

EARPIECE TESTER FOR OTOPLASTICS, WITH USB INTERFACE



Application

To be sure that custom earpieces for hearing protection show optimal behaviour one can perform a fast leak test.

A proper test provides certainty about a perfect fit of the earpiece. When there is a perfect fit, noise can only enter the ear canal through the noise filter and not outside to the earpiece.

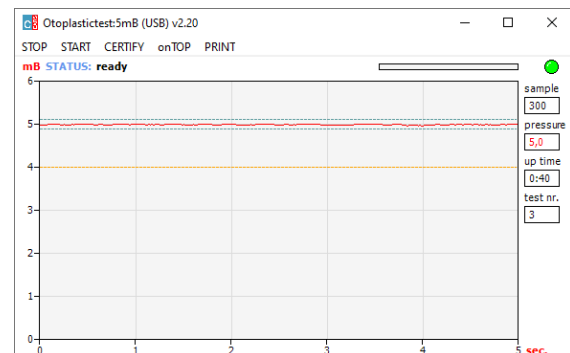
For that purpose the room in the ear canal, between eardrum and otoplastic, is brought to a small overpressure of 5mB (0,073psi), by means of air. When the pressure is reached, the air

system is closed and when the pressure stays stable for five seconds the otoplastic has the perfect fit. The related software controls the earpiece tester and allows the user to analyze the pressure course, real time, by means of a graph.

Software

The operating software is available for the following platforms:

Windows Vista, 7, 8.1 and 10 (for 32- and 64-bit), an W10 example is visible on the right (desktop, laptop). Also available as an *app*, from the Microsoft Store, for Desktop, Laptop and Surface Go (W10 UWP)), as well as for Android, smartphones and tablets (OTG), from version 4.1.x (Jelly Bean, API version 16); an example-screen is visible at the bottom right.



Specifications

Test pressure : 5mB (\equiv 51mmH₂O or 500Pa)
 Trip pressure : < 4mB
 Test time : 5 seconds
 Test duration : max. 10 seconds
 USB : version 2.0 + 3.0
 Power source : cable, USB micro-B
 Dimensions : 154 x 96 x 34 mm
 Weight : approx. 250 gr.
 Enclosure : black, PMMA (UL 94 HB)



Features

The tester does not require any special care and does not need any calibration or adjustment on a regular basis. The enclosure can be provided with your own logo (dimensions max. 100.5 x 66.5 mm). The measurement screen can be scaled up by means of your mouse (desktop). The resulting graph can be filed and appended to a personal test document. A Bluetooth[®] version is also available.