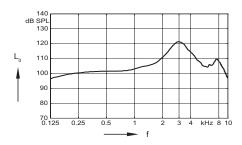


Ear simulator



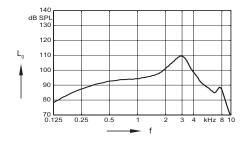


Frequency response (L_| = 60 dB)

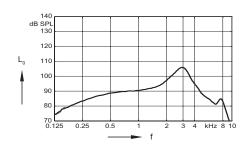


Basic acoustic response (L = 60 dB)

Inductive response



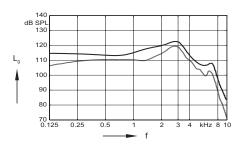
Inductive response (H = 10 mA/m)



SPLITS curve left (H = 31.6 mA/m)

P-Receiver (Click mold) | Basic Data

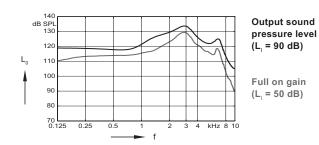
2 ccm coupler

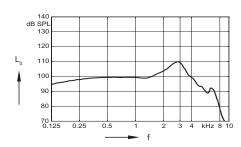


Output sound pressure level $(L_1 = 90 \text{ dB})$

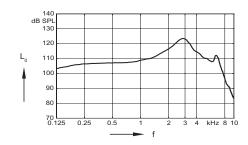
Full on gain (L = 50 dB)

Ear simulator



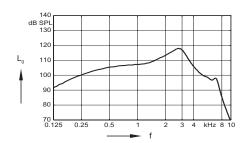


Frequency response (L_| = 60 dB)

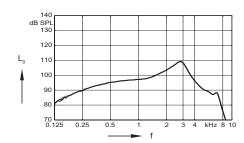


Basic acoustic response (L = 60 dB)

Inductive response



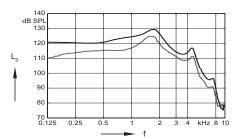
Inductive response (H = 10 mA/m)



SPLITS curve left (H = 31.6 mA/m)

HP-Receiver (Custom Shell) | Basic Data

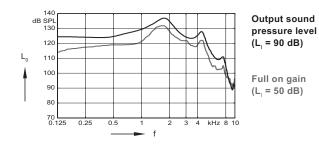
2 ccm coupler

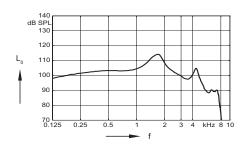


Output sound pressure level $(L_1 = 90 \text{ dB})$

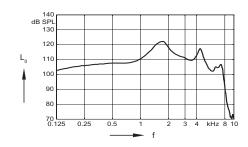
Full on gain (L = 50 dB)

Ear simulator



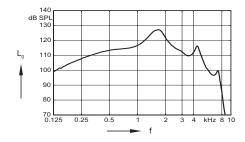


Frequency response (L_| = 60 dB)

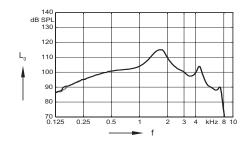


Basic acoustic response (L = 60 dB)

Inductive response



Inductive response (H = 10 mA/m)



SPLITS curve left (H = 31.6 mA/m)

Pure primax | Features and Accessories

	7px	5px	3рх
Audiology			
Signal processing (channels) / Gain/MPO (handles)	48 / 20	32 / 16	24 /12
Hearing programs	6	6	6
SpeechMaster	•	•	•
HD Music (presets)	3	1	1
TwinPhone ¹⁾	•	•	•
EchoShield	•	_	_
Wireless CROS/BICROS ²⁾	•	•	•
Directionality (channels)	48	32	24
Narrow Directionality¹)			
Directional microphone			
Spatial SpeechFocus¹)		—	_
SpeechFocus			
TruEar™			
Frequency compression	•	•	•
Extended bandwidth	•	_	_
Feedback cancellation	•	•	•
eWindScreen binaural¹)	•	•	_
eWindScreen® (steps)	3	3	on / off
Noise Reduction (channels / steps)	48 / 5	32 / 5	24 / 3
Speech and noise management (steps)	7	5	3
SoundSmoothing™ (steps)	3	3	1
Directional speech enhancement (steps)	3	1	_
Adaptive streaming volume ³⁾	•	_	_
SoundBrilliance™ 3)	•	•	_
Sound equalizer (classes)	6	3	_
User Controls, remote controls, streaming			
touchControl™ App (iOS™ / Android™)	•	•	•
easyTek™ / easyPocket™	•/•	• / •	• / •
Spatial Configurator¹)	•	•	_
Span ⁴⁾	•	•	
Direction ⁵⁾	•	•	_
SoundBalance	•	•	•
Fitting			
Insitugram	•	•	•
Learning (classes) / Data logging	6 / •	3 / •	1/•
Acclimatization manager	•	•	•
Tinnitus			1
Tinnitus therapy			
Static therapy signal (handles / presets)	20 / 5	16 / 5	12 / 5
Ocean Waves therapy signal (presets)	4	4	4

Pure primax | Features and Accessories

	7px / 5px / 3px		
Style Specific Features			
Ingress Protection Rating	IP67		
Telecoil	•		
AutoPhone®	•		
Charging contacts	•		
Battery Size	312		
Battery door on/off function	•		
Nanocoated housing	•		
e2e wireless® 3.0	•		
Audio streaming with easyTek	•		
User controls coupling via e2e	•		
Wireless programming via ConnexxLink®	•		
Instrument configurations			
Flat cover	0		
Rotary volume control			
Push button	0		
Rocker switch	•		
Color conversion kit	0		
Battery door – direct audio input	_		
Battery door – child lock	_		
Programming Accessories			
ConnexxLink	•		
Programming pill	•		
Accessories			
CROS Pure	0		
eCharger™			
easyPocket™	0		
easyTek	0		
Transmitter (req. easyTek)	0		
VoiceLink™ (req. easyTek)	0		
Арр			
easyTek App (req. easyTek)	0		
touchControl App	0		

[■] available ■■■■ highest feature performance ○ optional — not available

 $^{^{\}text{1)}}$ req. bilateral fitting and e2e $^{\text{TM}}$ 3.0

²⁾ req. CROS Pure accessory

 $^{^{\}rm 3)}$ streaming only, req. easyTek $^{\rm TM}$

⁴⁾ req. easyTek & easyTek App, touchControl App or Rocker switch

⁵⁾ req. easyTek & easyTek App or touchControl App

Notes

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 feature 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 Dome
 - P-Receiver Unit: Click Mold
 - HP-Receiver Unit: Custom Shell
- ▶ Extended frequency range up to 12 kHz for 7px devices only.

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.

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1/16 1.0 SI/16519-16



CAUTION

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.



CAUTION

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.