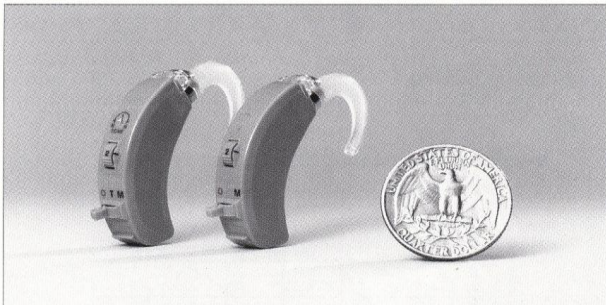


# Rion Hearing Instruments

## HB-23 Series Model HB-23P/HB-23PT

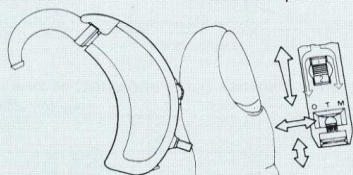


- ① SMT (Surface Mount Technology) adopted for much higher product reliability
- ② World most inexpensive hearing-instruments with unbelievable high quality
- ③ Water resistant technology applied to housing design against moisture
- ④ Small case design but bigger operating switch (original manufacturer of this idea)

### SPECIAL DESIGN

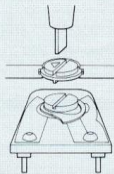
#### ● Switch and Control Easy to Operate

Rion has given careful consideration to people with poor manual dexterity in the design and placement of the volume control, switch and battery compartment. These controls as well as the user instructions are ease of operation.



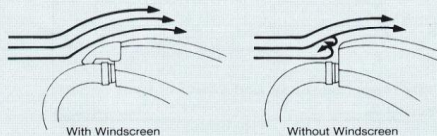
#### ● Sturdy and Perspiration/Water-resistant Trimmer System

The trimmer is rotated indirectly using the setting cap, so damage is kept to a minimum with an almost completely sealed structure, it has excellent perspiration and dust resistant properties.



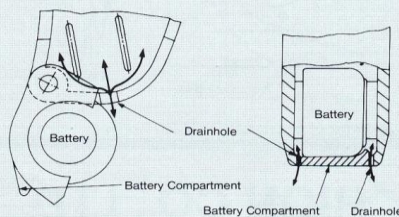
#### ● Windscreen Effect

HB-23M/T is equipped with a front microphone and windscreen. This windscreen reduces the wind noise by as much as 20 dB. Suitable S/N can be maintained even in a windy environment.



#### ● Drain Hole

A drain hole is located on the lower part of the case to naturally drain moisture and perspiration that may get inside the hearing aid.



TO CREATE A NEW WORLD

 RION CO., LTD.

# Specifications

## ● ANSI Standard (S3. 22 1987)

Maximum SSPL90: 125 dB  
 HF average SSPL90: 119 dB  
 HF average full-on gain: 46 dB  
 Reference test gain: 42 dB  
 Frequency range: 200 to 6000 Hz  
 Total harmonic distortion: 1600 Hz 2 %  
 800 Hz 8 %  
 Equivalent input noise: 27 dB  
 Induction coil sensitivity (10 mA/m): 84 dB (HB-23PT only)

## ● IEC Standard (Pub. 118-0 1983, Pub. 711)

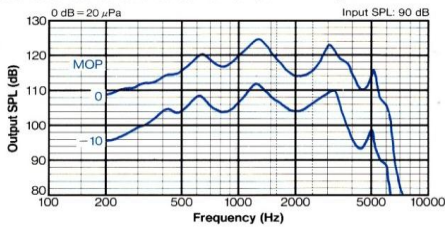
Reference test frequency: 1600 Hz  
 Full-on acoustic gain: 54 dB  
 OSPL90: 127 dB  
 121 dB at 500 Hz  
 131 dB at peak  
 Total harmonic distortion: 1600 Hz 8 %  
 800 Hz 22 %  
 Equivalent input noise level: 26 dB  
 Induction coil sensitivity (1 mA/m): 79 dB (HB-23PT only)

Battery current: 1.3 mA  
 Battery voltage: 1.3 V  
 Battery type: 13 A  
 Battery life: 177 h

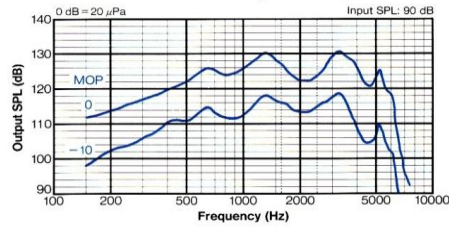
Dimensions: 3.6 × 1.3 × 0.88 cm  
 Weight: 4.2 g (excluding battery)  
 Output limiting control: MOP (-10 dB continuous, HB-23PT only)

Tone control: N, H 2 positions (HB-23PT only)  
 Operating switch: O-M (HB-23P)  
 O-T-M (HB-23PT)

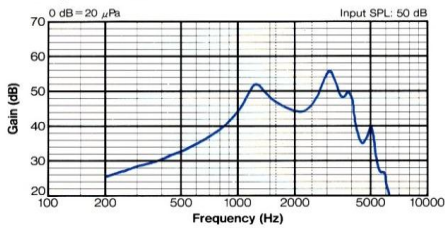
### ● SSPL90 curve and effect of output limiting control



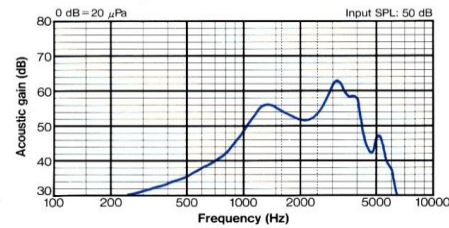
### ● OSPL90 curve and effect of output limiting control



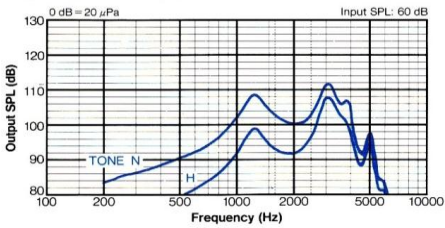
### ● Full-on gain curve



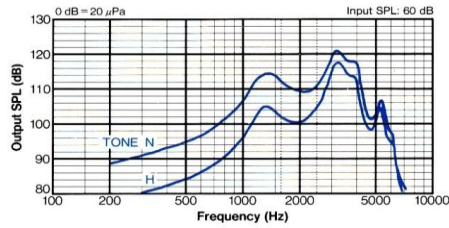
### ● Full-on acoustic gain curve



### ● Frequency response curve and effect of tone control



### ● Basic frequency response curve and effect of tone control



Specifications subject to change without notice.



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