

INTUIS 3 RIC 312

Technical Data



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)

INTUIS 3 RIC 312 | Technical Data

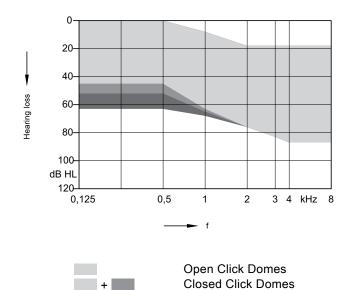
2 ccm coupler Ear simulator 2 ccm coupler Ear simu	lator	
Output sound pressure level		
at 1.6 kHz – 109 dB SPL – 122 dB S		
Peak 108 dB SPL 119 dB SPL 119 dB SPL 129 dB SPL	SPL	
HFA-OSPL 90 102 dB SPL – 114 dB SPL –		
Gain		
Full on gain (FOG) at 1.6 kHz – 43 dB – 55 dB	3	
Full on gain (Peak) 45 dB 56 dB 60 dB 70 dB	3	
HFA-FOG 37 dB – 50 dB –		
Reference test gain 25 dB 34 dB 37 dB 47 dB	3	
Frequency, noise and directivity		
Frequency range 100-8200 Hz 100-8300 Hz 100-8200 Hz 100-8300) Hz	
Equivalent input noise 18 dB SPL 22 dB SPL 19 dB SPL 23 dB S	PL	
Total harmonic distortion at 500 / 800 / 1600 Hz	%	
Tinnitus noiser broadband – – – – –		
AI-DI 3.8 dB 3.8 dB	3.8 dB	
Inductive coil sensitivity		
MASL (1 mA/m) at 1.6 kHz – 75 dB SPL – 85 dB S	PL	
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 SPL1 / -1 dB SPL -		
Battery		
Battery voltage 1.3 V 1.3 V	1.3 V	
Battery current drain 0.9 mA 1.0 mA	1.0 mA	
Battery life (cell zinc air) ~130 h ~120 h	~120 h	
Battery life (rechargeable) – –		
IRIL IEC 118-13:2011 (bystander)		
800-960 MHz <-6 dB SPL <-6 dB SPL	<-6 dB SPL	
1400-2000 MHz <-24 dB SPL <-24 dB SPL	<-24 dB SPL	
ANSI C63.19 M4 / T4 M4 / T4	M4 / T4	

INTUIS 3 RIC 312 | Technical Data

Туре	P-Receiver		HP-Receiver		
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator	
Output sound pressure level		400 10 001		107 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	100-7800 Hz	100-7800 Hz	100-7400 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 noiser broadband		_	-	-	
AI-DI	3.8	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 V		1.3 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 dB SPL		<-6 dB SPL		
1400-2000 MHz	<-24 dB SPL		<-24 dB SPL		
ANSI C63.19	M4 / T4		M4 / T4		

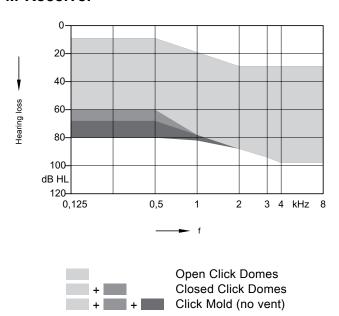
INTUIS 3 RIC 312 | Fitting Range

S-Receiver

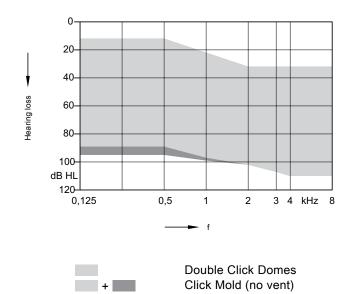


Click Mold (no vent)

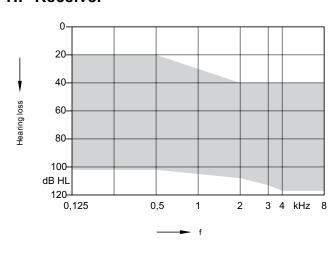
M-Receiver



P-Receiver



HP-Receiver



Custom Shell (no vent)

S-Receiver (Closed Click Dome) | Basic Data

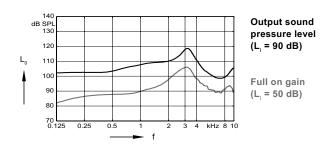
2 ccm coupler

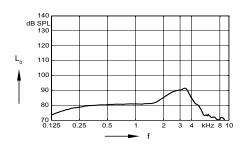
120 110 100 90 80 70 0.125

Output sound pressure level (L_i = 90 dB)

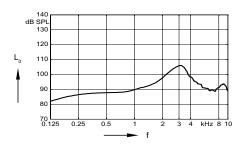
Full on gain (L = 50 dB)

Ear simulator



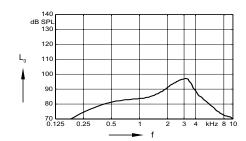


Frequency response (L = 60 dB)

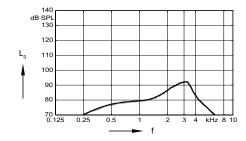


Basic acoustic response (L = 60 dB)

Inductive response



Inductive response (H = 10 mA/m)



SPLITS curve left (H = 31.6 mA/m)

M-Receiver (Closed Click Dome) | Basic Data

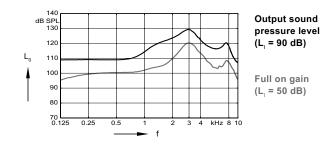
2 ccm coupler

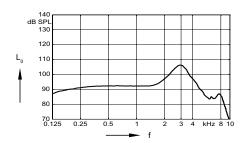
120 110 100 90 80 70 0.125

Output sound pressure level (L_i = 90 dB)

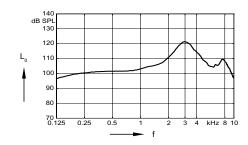
Full on gain (L = 50 dB)

Ear simulator



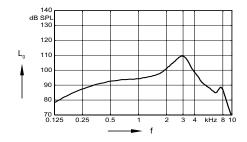


Frequency response $(L_1 = 60 \text{ dB})$

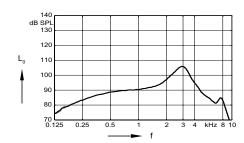


Basic acoustic response (L = 60 dB)

Inductive response



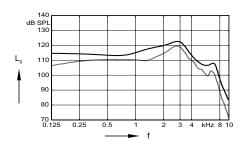
Inductive response (H = 10 mA/m)



SPLITS curve left (H = 31.6 mA/m)

P-Receiver (Click mold) | Basic Data

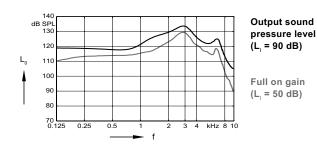
2 ccm coupler

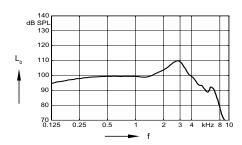


Output sound pressure level (L_i = 90 dB)

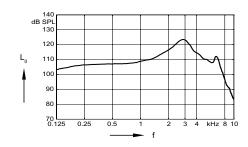
Full on gain (L = 50 dB)

Ear simulator



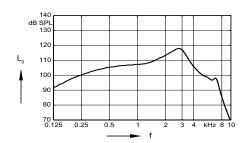


Frequency response (L_| = 60 dB)

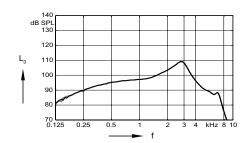


Basic acoustic response (L = 60 dB)

Inductive response



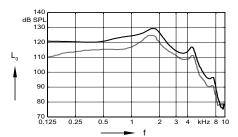
Inductive response (H = 10 mA/m)



SPLITS curve left (H = 31.6 mA/m)

HP-Receiver (Custom Shell) | Basic Data

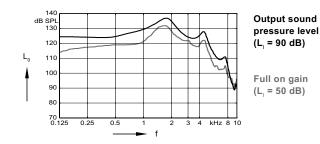
2 ccm coupler

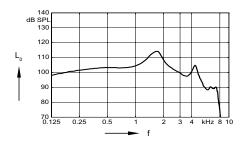


Output sound pressure level (L_i = 90 dB)

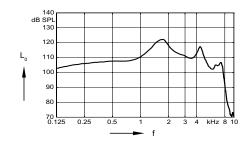
Full on gain (L = 50 dB)

Ear simulator



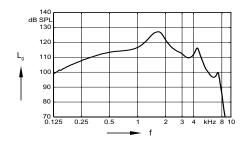


Frequency response (L_| = 60 dB)

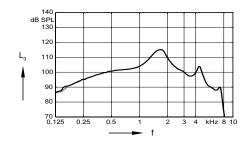


Basic acoustic response (L = 60 dB)

Inductive response



Inductive response (H = 10 mA/m)



SPLITS curve left (H = 31.6 mA/m)

INTUIS 3 RIC 312 | Features and Accessories

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⁾	
Automatic 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 ^{TM 3)}	<u> </u>
Sound equalizer (classes)	
Spatial Configurator¹)	
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 RIC 312 | Features and Accessories

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	_
Instrument configurations	
Flat cover	\circ
Rotary volume control	_
Push button	
Rocker switch	•
Color conversion kit	\circ
Battery door – direct audio input	
Battery door – child lock	
Small earhook	_
Programming Accessories	
ConnexxAir, ConnexxLink™	
Programming adapter / cable	size 312
Accessories	
miniPocket	0
CROS Pure	_
eCharger	_
easyPocket™	_
easyTek	_
TV Transmitter (req. easyTek)	
Transmitter (req. easyTek)	
VoiceLink™ (req. easyTek)	_
Арр	
easyTek App (req. easyTek)	
touchControl App	

lacktriangle available lacktriangle highest feature performance lacktriangle 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

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 Dome
 - P-Receiver Unit: Click MoldHP-Receiver Unit: Custom Shell

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.



Signia GmbH Henri-Dunant-Strasse 100 91058 Erlangen Germany Phone +49 9131 308 0

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Warning

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.



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.