

# Pure 312 AX

### **Technical Data**

<sup>Made for</sup> **∉** iPhone | iPad | iPod 7AX 5AX 3AX 2AX 1AX DAX



#### S-Receiver

- 46 dB / 109 dB SPL (2 ccm coupler)
- 56 dB / 119 dB SPL (Ear simulator)

#### **M-Receiver**

- 58 dB / 117 dB SPL (2 ccm coupler)
- 68 dB / 127 dB SPL (Ear simulator)

#### **P-Receiver**

- 63 dB / 120 dB SPL (2 ccm coupler)
- 73 dB / 130 dB SPL (Ear simulator)

#### **HP-Receiver**

- 74 dB / 128 dB SPL (2 ccm coupler)
- 82 dB / 137 dB SPL (Ear simulator)

## Pure 312 AX | Technical Data

2 ccm coupler         Ear simulator         2 ccm coupler         Ear simulator           OsPL 90 at 1.6 kHz         -         110 dB SPL         -         121 dB SP           OSPL 90 (Peak)         109 dB SPL         119 dB SPL         117 dB SPL         127 dB SP           HFA-OSPL 90         102 dB SPL         -         114 dB SPL         -           Gain         -         44 dB         -         57 dB           FOG at 1.6 kHz         -         44 dB         -         57 dB           FOG (peak)         46 dB         56 dB         58 dB         68 dB           HFA-FOG         38 dB         -         51 dB         -           Reference test gain         25 dB         35 dB         37 dB         47 dB           Frequency, noise and directivity         -         100 – 10000 Hz         100 – 10000 Hz         100 – 9500 Hz         100 – 10000
OSPL 90 at 1.6 kHz       –       110 dB SPL       –       121 dB SP         OSPL 90 (Peak)       109 dB SPL       119 dB SPL       117 dB SPL       127 dB SP         HFA-OSPL 90       102 dB SPL       –       114 dB SPL       –         Gain       –       44 dB       –       57 dB         FOG at 1.6 kHz       –       46 dB       56 dB       58 dB       68 dB         FOG (peak)       46 dB       56 dB       58 dB       68 dB       –         HFA-FOG       38 dB       –       51 dB       –       –         Reference test gain       25 dB       35 dB       37 dB       47 dB         Frequency range 7AX       100 – 10000 Hz       100 – 10000 Hz       100 – 9500 Hz       100 – 10000
OSPL 90 (Peak)         109 dB SPL         119 dB SPL         117 dB SPL         127 dB SPL           HFA-OSPL 90         102 dB SPL         -         114 dB SPL         -         -           Gain         -         44 dB         -         57 dB         57 dB         57 dB           FOG at 1.6 kHz         -         46 dB         56 dB         58 dB         68 dB         68 dB           HFA-FOG         38 dB         -         51 dB         -         -         -           Reference test gain         25 dB         35 dB         37 dB         47 dB         -           Frequency noise and directivity         100 – 10000 Hz         100 – 10000 Hz         100 – 9500 Hz         100 – 10000
HFA-OSPL 90       102 dB SPL       -       114 dB SPL       -         Gain       -       44 dB       -       57 dB         FOG at 1.6 kHz       -       44 dB       -       57 dB         FOG (peak)       46 dB       56 dB       58 dB       68 dB         HFA-FOG       38 dB       -       51 dB       -         Reference test gain       25 dB       35 dB       37 dB       47 dB         Frequency, noise and directivity       100 – 10000 Hz       100 – 10000 Hz       100 – 9500 Hz       100 – 10000 Hz
Gain         -         44 dB         -         57 dB           FOG at 1.6 kHz         -         44 dB         -         57 dB           FOG (peak)         46 dB         56 dB         58 dB         68 dB           HFA-FOG         38 dB         -         51 dB         -           Reference test gain         25 dB         35 dB         37 dB         47 dB           Frequency, noise and directivity         -         100 - 10000 Hz         100 - 9500 Hz         100 - 10000 Hz
FOG at 1.6 kHz       -       44 dB       -       57 dB         FOG (peak)       46 dB       56 dB       58 dB       68 dB         HFA-FOG       38 dB       -       51 dB       -         Reference test gain       25 dB       35 dB       37 dB       47 dB         Frequency, noise and directivity       100 – 10000 Hz       100 – 10000 Hz       100 – 9500 Hz       100 – 10000 Hz
FOG (peak)         46 dB         56 dB         58 dB         68 dB           HFA-FOG         38 dB         -         51 dB         -           Reference test gain         25 dB         35 dB         37 dB         47 dB           Frequency, noise and directivity         100 - 10000 Hz         100 - 9500 Hz         100 - 10000 Hz
HFA-FOG       38 dB       -       51 dB       -         Reference test gain       25 dB       35 dB       37 dB       47 dB         Frequency, noise and directivity       -       -       -       -         Frequency range 7AX       100 – 10000 Hz       100 – 10000 Hz       100 – 9500 Hz       100 – 10000 Hz
Reference test gain         25 dB         35 dB         37 dB         47 dB           Frequency, noise and directivity         100 – 10000 Hz         100 – 10000 Hz         100 – 9500 Hz         100 – 10000 Hz
Frequency, noise and directivity         100 – 10000 Hz         100 – 10000 Hz         100 – 9500 Hz         100 – 10000
Frequency range 7AX 100 – 10000 Hz 100 – 10000 Hz 100 – 9500 Hz 100 – 10000
5AX / 3AX / 2AX / 1AX         100 - 8200 Hz         100 - 8300 Hz         100 - 8200 Hz         100 - 8300
Equivalent input noise14 dB SPL19 dB SPL18 dB SPL21 dB SPL
Total harmonic distortion at         1/1/1/1 %         1/2/1/- %         1/1/1/1 %         2/2/3/-
Tinnitus Function broadband     65 dB SPL     -     70 dB SPL     -
AI-DI 4.0 dB 4.0 dB
Inductive coil sensitivity
MASL (1 mA/m) at 1.6 kHz – – – – –
HFA MASL (1 mA/m) – – – – –
HFA SPLITS (left/right) – – – –
RSETS (left/right) – – – –
HFA SPLIV – – – –
Battery
Battery voltage1.3 V1.3 V
Battery current drain         1.5 mA         1.5 mA         1.7 mA         1.7 mA
Battery runtime (without streaming) up to 89 h up to 84 h
Battery runtime (incl. 20 h streaming)up to 72 hup to 69 h
Cellphone Compatibility
Microphone mode         0.65 – 0.96 GHz         0.65 – 0.96 GHz           1.4 – 2.7 GHz         1.4 – 2.7 GHz         1.4 – 2.7 GHz
Telecoil mode – –

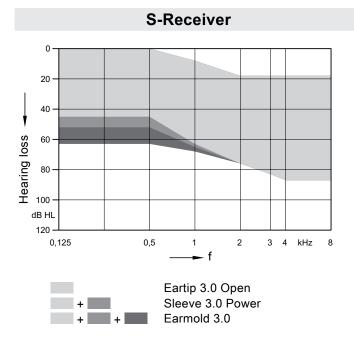
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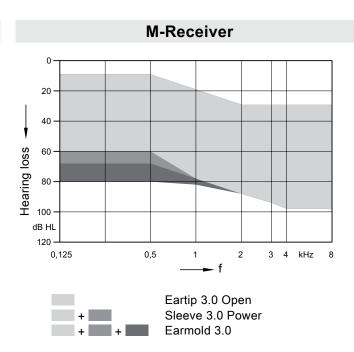
## Pure 312 AX | Technical Data

DSPL 90 at 1.6 kHz         -         127 dB SPL         -         135 dB SPL           DSPL 90 (Peak)         120 dB SPL         130 dB SPL         128 dB SPL         137 dB SPL           IfA-OSPL 90         118 dB SPL         -         122 dB SPL         -           Sain         -         66 dB         -         81 dB           iOG at 1.6 kHz         -         66 dB         -         81 dB           iOG (peak)         65 dB         73 dB         74 dB         82 dB           iFA-FOG         59 dB         -         67 dB         -           Reference test gain         41 dB         53 dB         46 dB         60 dB           irrequency noise and directivity         100 - 7400 Hz         100 - 8000 Hz         100 - 7700 Hz         200 - 7500 Hz           irrequency range 7AX         100 - 7400 Hz         100 - 8000 Hz         100 - 7700 Hz         200 - 7500 Hz           iool / 800 / 1600 / 3200 Hz         11 / 2 / 1 / 1 %         2 / 4 / 2 / - %         1 / 2 / 1 / 1 %         2 / 2 / 1 / - %           ioda harmonic distortion at         100 - 7400 Hz         100 - 8000 Hz         100 - 7700 Hz         200 - 7500 Hz           ioda harmonic distortion at         100 - 7400 Hz         100 - 7700 Hz         2 / 2 / 1 / - % <th>Туре</th> <th colspan="2">P-Receiver</th> <th colspan="3">HP-Receiver</th>	Туре	P-Receiver		HP-Receiver		
DSPL 90 at 1.6 kHz         -         127 dB SPL         -         135 dB SPL           DSPL 90 (Peak)         120 dB SPL         130 dB SPL         128 dB SPL         137 dB SPL           IfA-OSPL 90         118 dB SPL         -         122 dB SPL         -           Sain         -         66 dB         -         81 dB           iOG at 1.6 kHz         -         66 dB         -         81 dB           iOG (peak)         65 dB         73 dB         74 dB         82 dB           iFA-FOG         59 dB         -         67 dB         -           Reference test gain         41 dB         53 dB         46 dB         60 dB           irrequency noise and directivity         100 - 7400 Hz         100 - 8000 Hz         100 - 7700 Hz         200 - 7500 Hz           irrequency range 7AX         100 - 7400 Hz         100 - 8000 Hz         100 - 7700 Hz         200 - 7500 Hz           iool / 800 / 1600 / 3200 Hz         11 / 2 / 1 / 1 %         2 / 2 / 1 / - %         1 / 2 / 1 / 1 %         2 / 2 / 1 / - %           iool / 800 / 1600 / 3200 Hz         11 / 2 / 1 / 1 %         2 / 2 / 1 / - %         1 / 2 / 1 / 1 %         2 / 2 / 1 / - %           iool / 800 / 1600 / 3200 Hz         15 dB SPL         -         -         -         <		2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator	
DSPL 90 (Peak)         120 dB SPL         130 dB SPL         128 dB SPL         137 dB SPL           4FA-OSPL 90         118 dB SPL         -         122 dB SPL         -           Sain         -         66 dB         -         81 dB           COG at 1.6 kHz         -         66 dB         -         81 dB           COG (peak)         63 dB         73 dB         74 dB         82 dB           HFA-FOG         59 dB         -         67 dB         -           Reference test gain         41 dB         53 dB         46 dB         60 dB           Frequency, nage 7AX         100 - 7400 Hz         100 - 8000 Hz         100 - 7700 Hz         200 - 7500 Hz           GOO / 800 / 1600 / 3200 Hz         100 - 7400 Hz         100 - 8000 Hz         100 - 7700 Hz         200 - 7500 Hz           GOO / 800 / 1600 / 3200 Hz         11 / 2 / 1 / 1 %         2 / 4 / 2 / - %         1 / 2 / 1 / 1 %         2 / 2 / 1 / - %           Innitus Function broadband         75 dB SPL         -         85 dB SPL         -         -           ASL (1 mA/m) at 1.6 kHz         -         -         -         -         -         -           ASL (1 mA/m) at 1.6 kHz         -         -         -         -         -	Output sound pressure level					
If A-OSPL 90       118 dB SPL       -       122 dB SPL       -         Gain       -       66 dB       -       81 dB         FOG at 1.6 kHz       -       66 dB       -       81 dB         FOG (peak)       63 dB       73 dB       74 dB       82 dB         IFA-FOG       59 dB       -       67 dB       -         Reference test gain       41 dB       53 dB       46 dB       60 dB         Frequency, noise and directivity       -       100 - 7400 Hz       100 - 7700 Hz       200 - 7500 Hz         Trequency range 7AX       100 - 7400 Hz       100 - 7700 Hz       200 - 7500 Hz       200 - 7500 Hz         AX / 3AX / 2AX / 1AX       100 - 7400 Hz       100 - 7700 Hz       200 - 7500 Hz       200 - 7500 Hz         Sation       14 dB SPL       16 dB SPL       14 dB SPL       8 dB SPL       -         Tool - 7400 Hz       100 - 7400 Hz       100 - 7700 Hz       200 - 7500 Hz       200 - 7500 Hz         Sation 200 Hz       100 - 7400 Hz       100 - 7400 Hz       100 - 7700 Hz       200 - 7500 Hz         Sation 200 Hz       16 dB SPL       14 dB SPL       8 dB SPL       -       -         Sation 200 Hz       172 / 1/1 %       2/4 / 2/ - %       1/2 / 1/1 %	OSPL 90 at 1.6 kHz	_	127 dB SPL	_	135 dB SPL	
Sain         -         66 dB         -         81 dB           FOG (peak)         63 dB         73 dB         74 dB         82 dB           FOG (peak)         63 dB         73 dB         74 dB         82 dB           HFA-FOG         59 dB         -         67 dB         -           Reference test gain         41 dB         53 dB         46 dB         60 dB           Trequency, noise and directivity         -         -         7400 Hz         100 - 7700 Hz         200 - 7500 Hz           Frequency range 7AX         100 - 7400 Hz         100 - 8000 Hz         100 - 7700 Hz         200 - 7500 Hz           Gal Alarmonic distortion at         100 - 7400 HZ         100 - 8000 Hz         100 - 7700 Hz         200 - 7500 Hz           Gol Al Armonic distortion at         100 - 7400 HZ         100 - 8000 Hz         100 - 7700 Hz         200 - 7500 Hz           Gol Alarmonic distortion at         100 - 700 HZ         100 - 700 HZ         200 - 7500 Hz         200 - 7500 Hz           Gol Alarmonic distortion at         100 - 700 HZ         100 - 700 HZ         200 - 7500 HZ         20 - 7500 HZ           Gol Alarmonic distortion at         11/2 / 1/1 %         2 / 4 / 2 / - %         1 / 2 / 1 / 1 %         2 / 2 / 1 / - %           Gold Alarmonic distortion at<	OSPL 90 (Peak)	120 dB SPL	130 dB SPL	128 dB SPL	137 dB SPL	
OG at 1.6 kHz         -         66 dB         -         81 dB           COG (peak)         63 dB         73 dB         74 dB         82 dB           Reference test gain         59 dB         -         67 dB         -           Reference test gain         41 dB         53 dB         46 dB         60 dB           Terequency, noise and directivity         -         67 dB         -         -           Terequency range 7AX         100 - 7400 Hz         100 - 8000 Hz         100 - 7700 Hz         200 - 7500 Hz           SAX / 3AX / 2AX / 1AX         100 - 7400 Hz         100 - 8000 Hz         100 - 7700 Hz         200 - 7500 Hz           Sida harmonic distortion at io0 / 800 / 1600 / 3200 Hz         11/2 / 1/1 %         2/4 / 2 / - %         11/2 / 1/1 %         2/2 / 1/ - %           ASL (1 mA/m) at 1.6 kHz         -         -         85 dB SPL         -           AASL (1 mA/m) at 1.6 kHz         -         -         -         -           AFA SPLITS (left/right)         -         -         -         -         -           AFA SPLITS (left/right)         -         -         -         -         -         -         -         -         -         -         -         -         -         -	HFA-OSPL 90	118 dB SPL	_	122 dB SPL	_	
COG (peak)         63 dB         73 dB         74 dB         82 dB           HFA-FOG         59 dB         -         67 dB         -           Reference test gain         41 dB         53 dB         46 dB         60 dB           Frequency, noise and directivity         -         -         67 dB         -           Frequency, noise and directivity         -         -         60 dB         60 dB           Frequency, noise and directivity         -         100 - 7400 Hz         100 - 8000 Hz         100 - 7700 Hz         200 - 7500 Hz           Galva / JAX / JAX         100 - 7400 Hz         100 - 8000 Hz         100 - 7700 Hz         200 - 7500 Hz         200 - 7500 Hz           Galva / JAX / JAX         14 dB SPL         16 dB SPL         14 dB SPL         8 dB SPL         20 - 7500 Hz           Total harmonic distortion at 500 / 3200 Hz         -         12 / 1 / 1 %         2 / 2 / 1 / - %         1/ 2 / 1 / 1 %         2 / 2 / 1 / - %           Tinnitus Function broadband         75 dB SPL         -         85 dB SPL         -         -           ASL (1 mA/m) at 1.6 kHz         -         -         -         -         -         -           HFA SPLITS (left/right)         -         -         -         -         -<	Gain					
FA-FOG       59 dB       -       67 dB       -         Reference test gain       41 dB       53 dB       46 dB       60 dB         Frequency, noise and directivity       -       100 - 7400 Hz       100 - 8000 Hz       100 - 7700 Hz       200 - 7500 Hz         SAX / 3AX / 2AX / 1AX       100 - 7400 Hz       100 - 8000 Hz       100 - 7700 Hz       200 - 7500 Hz       200 - 7500 Hz         Equivalent input noise       14 dB SPL       16 dB SPL       14 dB SPL       8 dB SPL         Total harmonic distortion at s00 / 800 / 1600 / 3200 Hz       1 / 2 / 1 / 1 %       2 / 4 / 2 / - %       1 / 2 / 1 / 1 %       2 / 2 / 2 / 1 / - %         Tinitus Function broadband       75 dB SPL       -       85 dB SPL       -       -         ASL (1 mA/m) at 1.6 kHz       -<	FOG at 1.6 kHz	_	66 dB	-	81 dB	
Reference test gain         41 dB         53 dB         46 dB         60 dB           Frequency, noise and directivity         -	FOG (peak)	63 dB	73 dB	74 dB	82 dB	
Trequency, noise and directivity         Intervention         Intervention <thintervention< th=""> <thintervention< th=""></thintervention<></thintervention<>	HFA-FOG	59 dB	-	67 dB	-	
Inductive coil sensitivity         Index SPLITS (left/right)       Index SPL       Ind	Reference test gain	41 dB	53 dB	46 dB	60 dB	
SAX / 3AX / 2AX / 1AX       100 - 7400 Hz       100 - 8000 Hz       100 - 7700 Hz       200 - 7500 Hz         Equivalent input noise       14 dB SPL       16 dB SPL       14 dB SPL       8 dB SPL         Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz       1 / 2 / 1 / 1 %       2 / 4 / 2 / - %       1 / 2 / 1 / 1 %       2 / 2 / 1 / - %         Trinnitus Function broadband       75 dB SPL       -       85 dB SPL       -         AV-DI       4.0 dB       4.0 dB       4.0 dB       -         MASL (1 mA/m) at 1.6 kHz       -       -       -       -         HFA MASL (1 mA/m)       -       -       -       -       -         HFA SPLITS (left/right)       - <td< td=""><td>Frequency, noise and directivity</td><td></td><td></td><td></td><td></td></td<>	Frequency, noise and directivity					
Total harmonic distortion at 000 / 800 / 1600 / 3200 Hz       1/2/1/1%       2/2/1/1%       2/2/1/1%       2/2/1/1%         Tinnitus Function broadband       75 dB SPL       -       85 dB SPL       -         AI-DI       4.0 dB       4.0 dB       4.0 dB         MASL (1 mA/m) at 1.6 kHz       -       -       -         HFA MASL (1 mA/m)       -       -       -       -         HFA SPLITS (left/right)       -       -       -       -         RSETS (left/right)       -       -       -       -         AFA SPLIV       -       -       -       -         Battery voltage       1.3 V       1.3 V       1.3 V       1.6 mA         Battery runtime (without streaming)       up to 87 h       up to 87 h       up to 87 h         Battery runtime (incl. 20 h streaming)       up to 71 h       up to 71 h       up to 71 h	Frequency range 7AX 5AX / 3AX / 2AX / 1AX					
300 / 800 / 1600 / 3200 Hz       1/2/1/1%       2/4/2/-%       1/2/1/1%       2/2/1/-%         Tinnitus Function broadband       75 dB SPL       -       85 dB SPL       -         AI-DI       4.0 dB       4.0 dB       4.0 dB       -         MASL (1 mA/m) at 1.6 kHz       -       -       -       -         HFA MASL (1 mA/m)       -       -       -       -       -         HFA SPLITS (left/right)       -       -       -       -       -         AFA SPLIV       -       -       -       -       -       -         AFA SPLIV       -	Equivalent input noise	14 dB SPL	16 dB SPL	14 dB SPL	8 dB SPL	
AI-DI       4.0 dB       4.0 dB         Inductive coil sensitivity       -       -       -         MASL (1 mA/m) at 1.6 kHz       -       -       -       -         IFA MASL (1 mA/m)       -       -       -       -       -       -         IFA SPLITS (left/right)       -<	Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz	1/2/1/1%	2 / 4 / 2 / – %	1/2/1/1%	2/2/1/-%	
Inductive coil sensitivity         Image: matrix sensitivity           MASL (1 mA/m) at 1.6 kHz         -	Tinnitus Function broadband	75 dB SPL	-	85 dB SPL	-	
MASL (1 mA/m) at 1.6 kHz       –       3       3       3       3 </td <td>AI-DI</td> <td colspan="2">4.0 dB</td> <td colspan="3">4.0 dB</td>	AI-DI	4.0 dB		4.0 dB		
IFA MASL (1 mA/m)–––IFA SPLITS (left/right)–––RSETS (left/right)–––IFA SPLIV–––IFA SPLIV–––Battery1.3 V1.3 VBattery voltage1.3 V1.3 VBattery current drain1.7 mA1.6 mABattery runtime (without streaming)up to 87 hup to 87 hBattery runtime (incl. 20 h streaming)up to 71 hup to 71 h	Inductive coil sensitivity					
IFA SPLITS (left/right)–––RSETS (left/right)––––IFA SPLIV––––Battery––––Battery voltage1.3 V1.3 VBattery current drain1.7 mA1.6 mA1.7 mABattery runtime (without streaming)up to 87 hup to 87 hBattery runtime (incl. 20 h streaming)up to 71 hup to 71 h	MASL (1 mA/m) at 1.6 kHz	_	-	-	-	
RSETS (left/right)HFA SPLIVBatteryBattery voltage1.3 V1.3 VBattery current drain1.7 mA1.6 mA1.7 mABattery runtime (without streaming)up to 87 hup to 87 hBattery runtime (incl. 20 h streaming)up to 71 hup to 71 h	HFA MASL (1 mA/m)	_	_	_	-	
IFA SPLIV––––Battery–––––Battery voltage1.3 V1.3 V1.3 VBattery current drain1.7 mA1.6 mA1.7 mA1.6 mABattery runtime (without streaming)up to 87 hup to 87 hup to 87 hBattery runtime (incl. 20 h streaming)up to 71 hup to 71 hCellphone Compatibility–––	HFA SPLITS (left/right)	_	-	-	-	
BatterySattery voltage1.3 V1.3 VBattery voltage1.7 mA1.6 mA1.7 mA1.6 mABattery runtime (without streaming)up to 87 hup to 87 hup to 87 hBattery runtime (incl. 20 h streaming)up to 71 hup to 71 hup to 71 h	RSETS (left/right)	_	-	_	-	
Battery voltage1.3 V1.3 VBattery current drain1.7 mA1.6 mA1.7 mA1.6 mABattery runtime (without streaming)up to 87 hup to 87 hup to 87 hBattery runtime (incl. 20 h streaming)up to 71 hup to 71 hCellphone CompatibilityUUU	HFA SPLIV	-	-	-	-	
Battery current drain       1.7 mA       1.6 mA       1.7 mA       1.6 mA         Battery runtime (without streaming)       up to 87 h       up to 87 h       up to 87 h         Battery runtime (incl. 20 h streaming)       up to 71 h       up to 71 h       up to 71 h	Battery					
Battery runtime (without streaming) up to 87 h up to 87 h Battery runtime (incl. 20 h streaming) up to 71 h up to 71 h Cellphone Compatibility	Battery voltage	1.3 V		1.3 V		
Battery runtime (incl. 20 h streaming) up to 71 h up to 71 h Cellphone Compatibility	Battery current drain	1.7 mA	1.6 mA	1.7 mA	1.6 mA	
Cellphone Compatibility	Battery runtime (without streaming)	up to 87 h		up to 87 h		
	Battery runtime (incl. 20 h streaming)	up to 71 h		up to 71 h		
	Cellphone Compatibility					
Microphone mode         0.65 – 0.96 GHz         0.65 – 0.96 GHz           1.4 – 2.7 GHz         1.4 – 2.7 GHz         1.4 – 2.7 GHz	Microphone mode	0.65 – 0.96 GHz 1.4 – 2.7 GHz		0.65 – 0.96 GHz 1.4 – 2.7 GHz		
Felecoil mode     –     –	Telecoil mode			-		

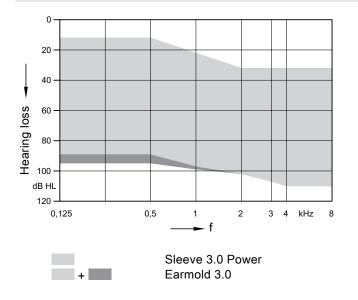
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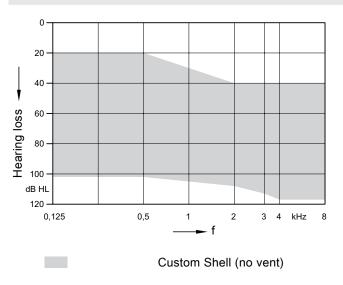




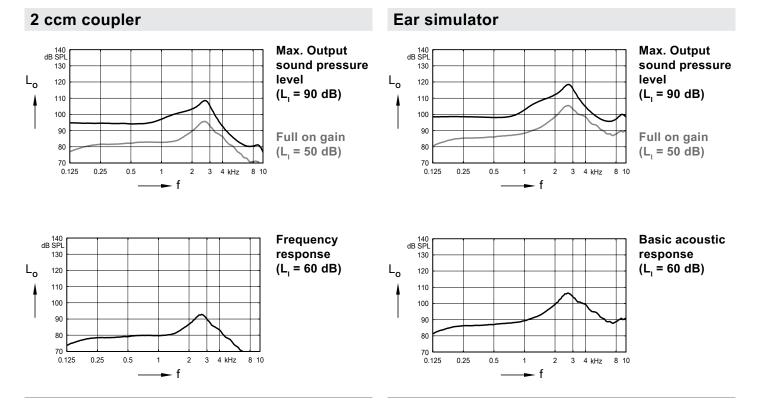
**P-Receiver** 



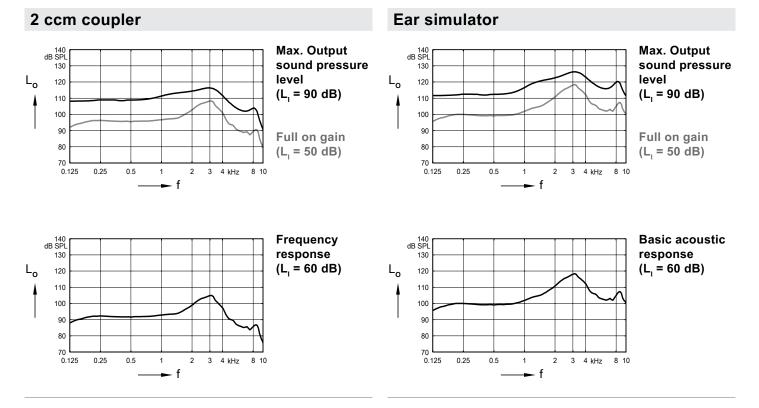
**HP-Receiver** 



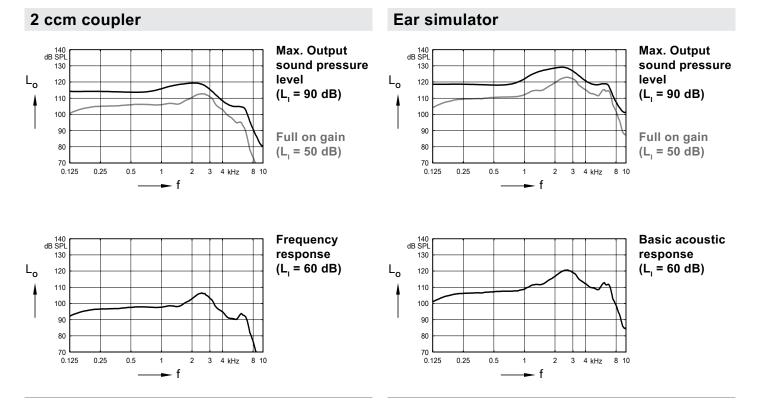
### S-Receiver (Sleeve 3.0 Power) | Basic Data



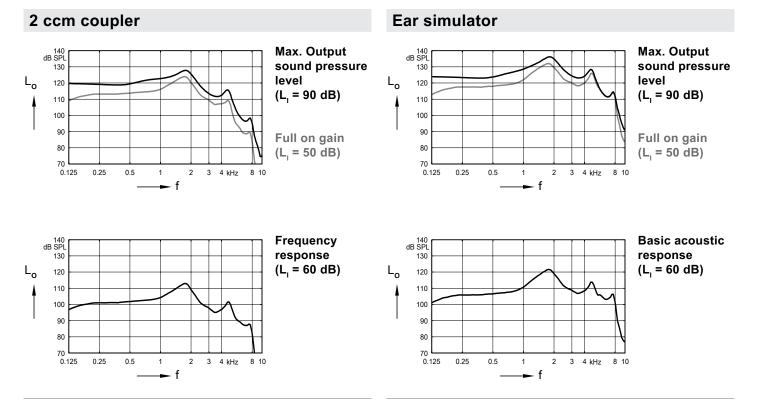
### M-Receiver (Sleeve 3.0 Power) | Basic Data



### P-Receiver (Earmold 3.0) | Basic Data



### HP-Receiver (Custom Shell) | Basic Data



### Pure 312 AX | Features and Accessories

	7AX	5AX	3AX	2AX	1AX
Dynamic Soundscape Processing 2.0					
Augmented Focus	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	√
Acoustic Sensor	1	$\checkmark$	√	$\checkmark$	$\checkmark$
Motion Sensor	1	$\checkmark$	1		
OVP (Own Voice Processing) <sup>1)</sup>	$\checkmark$	$\checkmark$	$\checkmark$	_	—
Sound Clarity					
Signal processing (channels) / Gain&MPO (handles)	48 / 20	32 / 16	24 / 12	16 / 8	16 / 8
Hearing programs	6	6	6	4	4
Extended dynamic range	√	√	1	√	√
Speech and noise management	$\checkmark$	$\checkmark$	√	√	1
SoundSmoothing	✓	√	√	√	
Feedback cancellation	1	$\checkmark$	1	√	1
HD Music (presets)	3	3	1	1	
eWindScreen	1	$\checkmark$	1	1	
Extended bandwidth	$\checkmark$		_		
EchoShield	1	$\checkmark$	_		
Speech Quality					
Binaural Directionality	$\checkmark$	$\checkmark$	1	_	_
Wireless CROS/BICROS	✓	$\checkmark$	1	1	1
Frequency compression	✓	1	1	1	√
Spatial SpeechFocus <sup>1) 2)</sup>	1	$\checkmark$	_		
Wearer Interaction					
Signia Assistant	$\checkmark$	$\checkmark$	1	$\checkmark$	1
Signia App (iOS and Android)	✓	$\checkmark$	1	$\checkmark$	$\checkmark$
Adaptive Streaming Volume <sup>3)</sup>	1	$\checkmark$	√	$\checkmark$	$\checkmark$
Spatial Configurator	✓	$\checkmark$	_		_
Direct Streaming	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Android devices (ASHA)	$\checkmark$	$\checkmark$	1	$\checkmark$	$\checkmark$
Made for iPhone   iPad   iPod	√	$\checkmark$	1	$\checkmark$	√
Tinnitus	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	—
Notched Amplification Therapy	$\checkmark$	$\checkmark$	1	$\checkmark$	_
Tinnitus noise therapy signal	1	$\checkmark$	√	1	
Fitting	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Smart Optimizer and Data Logging	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	1
Acclimatization manager	✓	$\checkmark$	1	$\checkmark$	1
InSituGram	$\checkmark$	$\checkmark$	√	$\checkmark$	√
AutoFit	$\checkmark$	$\checkmark$	√	$\checkmark$	√
TeleCare	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Remote Services	$\checkmark$	$\checkmark$	1	$\checkmark$	√
Signia App	✓	√	√	1	√

req. bilateral fitting
 for 5AX, right/left directionality available only in

Stroll Program and via the Spatial Configurator

<sup>3)</sup> streaming only

highest feature performance

✓ available — not available O optional

### Pure 312 AX | Features and Accessories

Style specific features	
Ingress Protection Rating	IP68
Charging contacts	
Battery size	312
Battery door on/off function	✓
Nanocoated housing	✓
e2e wireless 4.0	✓
User controls coupling via e2e	✓
Wireless programming	✓
Instrument configurations	
Flat cover	_
Rotary volume control	
Push button	
Rocker switch	✓
Color conversion kit	0
Color conversion kit with T-Coil	_
T-Coil	_
Battery door - child lock	
Small earhook	—
Programming accessories	
ConnexxAir / ConnexxLink	/
Noahlink Wireless	Mandatory
Programming adapter / cable	
Accessories	
miniPocket	0
StreamLine TV	0
StreamLine Mic	0
CROS Pure C&G AX	0
CROS Pure 312 AX	0
CROS Styletto AX	

## Pure 312 AX | Further information

#### Abbreviations

The following abbreviations are used in this datasheet:

SPL	Sound Pressure Level
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
SPLIV	SPL In a Vertical magnetic field
AI-DI	Articulation Index - Directivity Index
IRIL	Input Related Interference Level
RTF	Reference Test Frequency
ASHA	Audio streaming for hearing aids

#### Standards and additional information

- All measurements with the 2 ccm coupler were performed according to ANSI S3.22-2014 and IEC 60118-0:2015 if applicable.
- All measurements with an ear simulator were performed according to IEC 118-0/A1:1994 and to DIN 45605 (frequency range) if applicable.
- All Cellphone Compatibility measurements were performed according to IEC 60118-13:2019, EN IEC 60118-13:2020 and ANSI C63.19-2019.
- Cellphone Compatibility definition: It is expected that the hearing aid user can effectively use a compliant wireless device held in a talking position at the ear. Maximum achievable Cellphone Compatibility range: 0.65–0.96 GHz and 1.4–2.7 GHz.
- Curves and figures representing FOG are measured with 20 dB reduction and 70 dB SPL input level.
- Figures representing Equivalent Input Noise incorporate a moderate expansion.
- 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.
- Inductive coil sensitivity values, inductive response curves and T ratings apply for instruments with telecoil only.
- The current consumption is measured in reference test setting (RTS) according to the applicable standards. Due to the settling behaviour of hearing aids supporting RF (radio frequency), the battery current is measured 3 minutes after turning on (note: no pairing).
- The battery runtime is based on first fit settings using 60 % of the fitting range and an ISTS (International Speech Test Signal) input signal at 65 dB SPL (note: pairing established). The actual battery runtime is determined by battery quality, hearing loss, sound environment, usage and activated feature set. Regarding RF usage (Bluetooth streaming) two different conditions are considered.
- Extended bandwidth up to 12 kHz for 7AX devices only.
- ▶ The following acoustic connections/ear pieces were used:
  - S-Receiver Unit and M-Receiver Unit: Sleeve 3.0 Power
  - P-Receiver Unit: Earmold 3.0
  - HP-Receiver Unit: Custom Shell

<sup>Made for</sup> **€** iPhone | iPad | iPod "Made for iPhone", "Made for iPad", and "Made for iPod" mean that an electronic accessory has been designed to connect specifically to iPhone, iPad, or iPod, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPhone, iPad, or iPod may affect wireless performance.

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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Subject to change without prior notice



#### 

Choking hazard posed by small parts.

▶ This instrument is not intended for the fitting of infants, children under 3 years or persons of mental incapacity.

#### 

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.

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