

### Introduction

Thank you for purchasing your REED R8090 Sound Level Calibrator. Please read the following instructions carefully before using your instrument. By following the steps outlined in this manual your meter will provide years of reliable service.

### Product Quality

This product has been manufactured in an ISO 9001 facility and has been calibrated during the manufacturing process to meet stated product specifications. If a certificate of calibration is required please contact the nearest authorized REED distributor or authorized Service Center. Please note an additional fee for this service will apply.

### Safety

Never attempt to repair or modify your instrument. Dismantling your product, other than for the purpose of replacing batteries, may cause damage that will not be covered under the manufacturer's warranty. Servicing should only be provided by an authorized service center.

### Features

- Generates stable acoustic signal at a controlled frequency and amplitude to verify sound level meter accuracy
- Accommodates sound meters with 1/2" diameter microphones
- Simply place calibrator on microphone, turn on and adjust your sound level meter
- Complies with IEC 942 Class 2

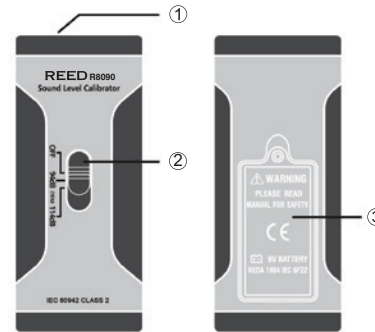
### Specifications

|                           |                                  |
|---------------------------|----------------------------------|
| Output Sound Pressure:    | 2 levels (94dB and 114dB)        |
| Accuracy:                 | ±0.5dB                           |
| Output Frequency:         | 1000Hz ±4%                       |
| Power Supply:             | 9V Battery                       |
| Product Certifications:   | CE                               |
| Operating Temperature:    | 32 to 104°F (0 to 40°C)          |
| Storage Temperature:      | -4 to 140°F (-20 to 60°C)        |
| Operating Humidity Range: | 0 to 80%                         |
| Dimensions:               | 4.7 x 2 x 1.7" (120 x 51 x 43mm) |
| Weight:                   | 4.6oz (130g)                     |

### Included

- Battery

### Instrument Description



1. Microphone Adapter
2. Range Switch
3. Battery Compartment/Cover

### Operating Instructions

1. Insert the microphone under testing into the calibrator's microphone cavity and ensure that it is fully inserted.
- Note:** Only sound level meters with 1/2" microphones can be calibrated with this device.
2. Slide the range switch to the 94dB position, or the 114dB position as desired.
  3. The calibrator generates a signal as soon as the switch is set.
  4. Read the sound level meter's value.
  5. The sound level meter should read 94dB or 114dB, depending on the calibrator's signal level.
  6. If the sound level calibrator does not match the calibrator's signal (within specification), adjust it as per the sound level meter's operating instructions.
  7. When the calibration is complete, slide the range switch to the "OFF" position and remove the microphone.

### Battery Replacement

Replace the battery when there is no sound pressure output from the sound level calibrator.

1. Remove the screw with a Philips screwdriver and open the battery cover.
2. Replace the 9V battery.
3. Secure the battery cover and tighten the screw.

### Applications

- Calibrate 1/2" sound level meters

### Product Care

To keep your instrument in good working order we recommend the following:

- Store your product in a clean, dry place.
- Change the battery as needed.
- If your instrument isn't being used for a period of one month or longer please remove the battery.
- Clean your product and accessories with biodegradable cleaner. Do not spray the cleaner directly on the instrument. Use on external parts only.

### Product Warranty

REED Instruments guarantees this instrument to be free of defects in material or workmanship for a period of one (1) year from date of shipment. During the warranty period, REED Instruments will repair or replace, at no charge, products or parts of a product that proves to be defective because of improper material or workmanship, under normal use and maintenance. REED Instruments total liability is limited to repair or replacement of the product. REED Instruments shall not be liable for damages to goods, property, or persons due to improper use or through attempts to utilize the instrument under conditions which exceed the designed capabilities. In order to begin the warranty service process, please contact us by phone at 1-877-849-2127 or by email at [info@reedinstruments.com](mailto:info@reedinstruments.com) to discuss the claim and determine the appropriate steps to process the warranty.

### Product Disposal and Recycling



Please follow local laws and regulations when disposing or recycling your instrument. Your product contains electronic components and must be disposed of separately from standard waste products.

### Product Support

If you have any questions on your product, please contact your authorized REED distributor or REED Instruments Customer Service by phone at 1-877-849-2127 or by email at [info@reedinstruments.com](mailto:info@reedinstruments.com).

Please visit [www.REEDINSTRUMENTS.com](http://www.REEDINSTRUMENTS.com) for the most up-to-date manuals, datasheets, product guides and software.

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