

Insio Nx

Technical Data

7Nx

5Nx

3Nx

CIC

113/50

- 64 dB / 124 dB SPL (ear simulator)
- 50 dB / 113 dB SPL (2 ccm coupler)

118/55

- 65 dB / 128 dB SPL (ear simulator)
- 55 dB / 118 dB SPL (2 ccm coupler)

124/65

- 75 dB / 135 dB SPL (ear simulator)
- 65 dB / 124 dB SPL (2 ccm coupler)

IIC

113/50

- 60 dB / 123 dB SPL (ear simulator)
- 50 dB / 113 dB SPL (2 ccm coupler)

Insio Nx CIC | Technical Data

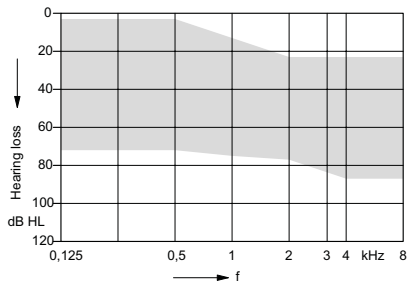
| Type | 113/50 | | 118/55 | | 124/65 | |
|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|
| | 2 ccm coupler | Ear simulator | 2 ccm coupler | Ear simulator | 2 ccm coupler | Ear simulator |
| Output sound pressure level | | | | | | |
| at 1.6 kHz | – | 116 dB SPL | – | 119 dB SPL | – | 127 dB SPL |
| Peak | 113 dB SPL | 124 dB SPL | 118 dB SPL | 128 dB SPL | 124 dB SPL | 135 dB SPL |
| HFA-OSPL 90 | 108 dB SPL | – | 112 dB SPL | – | 119 dB SPL | – |
| Gain | | | | | | |
| Full on gain (FOG) at 1.6 kHz | – | 51 dB | – | 55 dB | – | 66 dB |
| Full on gain (Peak) | 50 dB | 60 dB | 55 dB | 65 dB | 65 dB | 75 dB |
| HFA-FOG | 45 dB | – | 48 dB | – | 59 dB | – |
| Reference test gain | 32 dB | 41 dB | 35 dB | 45 dB | 42 dB | 51 dB |
| Frequency, noise and directivity | | | | | | |
| Frequency range 7Nx 5Nx / 3Nx | 100-10000 Hz 100-8100 Hz | 120-10000 Hz 150-8100 Hz | 100-10000 Hz 100-8000 Hz | 100-10000 Hz 100-8000 Hz | 100-9200 Hz 100-8100 Hz | 100-9200 Hz 100-8100 Hz |
| Equivalent input noise | 18 dB SPL | 18 dB SPL | 18 dB SPL | 18 dB SPL | 18 dB SPL | 19 dB SPL |
| Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz | 3 / 3 / 2 / 1 % | 4 / 5 / 4 / – % | 2 / 2 / 2 / 1 % | 2 / 2 / 2 / – % | 2 / 2 / 1 / 1 % | 3 / 4 / 2 / – % |
| Tinnitus noiser broadband | 70 dB | – | 75 dB | – | 80 dB | – |
| AI-DI | – | – | – | – | – | – |
| 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 | | 1.3 V | |
| Battery current drain | 1.3 mA | 1.3 mA | 1.3 mA | 1.3 mA | 1.3 mA | 1.3 mA |
| Battery life (cell zinc air) Type 10 | ~ 55 h | | ~ 55 h | | ~ 55 h | |
| Battery life (rechargeable) | – | | – | | – | |
| IRIL IEC 60118-13:2016 Ed. 4.0 | | | | | | |
| 700-960 MHz (rating) | user | | user | | user | |
| 1400-2000 MHz (rating) | user | | user | | user | |
| 2000-2700 MHz (rating) | user | | user | | user | |
| ANSI C63.19-2011 | | | | | | |
| 800-950 MHz (rating) | M4 | | M4 | | M4 | |
| 1600-2500 MHz (rating) | M4 | | M4 | | M4 | |

Insio Nx IIC | Technical Data

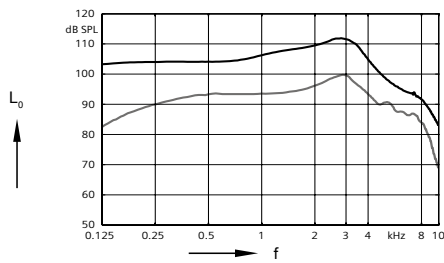
| Type | 113/50 | |
|---|----------------|-----------------|
| | 2 ccm coupler | Ear simulator |
| Output sound pressure level | | |
| at 1.6 kHz | – | 116 dB SPL |
| Peak | 113 dB SPL | 123 dB SPL |
| HFA-OSPL 90 | 109 dB SPL | – |
| Gain | | |
| Full on gain (FOG) at 1.6 kHz | – | 53 dB |
| Full on gain (Peak) | 50 dB | 60 dB |
| HFA-FOG | 46 dB | – |
| Reference test gain | 32 dB | 41 dB |
| Frequency, noise and directivity | | |
| Frequency range 7Nx | 100-7900 Hz | 150-8900 Hz |
| 5Nx / 3Nx | 100-7900 Hz | 150-8100 Hz |
| Equivalent input noise | 21 dB SPL | 21 dB SPL |
| Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz | 2 / 2 / 2 / 1% | 3 / 4 / 3 / – % |
| Tinnitus noiser broadband | 70 dB | – |
| AI-DI | – | |
| 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 | |
| Battery current drain | 1.3 mA | 1.3 mA |
| Battery life (cell zinc air) Type 10 | ~ 55 h | |
| Battery life (rechargeable) | – | |
| IRIL IEC 60118-13:2016 Ed. 4.0 | | |
| 700-960 MHz (rating) | user | |
| 1400-2000 MHz (rating) | user | |
| 2000-2700 MHz (rating) | user | |
| ANSI C63.19-2011 | | |
| 800-950 MHz (rating) | M4 | |
| 1600-2500 MHz (rating) | M4 | |

Insio Nx CIC | Basic Data

113/50

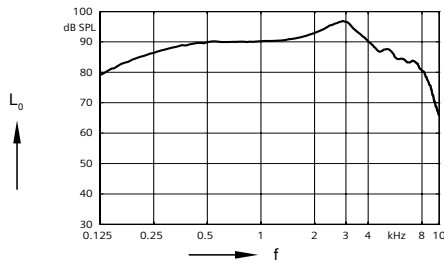


2 ccm coupler



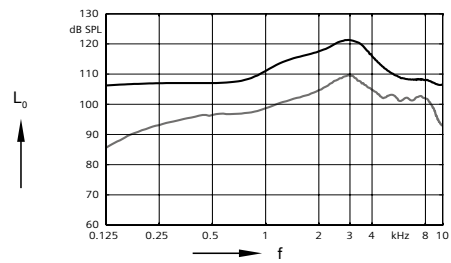
Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)



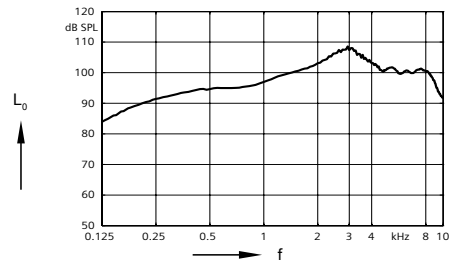
Frequency response
($L_1 = 60$ dB)

Ear simulator



Output sound pressure level
($L_1 = 90$ dB)

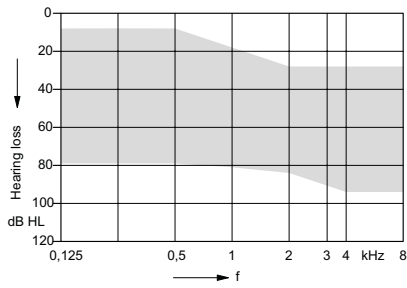
Full on gain
($L_1 = 50$ dB)



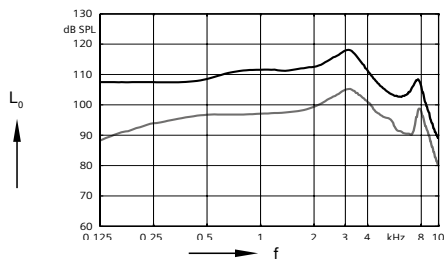
Basic acoustic response
($L_1 = 60$ dB)

Insio Nx CIC | Basic Data

118/55

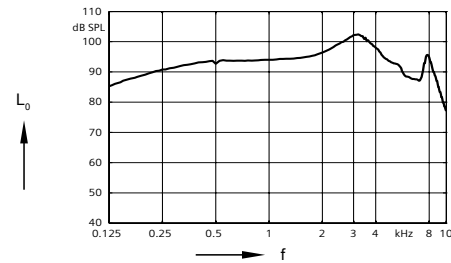


2 ccm coupler



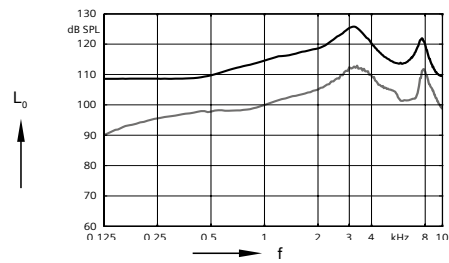
Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)



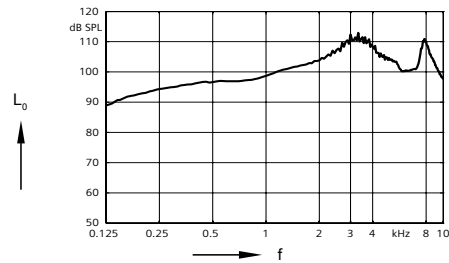
Frequency response
($L_1 = 60$ dB)

Ear simulator



Output sound pressure level
($L_1 = 90$ dB)

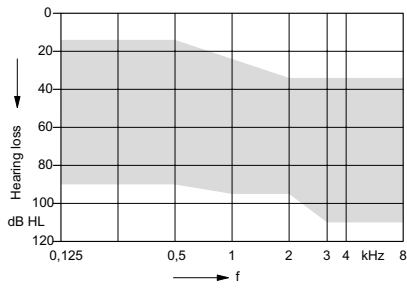
Full on gain
($L_1 = 50$ dB)



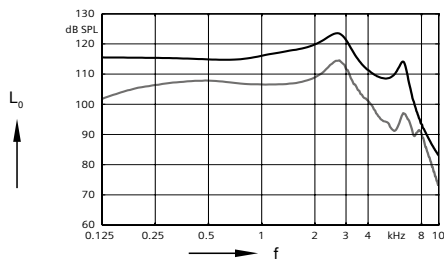
Basic acoustic response
($L_1 = 60$ dB)

Insio Nx CIC | Basic Data

124/65

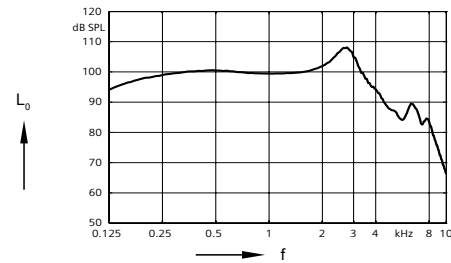


2 ccm coupler



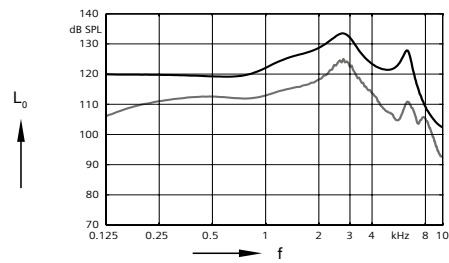
Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)



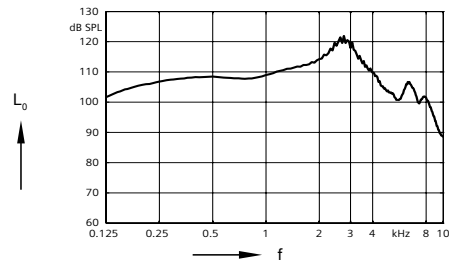
Frequency response
($L_1 = 60$ dB)

Ear simulator



Output sound pressure level
($L_1 = 90$ dB)

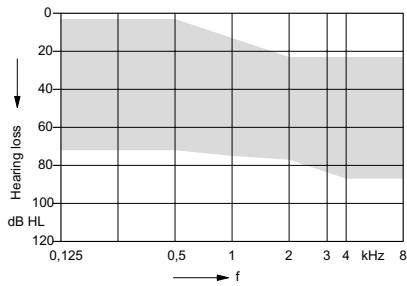
Full on gain
($L_1 = 50$ dB)



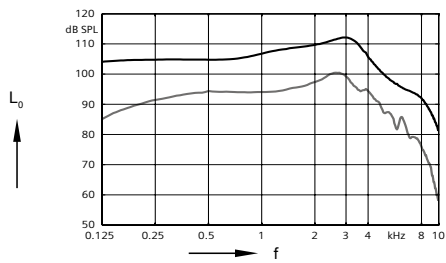
Basic acoustic response
($L_1 = 60$ dB)

Insio Nx IIC | Basic Data

113/50



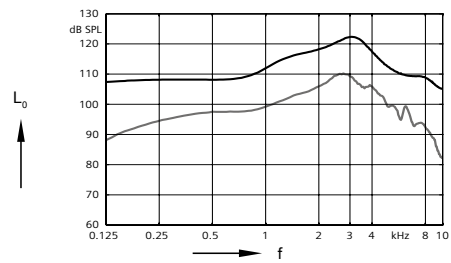
2 ccm coupler



Output sound pressure level
($L_1 = 90$ dB)

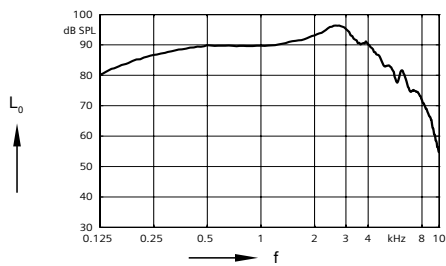
Full on gain
($L_1 = 50$ dB)

Ear simulator

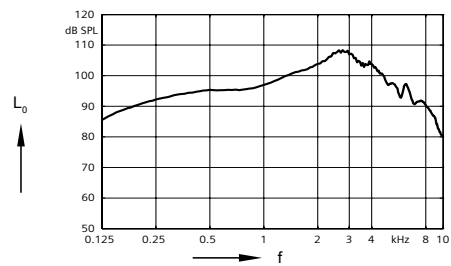


Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)



Frequency response
($L_1 = 60$ dB)



Basic acoustic response
($L_1 = 60$ dB)

Insio Nx | Features and Accessories

| | CIC / IIC | | |
|---|-----------|---------|---------|
| | 7Nx | 5Nx | 3Nx |
| Audiology | | | |
| Own Voice Processing (OVP) ¹⁾ | — | — | — |
| 3D Classifier | — | — | — |
| Signal processing (channels) / Gain/MPO (handles) | 48 / 20 | 32 / 16 | 24 / 12 |
| Hearing programs | 6 | 6 | 6 |
| Sound Clarity | | | |
| HD Spatial | — | — | — |
| Extended dynamic range | ● | ● | ● |
| Extended bandwidth | ● | — | — |
| EchoShield | ● | — | — |
| HD Music (presets) | 3 | 1 | — |
| eWindScreen binaural ^{1) 2)} | — | — | — |
| eWindScreen | ● | ● | ● |
| Noise Management | ● | ● | ● |
| Speech and noise management (steps) | 7 | 5 | 3 |
| SoundSmoothing (steps) | 3 | 3 | 1 |
| Directional speech enhancement (steps) | 1 | 1 | — |
| Feedback cancellation | ● | ● | ● |
| Speech Quality | | | |
| Directionality | | | |
| Binaural OneMic Directionality ¹⁾ | ● | ● | ● |
| Narrow Directionality ¹⁾ | — | — | — |
| Spatial SpeechFocus ^{1) 3)} | — | — | — |
| SpeechFocus | — | — | — |
| TwinPhone ¹⁾ | ● | ● | ● |
| Frequency compression | ● | ● | ● |
| Direct Streaming | | | |
| Made for iPhone | — | — | — |
| Adaptive Streaming Volume ⁴⁾ | — | — | — |
| Tinnitus | | | |
| Notched Noise Therapy | ● | ● | ● |
| Tinnitus noiser | ● | ● | ● |
| Fitting | | | |
| Smart Optimizer and Data Logging | ● | ● | ● |
| Acclimatization manager | ● | ● | ● |
| Performance Guide | ● | ● | ● |
| Insitugram | ● | ● | ● |
| Learning (classes) | 6 | 3 | 1 |
| TeleCare | | | |
| TeleCare 3.0 | — | — | — |

¹⁾ req. bilateral fitting

²⁾ not available in the universal program on 5Nx

³⁾ for 5Nx in Stroll Program or with Spatial Configurator only

⁴⁾ streaming only

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

Insio Nx | Features and Accessories

| | CIC | IIC |
|-----------------------------------|----------------|-----|
| Style Specific Features | | |
| Ingress Protection Rating | — | — |
| Charging contacts | — | — |
| Battery Size | 10 | 10 |
| Battery door on/off function | ● | ● |
| Nanocoated housing | — | — |
| e2e wireless 3.0 | ● | ● |
| User controls coupling via e2e | ● | ● |
| Wireless programming | ● | ● |
| Instrument configurations | | |
| Flat cover | — | — |
| Rotary volume control | — | — |
| Push button | ○ | — |
| Rocker switch | — | — |
| Color conversion kit | — | — |
| Battery door – direct audio input | — | — |
| Battery door – child lock | — | — |
| Small earhook | — | — |
| Programming Accessories | | |
| ConnexxAir, ConnexxLink | ● | ● |
| NoahLink wireless | — | — |
| Programming adapter / cable | Flex connector | — |
| Accessories | | |
| miniPocket | ○ | ○ |
| StreamLine TV | — | — |
| App | | |
| myControlApp | — | — |
| touchControl App | ○ | ○ |

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

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 S3.22-2014 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.
- ▶ 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.
- ▶ Inductive coil sensitivity values, inductive response curves and T ratings apply for instruments with telecoil battery door only.
- ▶ 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 current consumption is measured in reference test setting (RTS) according to the applicable standards. Due to the settling behaviour of hearing instruments supporting RF (radio frequency), the battery current is measured 3 minutes after turning on (note: no pairing).
- ▶ The battery life 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 life is determined by battery quality, hearing loss, sound environment, usage and activated feature set.
- ▶ Extended frequency range up to 12 kHz for 7Nx 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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Order No. 03441-99T1-7600
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www.signia-hearing.com



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.