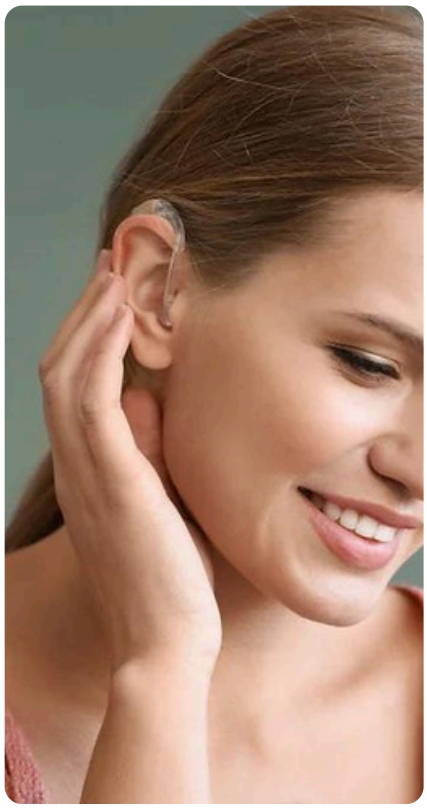
Professional Hearing Solutions

Latest Hearing Aids



DATA SHEET

www.professionalhearingsolution.com

0332-5014111

Life sounds brilliant.

Intuis 3 S / M / P / SP

Technical Data

Intuis 3 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)

Intuis 3 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)

Intuis 3 P

Earhook undamped

- 75 dB / 138 dB SPL (ear simulator)
- 70 dB / 134 dB SPL (2 ccm coupler)

Intuis 3 SP

Earhook undamped

- 84 dB / 144 dB SPL (ear simulator)
- 80 dB / 140 dB SPL (2 ccm coupler)

Intuis 3 S | Technical Data

Type	Earhook damped		LifeTube	
				
Output sound pressure level	**2 ccm coupler**	**Ear simulator**	**2 ccm coupler**	**Ear simulator**
at 1.6 kHz	–	129 dB SPL	–	116 dB SPL
Peak	124 dB SPL	132 dB SPL	124 dB SPL	125 dB SPL
HFA-OSPL 90	121 dB SPL	–	113 dB SPL	–
Gain				
Full on gain (FOG) at 1.6 kHz	–	49 dB	–	48 dB
Full on gain (Peak)	55 dB	62 dB	45 dB	53 dB
HFA-FOG	42 dB	–	41 dB	–
Reference test gain	42 dB	42 dB	36 dB	41 dB
Frequency, noise and directivity				
Frequency range	100-7100 Hz	1000-7100 Hz	100-7100 Hz	280-7100 Hz
Equivalent input noise	20 dB SPL	23 dB SPL	15 dB SPL	15 dB SPL
Total harmonic distortion at 500 / 800 / 1600 Hz	2 / 1 / 1 %	2 / 1 / 1 %	1 / 1 / 2 %	1 / 1 / 2 %
Tinnitus noiser broadband	–	–	–	–
AI-DI	3.5 dB		3.5 dB	
Latency	< 15 ms		< 15 ms	
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 voltage	1.3 V		1.3 V	
Battery current drain	0.9 mA		0.9 mA	
Battery life (cell zinc air)	~125 h		~125 h	
Battery life (rechargeable)	–		–	
IRIL IEC 118-13:2011 (bystander)				
800-960 MHz	<-10 dB SPL		<-10 dB SPL	
1400-2000 MHz	<-10 dB SPL		<-10 dB SPL	
ANSI C63.19	M3		M3	

Intuis 3 M | Technical Data

Type	Earhook damped		LifeTube	
				
Output sound pressure level	**2 ccm coupler**	**Ear simulator**	**2 ccm coupler**	**Ear simulator**
at 1.6 kHz	–	133 dB SPL	–	121 dB SPL
Peak	130 dB SPL	136 dB SPL	125 dB SPL	128 dB SPL
HFA-OSPL 90	126 dB SPL	–	116 dB SPL	–
Gain				
Full on gain (FOG) at 1.6 kHz	–	61 dB	–	54 dB
Full on gain (Peak)	60 dB	68 dB	53 dB	62 dB
HFA-FOG	53 dB	–	46 dB	–
Reference test gain	49 dB	54 dB	39 dB	46 dB
Frequency, noise and directivity				
Frequency range	100-7000 Hz	320-7200 Hz	100-7000 Hz	120-7200 Hz
Equivalent input noise	19 dB SPL	19 dB SPL	19 dB SPL	19 dB SPL
Total harmonic distortion at 500 / 800 / 1600 Hz	2 / 2 / 1 %	2 / 2 / 1 %	1 / 1 / 2 %	1 / 1 / 3 %
Tinnitus noiser broadband	–	–	–	–
AI-DI	3.5 dB		3.5 dB	
Latency	< 15 ms		< 15 ms	
Inductive coil sensitivity				
MASL (1 mA/m) at 1.6 kHz	–	89 dB SPL	–	82 dB SPL
HFA MASL (1 mA/m)	82 dB SPL	–	74 dB SPL	–
HFA SPLITS (left/right)	102 / 105 dB SPL	–	93 / 95 dB SPL	–
RSETS (left/right)	-7 / -4 dB	–	-6 / -4 dB	–
HFA SPLIV	109 dB	–	98 dB	–
Battery				
Battery voltage	1.3 V		1.3 V	
Battery current drain	1.0 mA		1.0 mA	
Battery life (cell zinc air)	~220 h		~220 h	
Battery life (rechargeable)	–		–	
IRIL IEC 118-13:2011 (bystander)				
800-960 MHz	<-20 dB SPL		<-20 dB SPL	
1400-2000 MHz	<-15 dB SPL		<-15 dB SPL	
ANSI C63.19	M4 / T2		M4 / T2	

Intuis 3 P | Technical Data

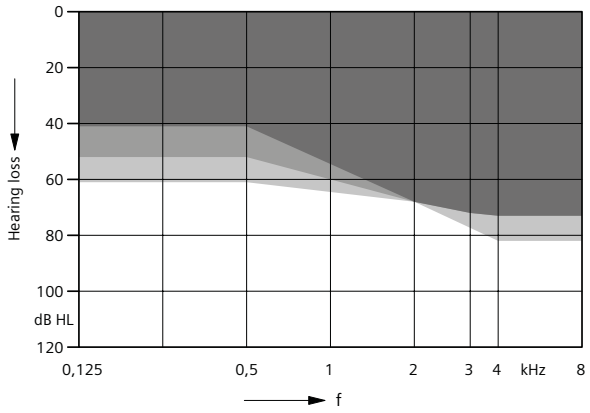
Type	Earhook undamped	
		
Output sound pressure level	**2 ccm coupler**	**Ear simulator**
at 1.6 kHz	–	133 dB SPL
Peak	134 dB SPL	138 dB SPL
HFA-OSPL 90	127 dB SPL	–
Gain		
Full on gain (FOG) at 1.6 kHz	–	69 dB
Full on gain (Peak)	70 dB	75 dB
HFA-FOG	64 dB	–
Reference test gain	50 dB	58 dB
Frequency, noise and directivity		
Frequency range	110-6000 Hz	170-6700 Hz
Equivalent input noise	24 dB SPL	24 dB SPL
Total harmonic distortion at 500 / 800 / 1600 Hz	3 / 2 / 1 %	4 / 4 / 1 %
Tinnitus noiser broadband	–	–
AI-DI	3.5 dB	
Latency	< 15 ms	< 15 ms
Inductive coil sensitivity		
MASL (1 mA/m) at 1.6 kHz	–	97 dB SPL
HFA MASL (1 mA/m)	93 dB SPL	–
HFA SPLITS (left/right)	110 / 107 dB SPL	–
RSETS (left/right)	0 / -3 dB	–
HFA SPLIV	109 dB	–
Battery		
Battery voltage	1.3 V	
Battery current drain	1.4 mA	
Battery life (cell zinc air)	~160 h	
Battery life (rechargeable)	–	
IRIL IEC 118-13:2011 (bystander)		
800-960 MHz	<-35 dB SPL	
1400-2000 MHz	<-24 dB SPL	
ANSI C63.19	M3 / T3	

Intuis 3 SP | Technical Data

Type	Earhook undamped	
		
Output sound pressure level	**2 ccm coupler**	**Ear simulator**
at 1.6 kHz	–	139 dB SPL
Peak	140 dB SPL	144 dB SPL
HFA-OSPL 90	133 dB SPL	–
Gain		
Full on gain (FOG) at 1.6 kHz	–	76 dB
Full on gain (Peak)	80 dB	84 dB
HFA-FOG	72 dB	–
Reference test gain	56 dB	64 dB
Frequency, noise and directivity		
Frequency range	100-5600 Hz	100-5900 Hz
Equivalent input noise	24 dB SPL	26 dB SPL
Total harmonic distortion at 500 / 800 / 1600 Hz	3 / 2 / 1 %	7 / 3 / 2 %
Tinnitus noiser broadband	–	–
AI-DI	3.6 dB	
Latency	< 15 ms	< 15 ms
Inductive coil sensitivity		
MASL (1 mA/m) at 1.6 kHz	–	107 dB SPL
HFA MASL (1 mA/m)	102 dB SPL	–
HFA SPLITS (left/right)	115 / 112 dB SPL	–
RSETS (left/right)	-1 / -4 dB	–
HFA SPLIV	116 dB	–
Battery		
Battery voltage	1.3 V	
Battery current drain	2.4 mA	
Battery life (cell zinc air)	~160 h	
Battery life (rechargeable)	–	
IRIL IEC 118-13:2011 (bystander)		
800-960 MHz	<-34 dB SPL	
1400-2000 MHz	<-34 dB SPL	
ANSI C63.19	M3 / T4	

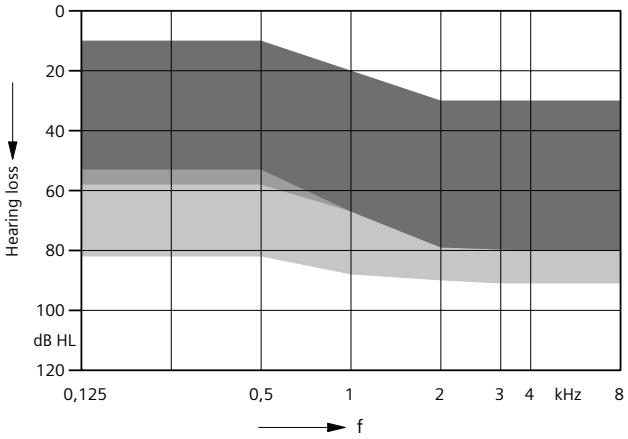
Fitting Range

Intuis 3 S



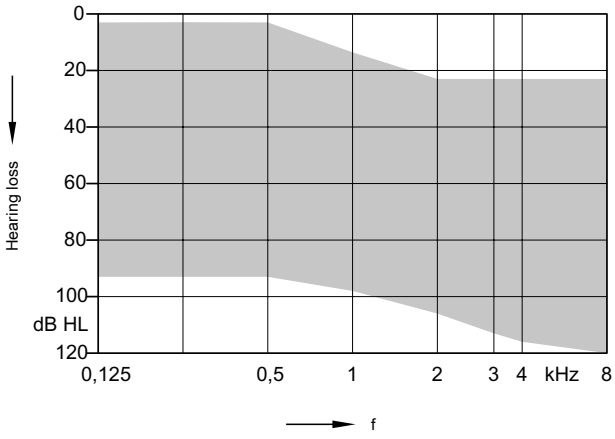
LifeTube open
LifeTube double
Earhook damped

Intuis 3 M



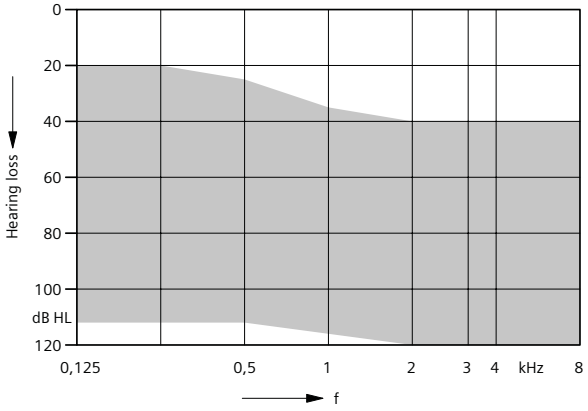
LifeTube open
LifeTube double
Earhook damped

Intuis 3 P



Earhook undamped

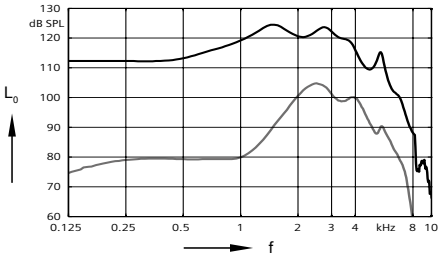
Intuis 3 SP



Earhook undamped

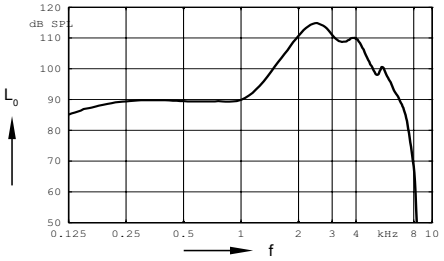
Intuis 3 S (Earhook damped) | Basic Data

2 ccm coupler



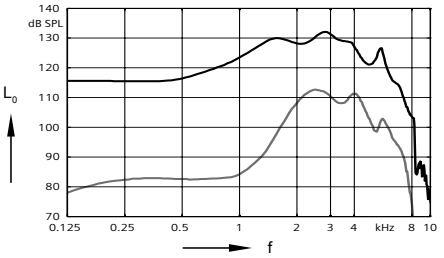
Output sound pressure level (L_I = 90 dB)

Full on gain (L_I = 50 dB)



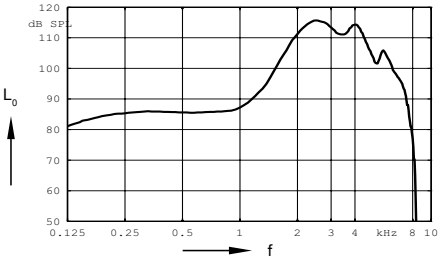
Frequency response (L_I = 60 dB)

Ear simulator



Output sound pressure level (L_I = 90 dB)

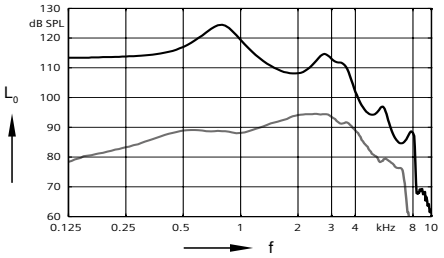
Full on gain (L_I = 50 dB)



Basic acoustic response (L_I = 60 dB)

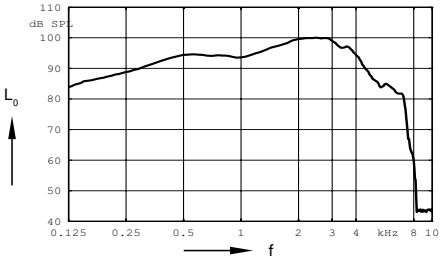
Intuis 3 S (LifeTube) | Basic Data

2 ccm coupler



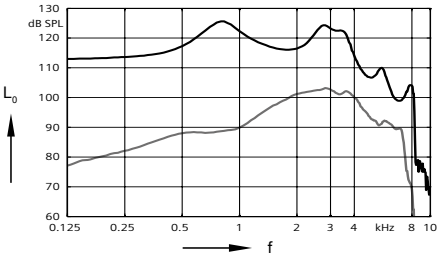
Output sound pressure level (L_I = 90 dB)

Full on gain (L_I = 50 dB)



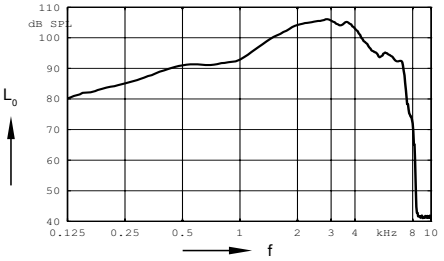
Frequency response (L_I = 60 dB)

Ear simulator



Output sound pressure level (L_I = 90 dB)

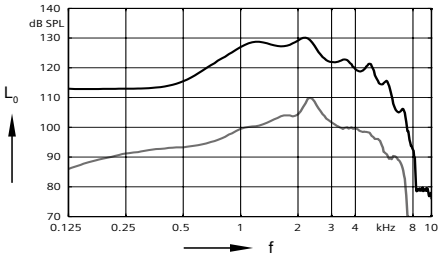
Full on gain (L_I = 50 dB)



Basic acoustic response (L_I = 60 dB)

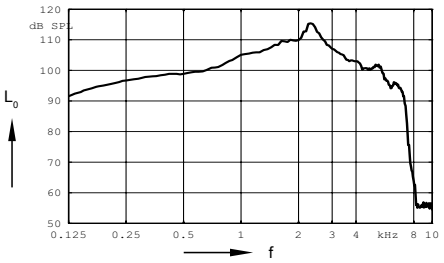
Intuis 3 M (Earhook damped) | Basic Data

2 ccm coupler



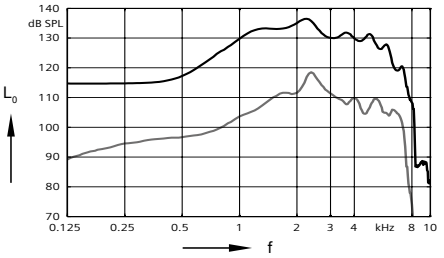
Output sound pressure level (L_I = 90 dB)

Full on gain (L_I = 50 dB)



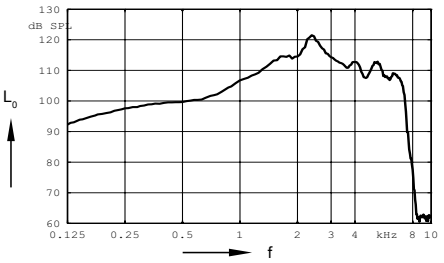
Frequency response (L_I = 60 dB)

Ear simulator



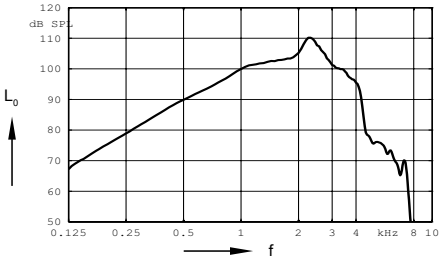
Output sound pressure level (L_I = 90 dB)

Full on gain (L_I = 50 dB)

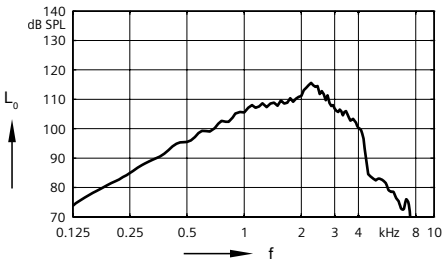


Basic acoustic response (L_I = 60 dB)

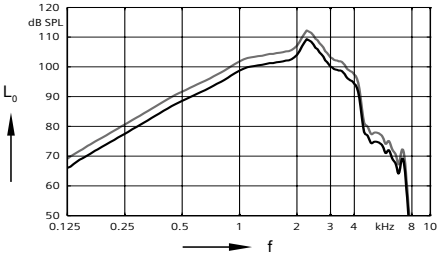
Inductive response



Inductive response (H = 10 mA/m)



SPLIV curve (H = 31.6 mA/m)

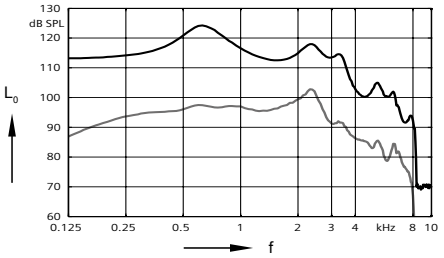


SPLITS curve left (H = 31.6 mA/m)

SPLITS curve right (H = 31.6 mA/m)

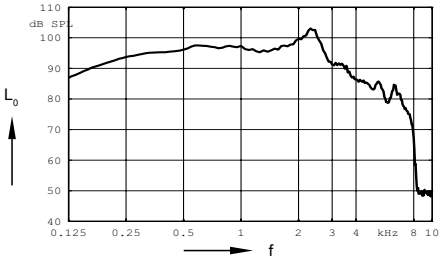
Intuis 3 M (LifeTube) | Basic Data

2 ccm coupler



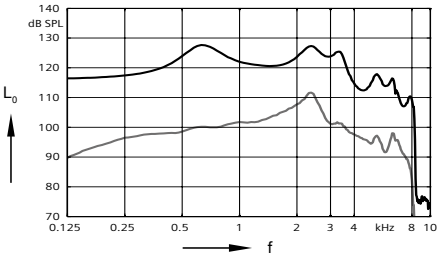
Output sound pressure level (L_I = 90 dB)

Full on gain (L_I = 50 dB)



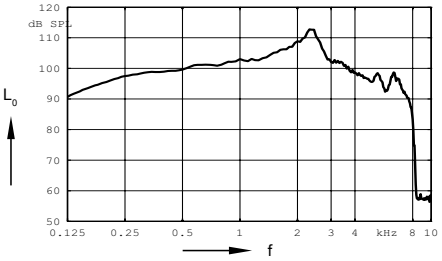
Frequency response (L_I = 60 dB)

Ear simulator



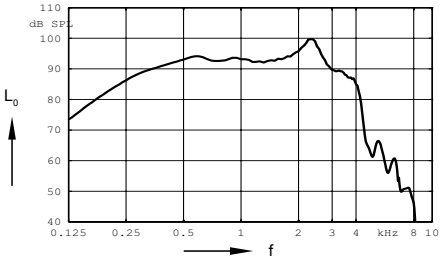
Output sound pressure level (L_I = 90 dB)

Full on gain (L_I = 50 dB)

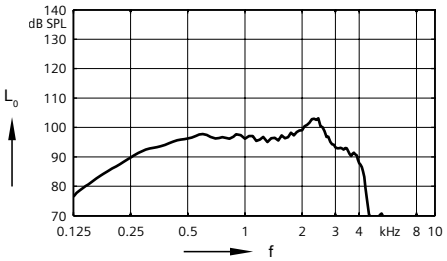


Basic acoustic response (L_I = 60 dB)

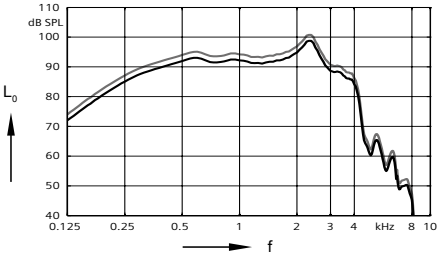
Inductive response



Inductive response (H = 10 mA/m)



SPLIV curve (H = 31.6 mA/m)

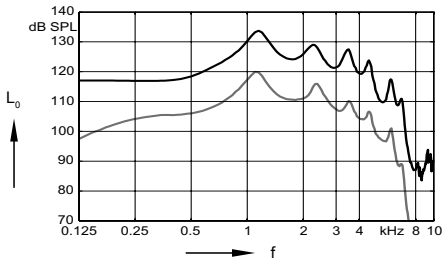


SPLITS curve left (H = 31.6 mA/m)

SPLITS curve right (H = 31.6 mA/m)

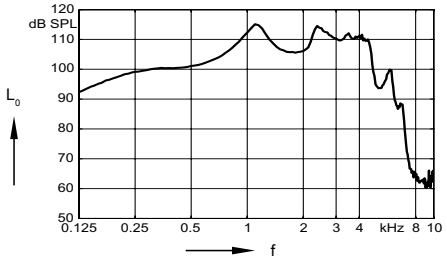
Intuis 3 P (Earhook undamped) | Basic Data

2 ccm coupler



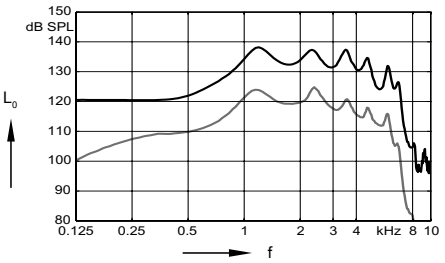
Output sound pressure level (L_I = 90 dB)

Full on gain (L_I = 50 dB)



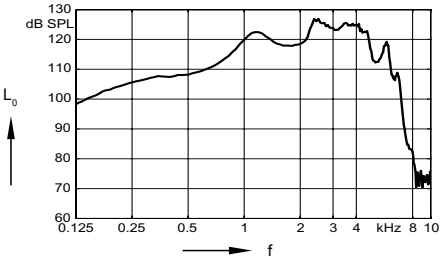
Frequency response (L_I = 60 dB)

Ear simulator



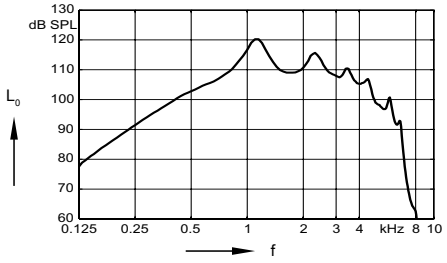
Output sound pressure level (L_I = 90 dB)

Full on gain (L_I = 50 dB)

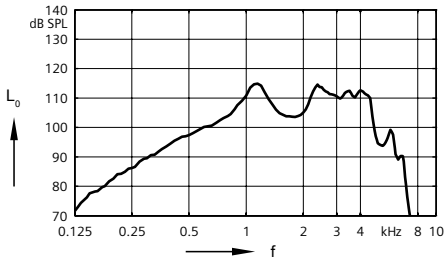


Basic acoustic response (L_I = 60 dB)

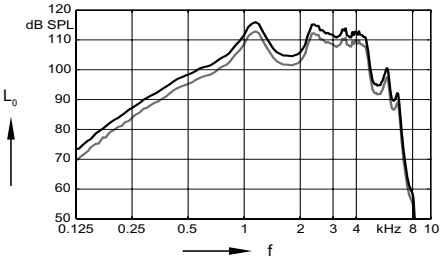
Inductive response



Inductive response (H = 10 mA/m)



SPLIV curve (H = 31.6 mA/m)

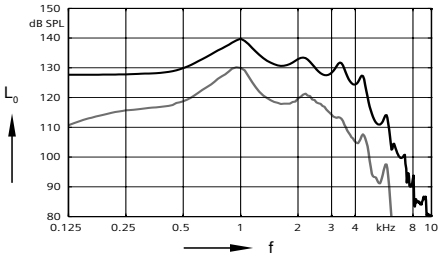


SPLITS curve left (H = 31.6 mA/m)

SPLITS curve right (H = 31.6 mA/m)

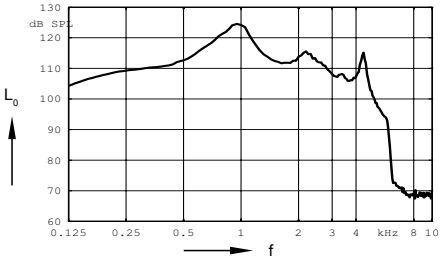
Intuis 3 SP (Earhook undamped) | Basic Data

2 ccm coupler



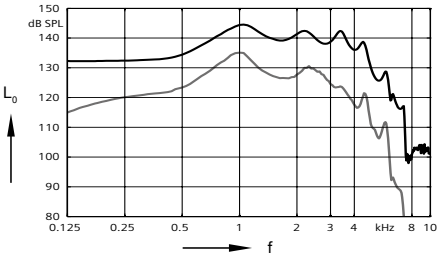
Output sound pressure level (L_I = 90 dB)

Full on gain (L_I = 50 dB)



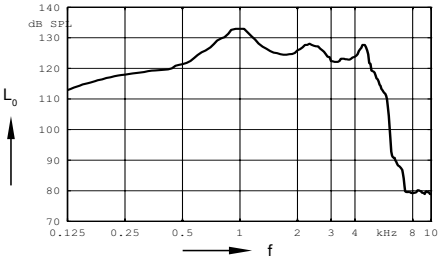
Frequency response (L_I = 60 dB)

Ear simulator



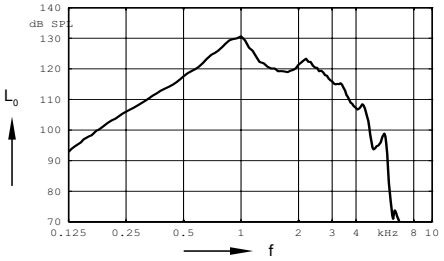
Output sound pressure level (L_I = 90 dB)

Full on gain (L_I = 50 dB)

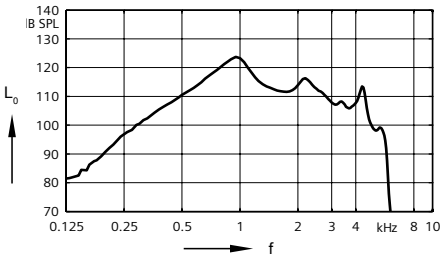


Basic acoustic response (L_I = 60 dB)

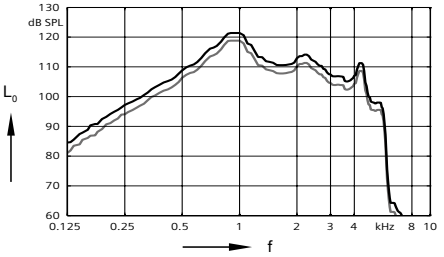
Inductive response



Inductive response (H = 10 mA/m)



SPLIV curve (H = 31.6 mA/m)



SPLITS curve left (H = 31.6 mA/m)

SPLITS curve right (H = 31.6 mA/m)

Intuis 3 | Features and Accessories

	S / M / P / SP
Audiology	
Signal processing (channels) **/ Gain/MPO** (handles)	12 / 6
Hearing programs	4
SpeechMaster	—
HD Music (presets)	—
TwinPhone[1)]	—
EchoShield	—
Wireless CROS/BICROS[2)]	—
Directionality (channels)	12
Narrow Directionality[1)]	—
Directional microphone	●
Spatial SpeechFocus[1)]	—
SpeechFocus	—
TruEar™	—
Frequency compression	—
Extended bandwidth	—
Feedback cancellation	●
eWindScreen binaural[1)]	—
eWindScreen™ (steps)	—
Noise Reduction (channels / steps)	—
Speech and noise management (steps)	12 / on / off
SoundSmoothing™ (steps)	—
Directional speech enhancement (steps)	—
Adaptive streaming volume[3)]	—
SoundBrilliance™ [3)]	—
Sound equalizer (classes)	—
Spatial Configurator[1)]	—
Span[4)]	—
Direction[5)]	—
SoundBalance	—
Fitting	
Insitugram	●
Learning (classes) **/ Data logging**	— / ●
Acclimatization manager	—
Tinnitus	
Tinnitus noiser	
Static therapy signal (handles / presets)	—
Ocean Waves therapy signal (presets)	—
Notch therapy	—

Intuis 3 | Features and Accessories

	S	M	P	SP
Style Specific Features				
Ingress Protection Rating	IP67	IP67	—	—
Telecoil	—	●	●	●
AutoPhone™	—	—	—	—
Charging contacts	—	—	—	—
Battery Size	312	13	13	675
Battery door on/off function	●	●	●	●
Nanocoated housing	●	●	●	●
e2e wireless™ 3.0	—	—	—	—
Audio streaming	—	—	—	—
User controls coupling via e2e	—	—	—	—
Wireless programming	—	—	—	—
Instrument configurations				
Flat cover	—	—	—	—
Push button	●	—	●	●
Rocker switch	—	●	●	●
Color conversion kit	○	○	—	—
Battery door – direct audio input	—	○	○	○
Battery door – child lock	—	—	—	—
Tamperproof battery door	—	○	—	—
Small earhook	○	○	—	○
Programming Accessories				
ConnexxLink, ConnexxLink™	—	—	—	—
Programming adapter / cable	size 312	size 13	Programming shoe / CS44	Programming shoe / CS44
Accessories				
miniPocket	○	○	○	○
CROS Pure	—	—	—	—
eCharger	—	—	—	—
easyPocket™	—	—	—	—
easyTek	—	—	—	—
TV Transmitter (req. easyTek)	—	—	—	—
Transmitter (req. easyTek)	—	—	—	—
VoiceLink™ (req. easyTek)	—	—	—	—
App				
easyTek App (req. easyTek)	—	—	—	—
touchControl App™	○	○	○	○

● available ■■■■■ highest feature performance ○ optional — not available

[1] req. bilateral fitting and e2e™ 3.0
[2] req. CROS Pure accessory
[3] streaming only, req. easyTek™
[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
SPLIV	SPL In a Vertical magnetic field
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 S3.22-2014 and IEC 60118-7:2005 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.
- 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:
  - LifeTube
  - Earhook

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