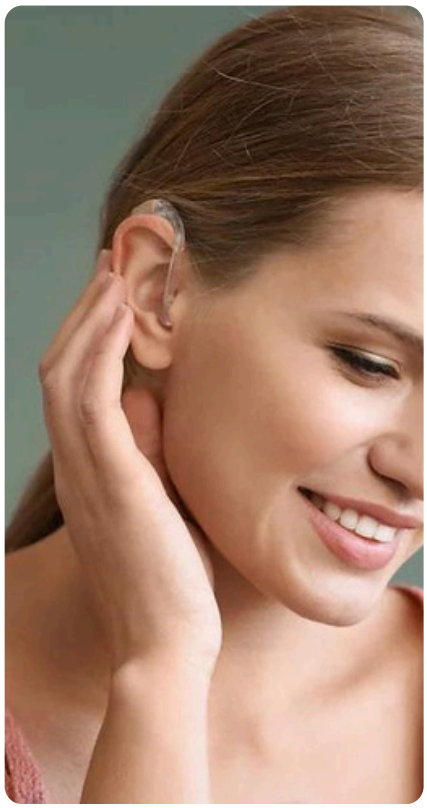
Professional Hearing Solutions

# Latest Hearing Aids







# DATA SHEET

**www.professionalhearingsolution.com**

**0332-5014111**



# Arena P 1

Data Sheet

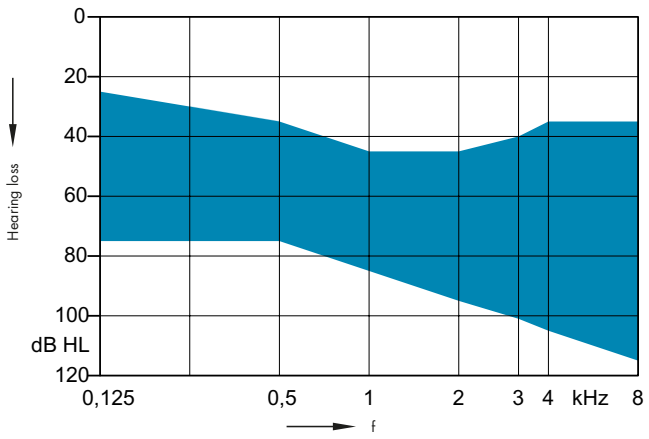
www.rexton.com

REXTON

# Arena P 1 · Technical Data

| Type | Earhook undamped | |
|---|---|---|
| |  | |
| Output sound pressure level | 2 ccm coupler | Ear simulator |
| at 1.6 kHz | – | 132 dB SPL |
| Peak | 130 dB SPL | 136 dB SPL |
| HFA-OSPL 90 | 125 dB SPL | – |
| Gain | | |
| Full on gain (FOG) at 1.6 kHz | – | 59 dB |
| Full on gain (Peak) | 62 dB | 71 dB |
| HFA-FOG | 58 dB | – |
| Reference test gain | 48 dB | 52 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 % |
| Broadband tinnitus function | – | – |
| 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) | – | – |
| Battery | | |
| Battery voltage | 1.3 V | |
| Battery current drain | 1.1 mA | |
| Battery life (cell zinc air) | ~200 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 | |

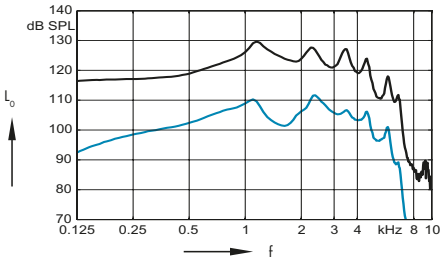
# Fitting Range




Earhook undamped

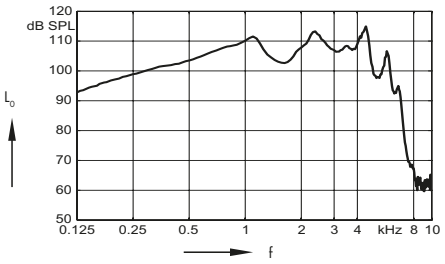
# Arena P 1 (Earhook undamped) · Basic Data

## 2 ccm coupler



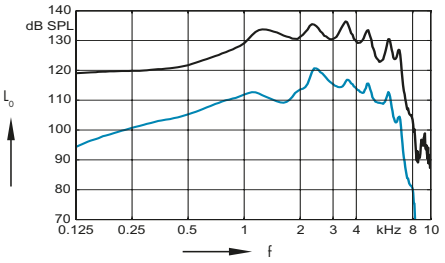

Output sound pressure level
($L_I$ = 90 dB)

Full on gain
($L_I$ = 50 dB)



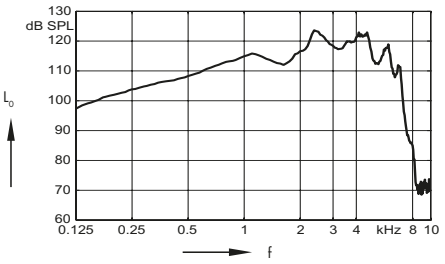

Frequency response
($L_I$ = 60 dB)

## Ear simulator



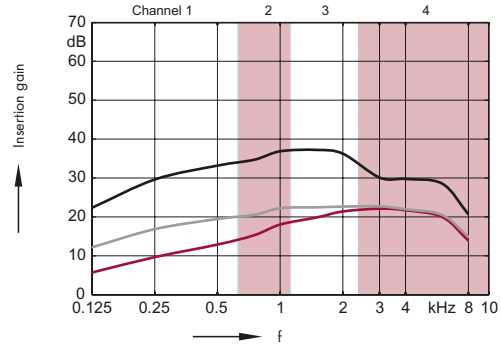

Output sound pressure level
($L_I$ = 90 dB)

Full on gain
($L_I$ = 50 dB)




Basic acoustic response
($L_I$ = 60 dB)

## Sound profiles and channels




Preconfigured sound profiles

# Arena P 1

## Features and Accessories

### Essential Facts
- 4 signal processing channels
- 3 preconfigured sound profiles

### Hardware
- 13 battery
- Rocker switch

### Speech
- Feedback Preventer (S)

Functionality Levels: S = Standard  B = Basic

# Notes

# Arena P 1

## 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 function 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:
  - Earhook

### Sound Profile System

The Sound Profile System is a new and innovative way of adjusting hearing instruments for the client's individual hearing loss whilst providing optimal speech comfort. All Sound Profiles are engineered and fine-tuned for optimal speech understanding, sound quality and feedback stability.

The Sound Profile System is based on the analysis of 18,000 hearing losses. Depending on the performance level of the product, it will offer 3, 4 or 6 preconfigured Sound Profiles for each hearing instrument model. Each preconfigured Sound Profile covers a range of typical hearing losses and differs in gain, compression and MPO settings.

Studies have shown that for hearing instruments in this segment, the Sound Profile System was preferred over conventional fittings.

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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**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.

Legal Manufacturer
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Subject to change without prior notice

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