

testo

testo sound level calibrator
0554 0452

Instruction manual

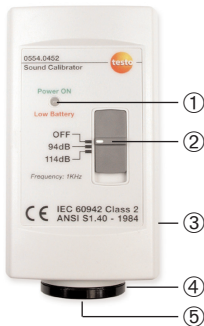
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1. General Information

Please read this documentation through carefully and familiarise yourself with the operation of the product before putting it to use. Keep this document to hand so that you can refer to it when necessary.

2. Product Description



- ① Function and battery status display LED
- ② On/Off and level switch
- ③ Battery compartment (rear)
- ④ ½ inch microphone adapter
- ⑤ 1 inch opening to insert microphone (once adapter is removed)

3. Safety Advice



Product safety/preserving warranty claims:

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- ▶ Operate only within the parameters specified. Do not use force.
- ▶ Do not expose to electromagnetic radiation (e.g. microwaves, induction heating), static charge, heat or strong fluctuations in temperature.
- ▶ Never store with solvents (e.g. acetone).
- ▶ Ensure that liquid does not enter into the calibrator.



- ▶ The product should only be opened if expressly described in the documentation for maintenance and repair purposes.



Ensure correct disposal:

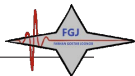
- ▶ Dispose of defective rechargeable batteries and spent batteries at the collection points provided.
- ▶ Send the product directly to us at the end of its life cycle. We will ensure that it is disposed of in an environmentally friendly manner.

4. Intended Purpose

The sound level calibrator has been designed to calibrate sound level meters.

5. Technical data

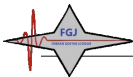
Feature	Values
Sound pressure level	94dB/114dB in reference conditions, switchable
Accuracy: Sound pressure level	±0.5dB
Frequency	1000Hz ±2%
Reference conditions	
- Temperature	+23°C (74°F)
- Relative humidity	50%
- Air pressure	1013hPa
Operating conditions	
- Temperature	0 to +40°C (32 to 140°F)
- Relative humidity	10 to 90%RH
- Air pressure	650 to 1080hPa (to 2000m amsl)
Dependency coefficients	
- Pressure dependency	0.005dB/hPa
- Temperature dependency	0.005dB/°C
- Humidity dependency	0.005dB/%RH
Distortion factor	<3%
Storage and transport conditions	
- Temperature	-10 to 50°C (14 to 122°F)
- Relative humidity	0 to 70%RH
Battery	9V block (6F22)
Battery life	Approx. 40 hours



Feature	Values
Battery test	Internal circuit for permanent battery status monitoring. Calibrator does not emit signal if the LED changes from green to red, voltage is then too low.
Dimensions in mm (lxbxh)	113 x 63 x 44
Weight	Approx. 170g (incl. battery)
EC guideline	89/336/EEC

6. Initial Operation

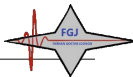
- 1 Open battery compartment.
- 2 Insert battery, observe +/-.
- 3 Close battery compartment.
 - The instrument is ready to operate.
 - The instrument shows its functionality by the "Power ON" LED and a beep sound after it is switched on.



7. Operation

- 1 Attach calibrator to microphone with a rotary motion. Use the corresponding adapter for instruments with a ½ inch microphone.
- 2 Switch on instrument and set the measurement range from 80 to 130 dB.
- 3 Set time weighting (Fast/Slow) and frequency weighting (dB(A),dB(C)) to the values in which the instrument is usually operated.
- 4 Set calibrator level switch to 94dB.

The instrument should show a value of 94dB minus the height offset value, see table.



Height offset values

Height in m amsl	Pressure p in mbar	Offset in dB
0-250	1013-984	0.0
>250-850	983-915	-0.1
>850-1450	914-853	-0.2
>1450-2000	852-795	-0.3

Example:

Height above mean sea level = 500

Target value = $94\text{dB} - 0.1\text{dB} = 93.9\text{ dB}$

If the value displayed deviates from the target value, the instrument should be recalibrated.

- ▶ Using a small screwdriver, turn the instrument calibration screw until the correct target value is displayed.
- 5 To check, set the calibrator level switch to 114dB.



The instrument should show a value of 114dB minus the height offset value.

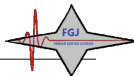
If the value displayed deviates by more than $\pm 0.2\text{dB}$ from the target value and it also cannot be reduced by recalibration, please contact your dealer or Testo Customer Service. You will find contact details at www.testo.com.

8. Care and Maintenance

Changing the battery

If the battery voltage needed to operate the calibrator is insufficient, the control lamp on the front lights up red.

- 1 Open battery compartment.
- 2 Insert battery (9V block - 6 F 22), observe +/-.
- 3 Close battery compartment.




9. Accessories

Name	Part no.
Calibrator (incl. battery, case and ½ inch adapter)	0554 0452
9V rechargeable battery	0515 0025
Recharger for external recharging of rechargeable batteries	0554 0025

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