

Intuis P 4

Data Sheet

4.7

4.5

4.3

4.2

4.1

4.0

4.D



Earhook

- 77 dB / 135 dB SPL
(2 ccm coupler)
- 82 dB / 139 dB SPL
(Ear simulator)

ThinTube 3.0

- 66 dB / 129 dB SPL
(2 ccm coupler)
- 69 dB / 133 dB SPL
(Ear simulator)

ThinTube 3.0 P

- 70 dB / 130 dB SPL
(2 ccm coupler)
- 74 dB / 134 dB SPL
(Ear simulator)

Intuis P 4 | Technical Data

Type	Earhook	
	2 ccm coupler	Ear simulator
Output sound pressure level		
OSPL 90 at 1.6 kHz	—	136 dB SPL
OSPL 90 (peak)	135 dB SPL	139 dB SPL
HFA OSPL 90	130 dB SPL	—
Full-on gain		
FOG at 1.6 kHz	—	77 dB
FOG (peak)	77 dB	82 dB
HFA FOG	71 dB	—
Reference test gain	53 dB	61 dB
Frequency, noise and directivity		
Frequency range	4.7, 4.5, 4.3 4.2, 4.1, 4.0	100 – 6200 Hz 140 – 6300 Hz
Equivalent input noise	15 dB SPL	15 dB SPL
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz	4 / 3 / 1 / 1 %	5 / 4 / 1 / — %
Tinnitus noiser broadband	80 dB SPL	—
AI-DI	4.0 dB	
Latency	< 15 ms	
Inductive coil sensitivity		
MASL (1 mA/m) at 1.6 kHz	—	106 dB SPL
HFA MASL (1 mA/m)	101 dB SPL	—
HFA SPLITS (left/right)	113 / 113 dB SPL	—
RSETS (left/right)	0 / 0 dB	—
HFA SPLIV	113 dB SPL	—
Battery		
Battery voltage	1.3 V	
Battery current drain	1.9 mA	1.6 mA
Battery runtime (without streaming)	up to 148 h	
Battery runtime (incl. 20 h streaming)	up to 115 h	
Cellphone compatibility		
Microphone mode	0.65 – 0.96 GHz 1.4 – 2.7 GHz	
Telecoil mode	0.65 – 0.96 GHz 1.4 – 2.7 GHz	
	— not applicable	

Refer to section “Further information” for additional information on the values.

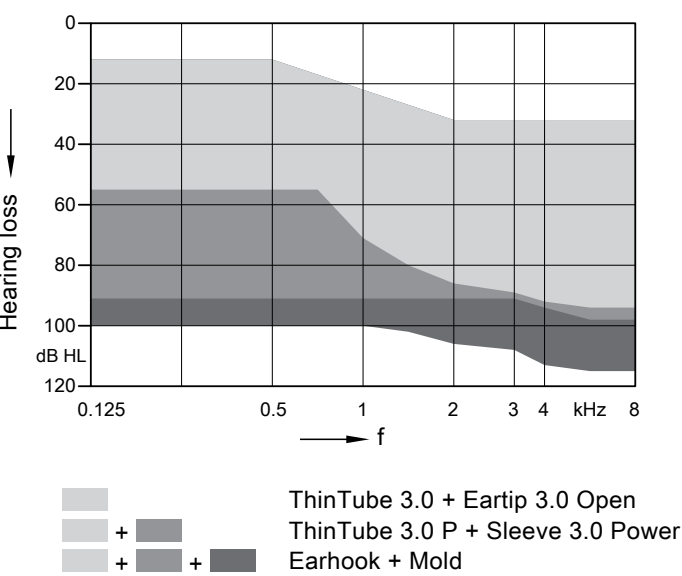
Intuis P 4 | Technical Data

Type	ThinTube 3.0		ThinTube 3.0 P	
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level				
OSPL 90 at 1.6 kHz	—	123 dB SPL	—	129 dB SPL
OSPL 90 (peak)	129 dB SPL	133 dB SPL	130 dB SPL	134 dB SPL
HFA OSPL 90	118 dB SPL	—	122 dB SPL	—
Full-on gain				
FOG at 1.6 kHz	—	62 dB	—	72 dB
FOG (peak)	66 dB	69 dB	70 dB	74 dB
HFA FOG	57 dB	—	64 dB	—
Reference test gain	41 dB	48 dB	46 dB	54 dB
Frequency, noise and directivity				
Frequency range	4.7, 4.5, 4.3 4.2, 4.1, 4.0	100 – 6200 Hz	100 – 5300 Hz	140 – 5200 Hz
Equivalent input noise		17 dB SPL	17 dB SPL	17 dB SPL
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz		1 / 1 / 1 / 1 %	2 / 1 / 1 / 1 %	3 / 1 / 2 / — %
Tinnitus noiser broadband		80 dB SPL	80 dB SPL	—
AI-DI		4.0 dB		4.0 dB
Latency		< 15 ms		< 15 ms
Inductive coil sensitivity				
MASL (1 mA/m) at 1.6 kHz	—	92 dB SPL	—	102 dB SPL
HFA MASL (1 mA/m)	86 dB SPL	—	93 dB SPL	—
HFA SPLITS (left/right)	101 / 101 dB SPL	—	105 / 105 dB SPL	—
RSETS (left/right)	0 / 0 dB	—	0 / 0 dB	—
HFA SPLIV	101 dB SPL	—	105 dB SPL	—
Battery				
Battery voltage		1.3 V		1.3 V
Battery current drain	1.7 mA	1.6 mA	1.6 mA	1.6 mA
Battery runtime (without streaming)		up to 150 h		up to 153 h
Battery runtime (incl. 20 h streaming)		up to 117 h		up to 123 h
Cellphone compatibility				
Microphone mode		0.65 – 0.96 GHz 1.4 – 2.7 GHz		0.65 – 0.96 GHz 1.4 – 2.7 GHz
Telecoil mode		0.65 – 0.96 GHz 1.4 – 2.7 GHz		0.65 – 0.96 GHz 1.4 – 2.7 GHz

— not applicable

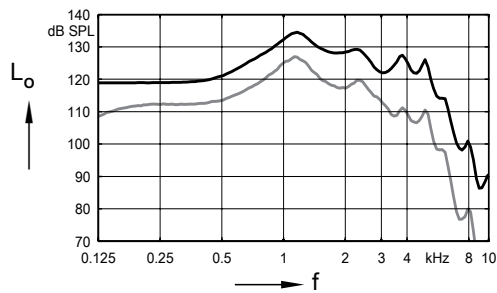
Refer to section “Further information” for additional information on the values.

Intuis P 4 | Fitting Range



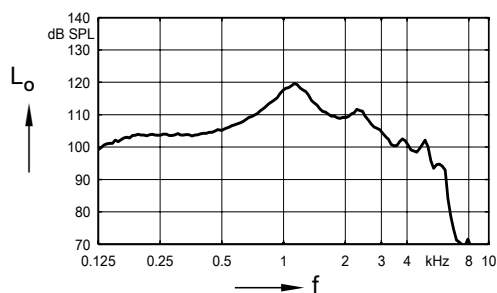
Earhook | Basic Data

2 ccm coupler



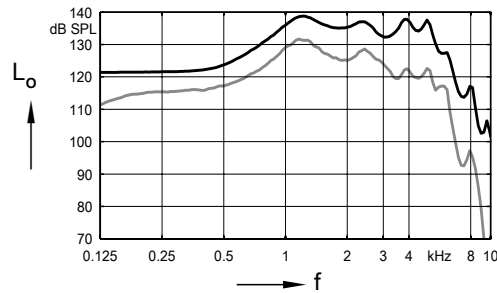
Max. Output sound pressure level
($L_i = 90$ dB)

Full-on gain
($L_i = 50$ dB)



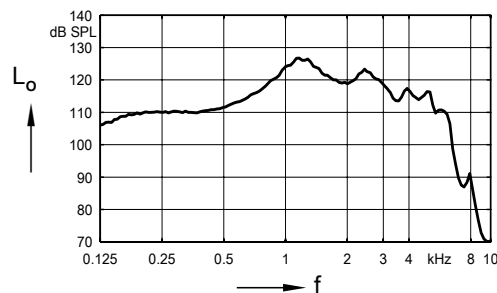
Frequency response
($L_i = 60$ dB)

Ear simulator



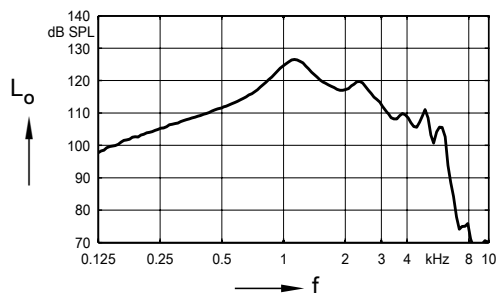
Max. Output sound pressure level
($L_i = 90$ dB)

Full-on gain
($L_i = 50$ dB)

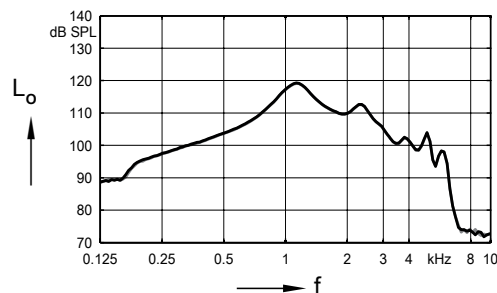


Basic acoustic response
($L_i = 60$ dB)

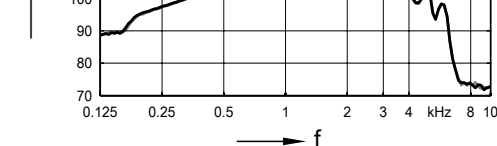
Inductive response



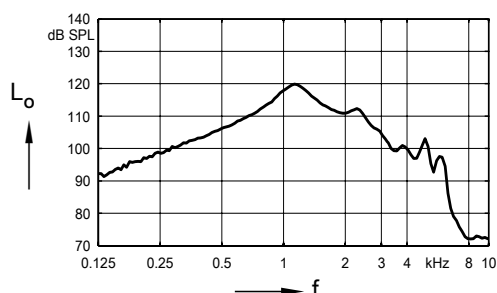
Inductive response
($H = 10$ mA/m)



SPLITS curve left
($H = 31.6$ mA/m)



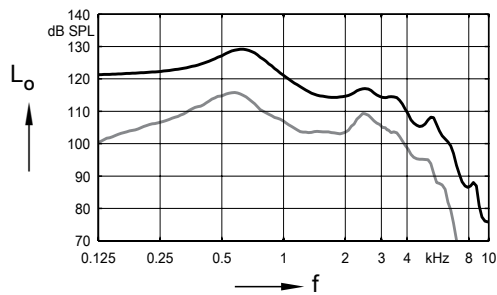
SPLITS curve right
($H = 31.6$ mA/m)



SPLIV curve
($H = 31.6$ mA/m)

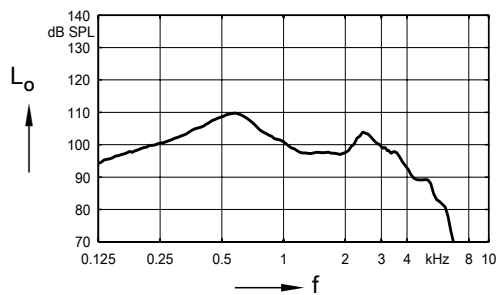
ThinTube 3.0 | Basic Data

2 ccm coupler



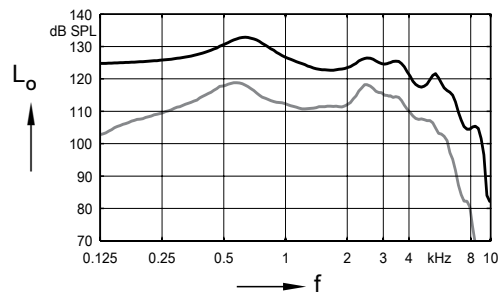
Max. Output sound pressure level
($L_i = 90$ dB)

Full-on gain
($L_i = 50$ dB)



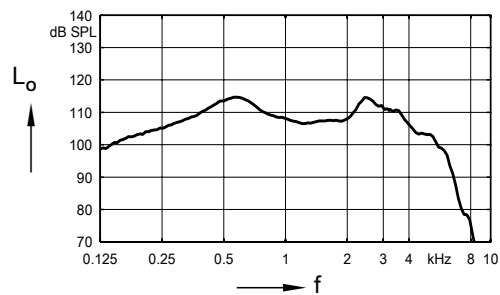
Frequency response
($L_i = 60$ dB)

Ear simulator



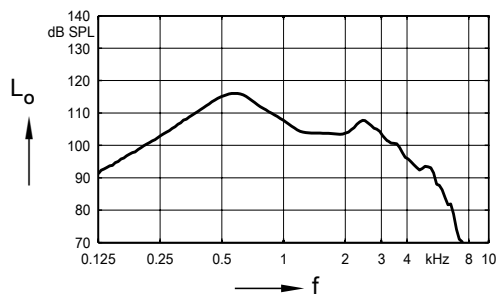
Max. Output sound pressure level
($L_i = 90$ dB)

Full-on gain
($L_i = 50$ dB)

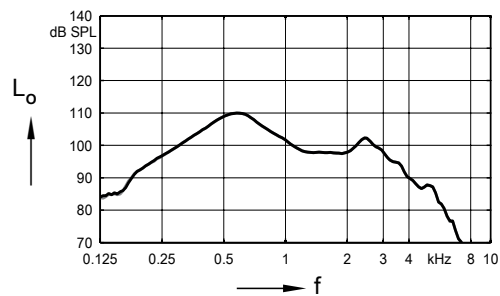


Basic acoustic response
($L_i = 60$ dB)

Inductive response



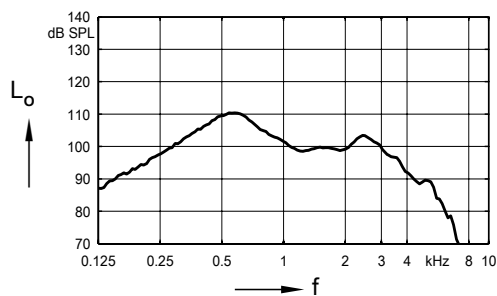
Inductive response
($H = 10$ mA/m)



SPLITS curve left
($H = 31.6$ mA/m)



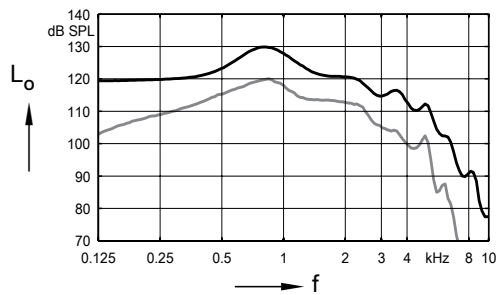
SPLITS curve right
($H = 31.6$ mA/m)



SPLIV curve
($H = 31.6$ mA/m)

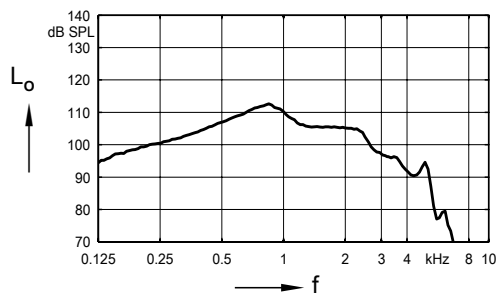
ThinTube 3.0 P | Basic Data

2 ccm coupler



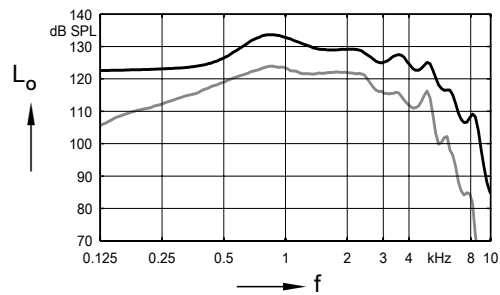
Max. Output sound pressure level
($L_i = 90$ dB)

Full-on gain
($L_i = 50$ dB)



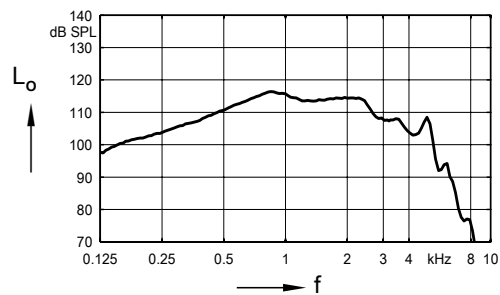
Frequency response
($L_i = 60$ dB)

Ear simulator



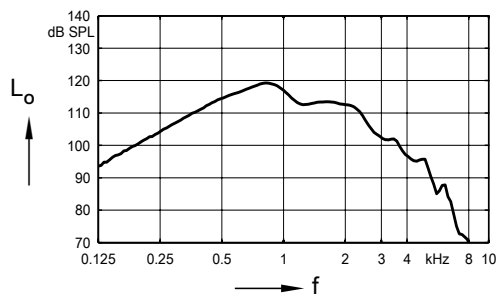
Max. Output sound pressure level
($L_i = 90$ dB)

Full-on gain
($L_i = 50$ dB)

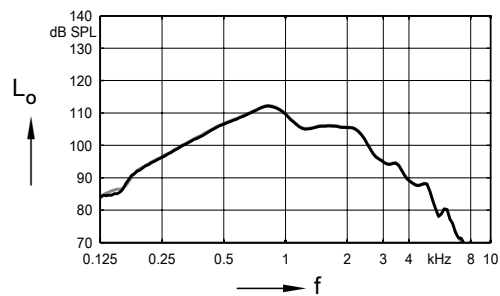


Basic acoustic response
($L_i = 60$ dB)

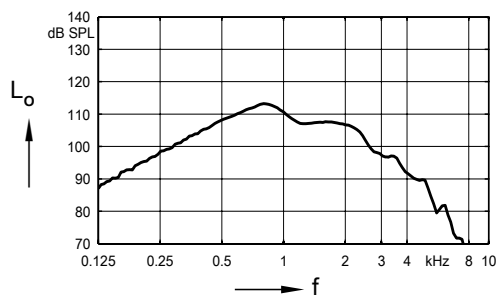
Inductive response



Inductive response
($H = 10$ mA/m)



SPLITS curve left
($H = 31.6$ mA/m)



SPLIV curve
($H = 31.6$ mA/m)

SPLITS curve right
($H = 31.6$ mA/m)

Intuis P 4 | Features and Accessories

	4.7	4.5	4.3	4.2	4.1	4.0
Dynamic Soundscape Processing 2.0	■■■■■	■■■■■	■■■■■	■■■	■■■	■■■
Augmented Focus	✓	✓	✓	✓	✓	✓
Acoustic Sensor	✓	✓	✓	✓	✓	✓
Motion Sensor	—	—	—	—	—	—
OVP 2.0 (Own Voice Processing) ¹⁾	✓	✓	✓	—	—	—
Sound Clarity	■■■■■	■■■■	■■■	■■■	■■	■■
Signal processing (channels) / Gain&MPO (handles)	48 / 20	32 / 16	24 / 12	16 / 8	16 / 8	12 / 6
Hearing programs	6	6	6	4	4	4
Extended dynamic range	✓	✓	✓	✓	✓	✓
Speech and noise management	✓	✓	✓	✓	✓	✓
SoundSmoothing	✓	✓	✓	✓	—	—
Feedback cancellation	✓	✓	✓	✓	✓	✓
HD Music (presets)	3	3	1	1	—	—
eWindScreen	✓	✓	✓	✓	—	—
Extended bandwidth	✓	—	—	—	—	—
Auto EchoShield	✓	—	—	—	—	—
EchoShield	✓	✓	—	—	—	—
Speech Quality	■■■■■	■■■■	■■■	■■	■■	■
Binaural Directionality	✓	✓	✓	—	—	—
Wireless CROS/BICROS	✓	✓	✓	✓	✓	—
Frequency compression	✓	✓	✓	✓	✓	—
Spatial SpeechFocus ^{1) 2)}	✓	✓	—	—	—	—
Wearer Interaction	■■■■■	■■■■■	■■■■	■■■■	■■■■	■■
Signia Assistant	✓	✓	✓	✓	✓	—
Signia App (iOS and Android)	✓	✓	✓	✓	✓	✓
Adaptive Streaming Volume ³⁾	✓	✓	✓	✓	✓	—
Spatial Configurator	✓	✓	—	—	—	—
Direct Streaming	✓	✓	✓	✓	✓	—
Android devices (ASHA)	✓	✓	✓	✓	✓	—
Made for iPhone iPad	✓	✓	✓	✓	✓	—
HandsFree for iOS	—	—	—	—	—	—
Tinnitus	✓	✓	✓	✓	—	—
Notched Amplification Therapy	✓	✓	✓	✓	—	—
Tinnitus noise therapy signal	✓	✓	✓	✓	—	—
Fitting	✓	✓	✓	✓	✓	✓
Smart Optimizer and Data Logging	✓	✓	✓	✓	✓	✓
Acclimatization manager	✓	✓	✓	✓	✓	—
InSituGram	✓	✓	✓	✓	✓	✓
AutoFit	✓	✓	✓	✓	✓	✓
TeleCare	✓	✓	✓	✓	✓	✓
Remote Services	✓	✓	✓	✓	✓	✓
Signia App	✓	✓	✓	✓	✓	✓

¹⁾ requires bilateral fittings

²⁾ for 4.5, left/right directionality available only in Stroll Program and via the Spatial Configurator

³⁾ streaming only

✓ available
— not available

■■■■■ highest feature performance

Intuis P 4 | Features and Accessories

	4.7 / 4.5 / 4.3 / 4.2 / 4.1	4.0
Type specific features		
Ingress Protection rating	IP68	IP68
Charging contacts	—	—
Battery type / size	13	13
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	○	○
Color conversion kit with Telecoil	—	—
Telecoil	●	●
Battery door – tamper proof	○	○
Battery door – child lock	—	—
Small earhook	○	○
Programming accessories		
Noahlink Wireless	▲	▲
ConnexxAir	—	—
Programming adapter / cable	—	—
Accessories		
miniPocket	○	○
StreamLine TV	○	—
StreamLine Mic	○	—
CROS Pure C&G AX	○	—
CROS Pure 312 AX	○	—
CROS Styletto AX	—	—

▲ mandatory
 ○ optional
 ● available
 — not available

Intuis P 4 | Further information

Abbreviations

The following abbreviations are used in this data sheet:

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 Simulated 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 EN 60118-0:2015 and ANSI S3.22:2014 if applicable.
- All measurements with an ear simulator were performed according to EN 60118-0:1993 + A1:1994 and to DIN 45605 (frequency range) if applicable.
- All Cellphone Compatibility measurements were performed according to 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 audio streaming from phone to hearing aid and from hearing aid to phone are considered.
- Extended bandwidth up to 12 kHz for 4.7 devices only.
- The following acoustic connections/ear pieces were used:
 - Earhook
 - ThinTube 3.0
 - ThinTube 3.0 P

Intuis SP 4

Data Sheet

4.7

4.5

4.3

4.2

4.1

4.0

4.D



Earhook

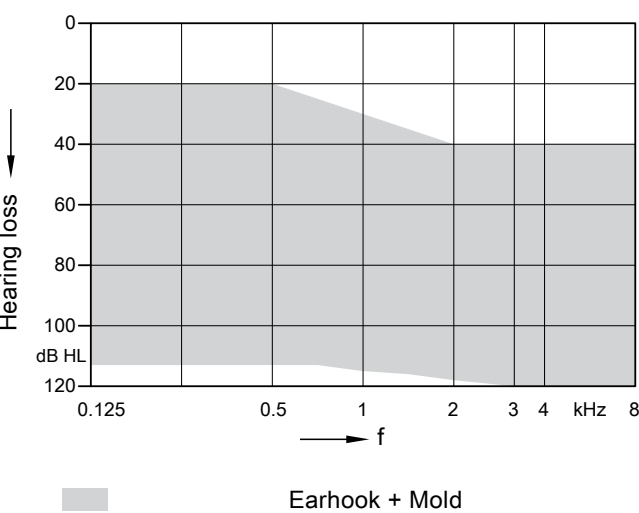
- 82 dB / 140 dB SPL
(2 ccm coupler)
- 85 dB / 143 dB SPL
(Ear simulator)

Intuis SP 4 | Technical Data

Type	Earhook	
	2 ccm coupler	Ear simulator
Output sound pressure level		
OSPL 90 at 1.6 kHz	—	134 dB SPL
OSPL 90 (peak)	140 dB SPL	143 dB SPL
HFA OSPL 90	132 dB SPL	—
Full-on gain		
FOG at 1.6 kHz	—	77 dB
FOG (peak)	82 dB	85 dB
HFA FOG	74 dB	—
Reference test gain	55 dB	59 dB
Frequency, noise and directivity		
Frequency range	4.7, 4.5, 4.3 4.2, 4.1, 4.0	100 – 5300 Hz 100 – 5400 Hz
Equivalent input noise	16 dB SPL	17 dB SPL
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz	5 / 1 / 1 / 1 %	5 / 1 / 1 / — %
Tinnitus noiser broadband	94 dB SPL	—
AI-DI	3.8 dB	
Latency	< 15 ms	
Inductive coil sensitivity		
MASL (1 mA/m) at 1.6 kHz	—	105 dB SPL
HFA MASL (1 mA/m)	103 dB SPL	—
HFA SPLITS (left/right)	114 / 114 dB SPL	—
RSETS (left/right)	–1 / –1 dB	—
HFA SPLIV	115 dB SPL	—
Battery		
Battery voltage	1.3 V	
Battery current drain	2.2 mA	1.8 mA
Battery runtime (without streaming)	up to 277 h	
Battery runtime (incl. 60 h streaming)	up to 217 h	
Cellphone compatibility		
Microphone mode	0.65 – 0.96 GHz 1.4 – 2.7 GHz	
Telecoil mode	0.65 – 0.96 GHz 1.4 – 2.7 GHz	
	— not applicable	

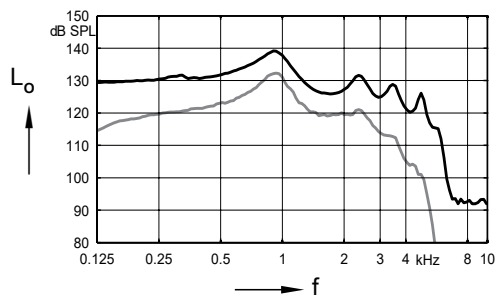
Refer to section “Further information” for additional information on the values.

Intuis SP 4 | Fitting Range



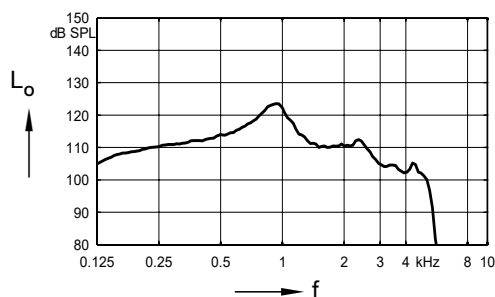
Earhook | Basic Data

2 ccm coupler



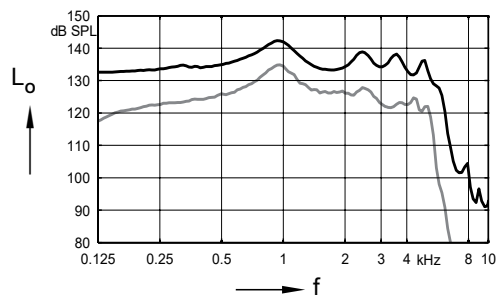
Max. Output sound pressure level
($L_i = 90$ dB)

Full on gain
($L_i = 50$ dB)



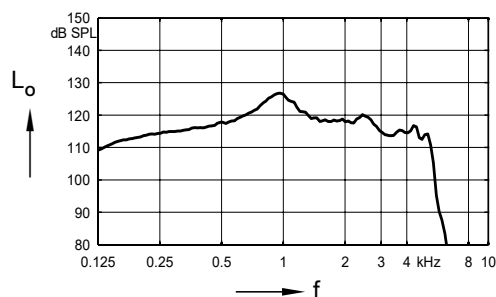
Frequency response
($L_i = 60$ dB)

Ear simulator



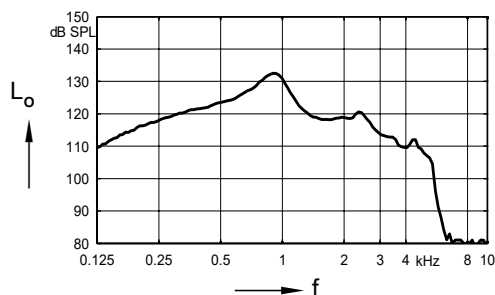
Max. Output sound pressure level
($L_i = 90$ dB)

Full on gain
($L_i = 50$ dB)

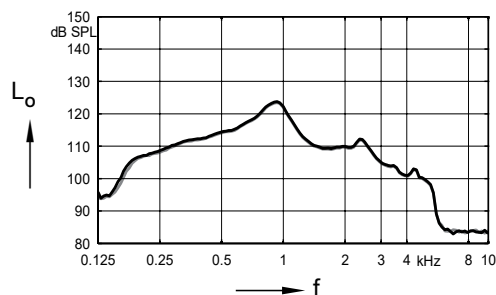


Basic acoustic response
($L_i = 60$ dB)

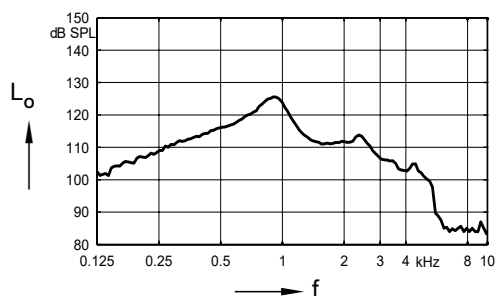
Inductive response



Inductive response
($H = 10$ mA/m)



SPLITS curve left
($H = 31.6$ mA/m)



SPLIV curve
($H = 31.6$ mA/m)

SPLITS curve right
($H = 31.6$ mA/m)

Intuis SP 4 | Features and Accessories

	4.7	4.5	4.3	4.2	4.1	4.0
Dynamic Soundscape Processing 2.0	■■■■■	■■■■■	■■■■■	■■■	■■■	■■■
Augmented Focus	✓	✓	✓	✓	✓	✓
Acoustic Sensor	✓	✓	✓	✓	✓	✓
Motion Sensor	—	—	—	—	—	—
OVP 2.0 (Own Voice Processing) ¹⁾	✓	✓	✓	—	—	—
Sound Clarity	■■■■■	■■■■	■■■	■■■	■■	■■
Signal processing (channels) / Gain&MPO (handles)	34 / 16	32 / 16	24 / 12	16 / 8	16 / 8	12 / 6
Hearing programs	6	6	6	4	4	4
Extended dynamic range	✓	✓	✓	✓	✓	✓
Speech and noise management	✓	✓	✓	✓	✓	✓
SoundSmoothing	✓	✓	✓	✓	—	—
Feedback cancellation	✓	✓	✓	✓	✓	✓
HD Music (presets)	3	3	1	1	—	—
eWindScreen	✓	✓	✓	✓	—	—
Extended bandwidth	—	—	—	—	—	—
Auto EchoShield	✓	—	—	—	—	—
EchoShield	✓	✓	—	—	—	—
Speech Quality	■■■■■	■■■■	■■■	■■	■■	■
Binaural Directionality	✓	✓	✓	—	—	—
Wireless CROS/BICROS	✓	✓	✓	✓	✓	—
Frequency compression	✓	✓	✓	✓	✓	—
Spatial SpeechFocus ^{1) 2)}	✓	✓	—	—	—	—
Wearer Interaction	■■■■■	■■■■■	■■■■	■■■■	■■■■	■■
Signia Assistant	✓	✓	✓	✓	✓	—
Signia App (iOS and Android)	✓	✓	✓	✓	✓	✓
Adaptive Streaming Volume ³⁾	✓	✓	✓	✓	✓	—
Spatial Configurator	✓	✓	—	—	—	—
Direct Streaming	✓	✓	✓	✓	✓	—
Android devices (ASHA)	✓	✓	✓	✓	✓	—
Made for iPhone iPad	✓	✓	✓	✓	✓	—
HandsFree for iOS	—	—	—	—	—	—
Tinnitus	✓	✓	✓	✓	—	—
Notched Amplification Therapy	—	—	—	—	—	—
Tinnitus noise therapy signal	✓	✓	✓	✓	—	—
Fitting	✓	✓	✓	✓	✓	✓
Smart Optimizer and Data Logging	✓	✓	✓	✓	✓	✓
Acclimatization manager	✓	✓	✓	✓	✓	—
InSituGram	✓	✓	✓	✓	✓	✓
AutoFit	✓	✓	✓	✓	✓	✓
TeleCare	✓	✓	✓	✓	✓	✓
Remote Services	✓	✓	✓	✓	✓	✓
Signia App	✓	✓	✓	✓	✓	✓

¹⁾ requires bilateral fittings

²⁾ for 4.5, left/right directionality available only in Stroll Program and via the Spatial Configurator

³⁾ streaming only

✓ available
— not available

■■■■■ highest feature performance

Intuis SP 4 | Features and Accessories

	4.7 / 4.5 / 4.3 / 4.2 / 4.1	4.0
Type specific features		
Ingress Protection rating	IP68	IP68
Charging contacts	—	—
Battery type / size	675	675
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	○	○
Color conversion kit with Telecoil	—	—
Telecoil	●	●
Battery door – tamper proof	○	○
Battery door – child lock	—	—
Small earhook	○	○
Programming accessories		
Noahlink Wireless	▲	▲
ConnexxAir	—	—
Programming adapter / cable	—	—
Accessories		
miniPocket	○	○
StreamLine TV	○	—
StreamLine Mic	○	—
CROS Pure C&G AX	○	—
CROS Pure 312 AX	○	—
CROS Styletto AX	—	—

▲ mandatory
 ○ optional
 ● available
 — not available

Intuis SP 4 | Further information

Abbreviations

The following abbreviations are used in this data sheet:

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 Simulated 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 EN 60118-0:2015 and ANSI S3.22:2014 if applicable.
- All measurements with an ear simulator were performed according to EN 60118-0:1993 + A1:1994 and to DIN 45605 (frequency range) if applicable.
- All Cellphone Compatibility measurements were performed according to 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 80 % 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 audio streaming from phone to hearing aid and from hearing aid to phone are considered.
- The following acoustic connections/ear pieces were used:
 - Earhook

