

## TESTER FOR OTOPLASTICS, WITH BLUETOOTH® LOW ENERGY INTERFACE



### Application

To be sure that a custom earpiece for hearing protection shows 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 (0,073 psi), 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 via Bluetooth® Low Energy (LE, v5.0+) and allows the user to analyze the pressure course, real time, by means of a graph.

### Software (Apps)

The software that controls the tester is available for:

**Windows** (UWP), desktop, laptop and Surface, as *app* from the Microsoft Store

**Android**, for smartphone and tablet from the Play Store, as of Android OS v6.0 (API 23, Marshmallow)

**Apple iOS**, iPhone and iPad *app* in the App Store, as of iPhone 6 and iPad Air with iOS 12.4+ and MacBook using Apple *silicon* (CPU ARM M1+)



### Specifications

Test pressure : 5mB ( $\pm$  51mmH<sub>2</sub>O or 500Pa)  
 Trip pressure : < 4mB  
 Test time : 5 seconds  
 Test duration : max. 10 seconds  
 Bluetooth® : version 4.0 (min.), LE, range:10m  
 Power source : 4 x AA battery Alkaline or NiMH  
 Dimensions : 154 x 96 x 34mm  
 Weight : approx. 250 gr. (excl. batteries)  
 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. 101 x 62 mm<sup>2</sup>). The measurement screen can be scaled up by means of your mouse (desktop). The resulting graph can be filed and, later on, appended to a personal test document. A USB version is also available.