GENERAL®

SOUND LEVEL CALIBRATOR

USER'S MANUAL

SCAL1356

Please read this manual carefully and thoroughly before using this product.

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KEY FEATURES

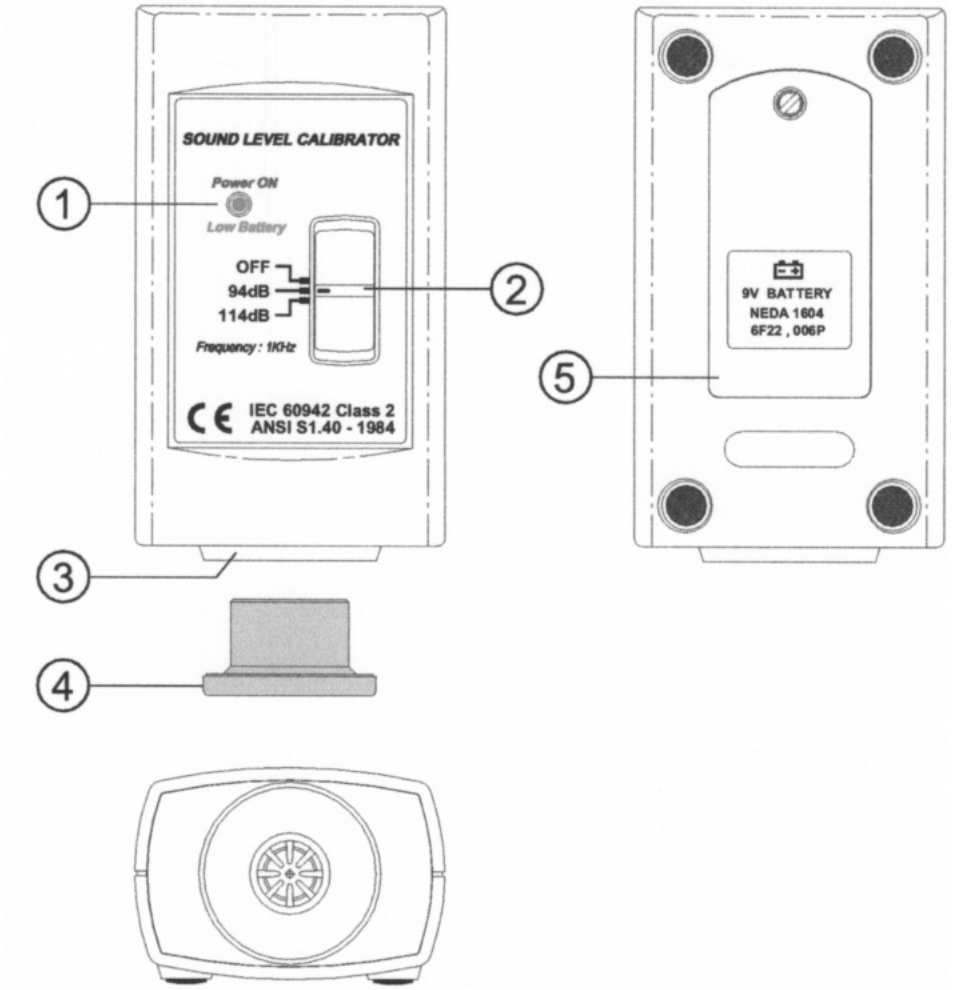
- Conforms to ANSI S1.4-1984 and IEC 60942:2003 Class 2
- Two output levels: 94dB and 114dB
- Fits 1 in. and 1/2 in. microphones
- Low battery indication
- CE and RoHS approved

WHAT'S IN THE PACKAGE

The SCAL1356 comes in a soft pouch inside a white box. Also inside the pouch are a 1/2 in. microphone adapter, a certificate of

traceable calibration, a “9V” battery and this user’s manual.

PRODUCT OVERVIEW



① Power ON/Low Battery LED

② Power OFF/Output level selector switch

③ Port sized for 1-in. microphone

④ 1/2-inch microphone adapter

⑤ Battery compartment

SETUP INSTRUCTIONS

INSTALL BATTERY

1. Turn the calibrator over and open the battery compartment by using a small flat-head screwdriver to remove the single screw securing the battery compartment cover. Take care not to lose the small screw.
2. Plug the included “9V” battery into the wired socket inside the compartment. The terminals of the battery and the socket mate in only one way, with the smaller male terminal plugging into the larger female terminal.
3. Close the battery compartment by replacing its cover and reinstalling and tightening the small screw.

OPERATING INSTRUCTIONS

1a. **To calibrate a sound level meter with a 1/2-in. diameter microphone**, insert the microphone into the 1/2-in. microphone adapter, which is supplied inserted into the bottom of the calibrator (see figure at right and Callout 4 of figure on page 3).

1b. **To calibrate a sound level meter with a 1-in. diameter microphone**, first remove the 1/2-in adapter and then insert the microphone into the 1-in. microphone port.

2. Select a range of the sound level meter to be calibrated that includes 94dB (0 to 100dB, for example). It makes no difference whether the meter is set for fast or slow time weighting, or for “A” or “C” frequency weighting.

3. Move the Power OFF/Output level selector switch on the SCAL1356 to the **94dB** position. If the installed battery is adequately charged, the front panel Power ON/Low Battery LED will glow green. If the installed battery is weak, the LED will glow red. If the installed battery is dead, the LED will not illuminate at all. Replace a weak or dead battery immediately by following the procedure in the Setup Instructions section.
4. Turn the meter's calibration (sensitivity) adjustment screw or potentiometer until the meter reads exactly 94dB.
5. Choose a range of the meter that includes 114 dB (0 to 120dB, for example).
6. Move the Power OFF/Output level selector switch on the SCAL1356 to the **114dB** position.
7. Turn the meter's calibration (sensitivity) adjustment screw or potentiometer until the meter reads exactly 114dB.

After calibrating the sound level meter, move the Power OFF/Output level selector switch on the SCAL1356 back to the **OFF** position, to avoid unnecessarily draining the battery.

SPECIFICATIONS

Output Sound Pressure Levels: 94dB and 114dB at reference conditions (74°F/23°C, 50%RH, 1013hpa atmospheric pressure)

Output sound pressure accuracy: ±0.5dB

Output Frequency: 1000Hz ±2%

Total Harmonic Distortion(THD): <3%

Operating Temperature: 32° to 140°F (0° to 40°C) @ 10 to 90%RH

Storage Temperature: 14° to 122°F (-10° to 50°C) @ 0 to 70%RH

Dimensions: 4.4 x 2.4 x 1.7 in. (113 x 63 x 43mm)

Weight: 6 oz. (170g), without battery

Power Source: (1) “9V” batttery (included)

WARRANTY INFORMATION

General Tools & Instruments' (General's) SCAL1356 Sound Level Calibrator is warranted to the original purchaser to be free from defects in material and workmanship for a period of one year. Subject to certain restrictions, General will repair or replace this instrument if, after examination, the company determines it to be defective in material or workmanship. The warranty period begins on the date of purchase. You are encouraged to register your product online. General will extend your warranty an additional 60 days if you register at www.generaltools.com/ProductRegistry.

This warranty does not apply to damages that General determines to be from an attempted repair by non-authorized personnel or misuse, alterations, normal wear and tear, or accidental damage. The defective unit must be returned to General Tools & Instruments or to a General-authorized service center, freight prepaid and insured.

Acceptance of the exclusive repair and replacement remedies described herein is a condition of the contract for purchase of this product. In no event shall General be liable for any incidental, special, consequential or punitive damages, or for any cost, attorneys' fees, expenses, or losses alleged to be a consequence of damage due to failure of, or defect in any product including, but not limited to, any claims for loss of profits. Register now at www.generaltools.com/ProductRegistry to receive a 60-day extension to your warranty.

RETURN FOR REPAIR POLICY

Every effort has been made to provide you with a reliable product of superior quality. However, in the event your instrument requires repair, please contact our Customer Service to obtain an RGA (Return Goods Authorization) number before forwarding the unit via prepaid freight to the attention of our Service Center at this address:

General Tools & Instruments
80 White Street • New York, NY 10013
212-431-6100

Remember to include a copy of your proof of purchase, your return address, and your phone number and/or e-mail address.

NOTES

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Specifications subject to change without notice

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