



HDA 200 Audiometric Headphone

Closed dynamic headphones designed for extended high frequency testing.

Features

- ◆ Excellent passive attenuation (based on Peltor™ Ear Defenders)
- ◆ Very high quality sound reproduction
- ◆ Convenient single sided cable
- ◆ Padded headband and additional adjustable/removable cushions for increased comfort
- ◆ Soft, replaceable circumaural ear pads
- ◆ Color coded ear cups, right (red) left (blue)



HDA200 is PTB approved. Physikalisch-Technische Bundesanstalt, Braunschweig, Germany. PTB is equivalent to the National Bureau of Standards.

HDA 200 Frequency Response Test Conditions

- All measurements are done on a calibrated coupler B&K 4153 (artificial ear) with the standard cone YJ0304 above the adapter plate, type DB 0843.
- The pressure of the headband shall be $10\text{N} \pm 1\text{N}$.
- The RMS input voltage to the headphone is 0.5 V.
- The measurements are done with steady state sine wave signals.
- The output impedance of the signal source shall be $<1\ \text{Ohm}$.
- Climatic conditions:

Temperature	T=20° C
Humidity	H=50%rel
Atmospheric pressure	P=approx. 100kPa

Technical Data

Frequency response	< 20 to > 20,000 Hz
PTB calibrated	see table
Transducer principle	dynamic, closed
Nominal impedance	40 Ohm
Characteristic SPL	100 dB at 1 kHz, 1 mW
Max permanent load	500 mW
Coupling	circumaural
Caliper pressure	10 N
Weight (with cable)	330 g
Cable approx. 3 m,	single-sided, open-ended
Connection	yellow + L black - L red + R white - R

Standard frequencies (Hz)	SPL (dB 20 μPa @ .5 Vrms)	Passive attenuation (dB)	Maximum SPL (<10 min. @ 5 V RMS)
125	112.5	14.3	132 ± 3
250	113.0	15.9	132 ± 3
500	112.0	22.5	132 ± 3
750	111.0	-	131 ± 3
1,000	108.5	28.6	129 ± 3
2,000	104.0	32.0	124 ± 3
3,000	104.0	35.0	124 ± 3
4,000	104.0	45.7	124 ± 3
5,000	106.5	-	127 ± 3
6,000	107.5	-	125 ± 3
8,000	105.5	43.8	125 ± 5
9,000	105.0	-	123 ± 5
10,000	102.5	-	122 ± 5
11,200	102.0	-	123 ± 5
12,500	103.0	-	118 ± 5
14,000	98.5	-	119 ± 5
16,000	100.0	-	120 ± 5

All data are influenced by temperature, humidity and static pressure.