

# Strumento per FIT TEST

## VERSIONE 6

SCHEDA TECNICA

### Leak test instrument

HSR Code: 90189084



### Details:

The most effective method of functional testing of hearing protection according to the applicable standard EN 352.

#### Features

- Colour: black
- Dimensions: 138 x 66 x 27 mm
- Incl. shutdown
- Simple operation with 2 pushbuttons
- Incl. 9 volt battery

#### Included supply:

- Filter-extraction pliers
- Adapters work
- Measuring tube (about 75 cm)
- Handy carrying case

With the supplied adapters almost any ear protection is testable.

## TECH SPECS

### POWER

Battery: 9V battery block (alkaline, lithium or NIMH)  
Size: PP3  
mAh (the higher, the longer battery life)



Power supply: 9V stabilized power supply  
min. 300mA DC Output Current

### AIRPRESSURE

Max. output: 20mBar  
Min. output: 0mBar

# FAQ Sheet

## Frequently Asked Questions

### **Can I connect the power supply when there is already a battery present?**

A: Yes, no harm is done. The measuring device will always drain current from the power supply when it is connected.

### **If I insert a rechargeable battery, will it be charged when I connect the power supply?**

A: No, the battery must be charged by an external charger.

### **Can I connect my own battery/power supply to the measuring device?**

A: Yes, as long as you take notice of the specifications in the TECH Sheet to prevent permanent damage.

### **The tube is damaged and/or has a bad fitting around the adapter. Must I buy a new one?**

A: When the damage is on one of the outer ends then you can just cut a piece off the tube.

### **For which hearing protectors are there adapters?**

A: Consult your supplier. They are happy to help search if the hearing protector can be measured and if there is an alternative adapter needed.

### **Must I perform "II.Check" before every measurement?**

A: No, it is advised to do every time you turn the measuring device ON, when connecting a new battery/power supply and when doubting the measurement results.

### **The LED BAR display disappears during a test?**

A: The measurement electronics automatically shuts down after  $\pm 2$  minutes. Press the TEST button again. Now you can measure once more for  $\pm 2$  minutes.

### **More than 1 LED burns in DOT mode?**

A: This occurs due to the high sensitivity of the sensor and is normal. The last lighting LED shows the attenuation at 1 KHz.

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Dispositivi su misura per proteggere l'udito da volumi eccessivi, rumori assordanti, acqua e vento!

bachmaier®

## LEAK TEST INSTRUMENT

Is used to check the seal of the hearing protection products

bachmaier® *work, helmet, fidelity, shooter* and FIDELITYEARPHONES.

### I) First operation

1. Insert a 9V block battery into the battery compartment **(7)** on the back of the device or connect the optional power supply **(8)**.
2. Check the connection for the measuring tube **(1)**. The measuring tube must be tightly mounted by pushing it onto the measuring connection.
3. Switch on the device with the ON/OFF button **(6)**.
4. Check that the green indicator light **(4)** is illuminated. If the light is not light up, check the power supply and 9V battery connection.
5. Select the BAR or power-saving DOT mode **(3)**.

### II) Control of the device function

1. First check the completely unclosed sound tube without a connection to hearing protection.

a) Press the start button **(5)** for 1 second.  
(motor runs  $\pm$  2 minutes)

**Open sound tube:**

**> 0 LEDs light up in the display (2)**

□□□□□□□□

b) Check the LED display for 3 seconds and analyze with the following table:

<b>≤ 1 LED</b>	OK, THEN. Continue with step 2.
<b>= 2 LEDs</b>	Wait 10 seconds for the 2nd LED to turn off or flicker. <b>YES:</b> OK. Continue with step 2. <b>NO:</b> Contact your supplier.
<b>≥ 2 LEDs</b>	Contact your supplier.

2. Now check the completely closed sound tube by holding it closed with a finger at the end and sealing it completely.

a) Press the start button **(5)** for 1 second.  
(motor runs  $\pm$  2 minutes)

**Sealed sound tube:**

**Bar mode: all 10 LEDs light up**

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**Dot mode: 10th / last dot right lights up**

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b) Check the LED display for 3 seconds and analyze with the following table:

<b>≥ 9 LEDs</b>	OK. Continue with step III.
<b>&lt; 9 LEDs</b>	Connect power supply or replace 9V battery and repeat test. ≥ 9 LEDs <b>YES:</b> OK. Continue with step III. <b>NO:</b> Contact your supplier.

### III) Carrying out a leak test

1. Remove the filter from the hearing protection earmould.
2. Connect the measuring tube to the corresponding measuring adapter **(9a/ 9b)**. Insert the measuring adapter precisely and sealingly into the filter holder of the earmould. Press the start button **(5)** for 1 second, completely seal the outer end of the hearing protection with a finger and check again whether the 9-10 bars / dots in the LED display light up.
3. Insert the hearing protector including the connected adapter into the ear. Check that it is correctly fitted in the ear by pressing lightly on the earmould. The measuring tube should be positioned so that no tensile stress is exerted on the hearing protection and the correct fit is not impaired.
4. The next step is the actual hearing protection function test. Press the start button for 1 second. If at least 7 LEDs or the 7th dot light up in the LED display, sufficient functioning of the hearing protection is guaranteed and the measurement is completed positively. If < 7 LEDs light up, the measuring procedure must be repeated and, if necessary, the earmould must be new manufactured.
5. After completion of the hearing protection check, reinsert the filter into the hearing protection earmould.

*Important: Check the function of the indicator light (4) during each hearing protection test! If it does not light up green, the measuring result is falsified.*

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*In this case, connect the power supply or replace the 9V battery and repeat the control of the device function (step II).*

## IV) Annual calibration

In order to comply with the valid regulations according to PSA regulation (EU) 2016/425 and standard EN 352-2:2002, the device must be sent to the manufacturer once a year for calibration. The user is responsible for compliance with the test intervals of the device. Confirmation/documentation is carried out with a inspection plate on the back of the device. The costs for calibration and transport shall be borne by the user.

## V) Warranty

The warranty period is 3 years from delivery. Components that are subject to wear and tear are excluded from the warranty. In case of improper use of the device and the use of other spare parts, all warranty and liability claims expire.

## VI) Dimensions of the device

L = 13,9 cm | W = 6,5 cm | H = 2,8 cm | Weight: 190 g

The device is powered by a 9 V DC battery. The device - especially the battery - will be damaged if exposed to temperatures above 60° C. *It should only be used by trained personnel.*

## VII) Operating elements

- 1 Connection of the measuring tube
- 2 LED display
- 3 Switch DOT/BAR mode
- 4 Indicator light
- 5 Start button CHECK
- 6 ON/OFF button
- 7 9V DC battery compartment (on the back of the device)
- 8 Power supply connection
- 9a Adapter for **bachmaier® work soft / rigid, helmet**
- 9b Adapter for **bachmaier® fidelity, shooter** and **FIDELITYEARPHONES**

