

# **AUTO TEST™**

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## Acoustic Calibrator



**AUTOTEST™ Acoustic Calibrator**  
User Manual Version 1.1

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## 1. Precautions:

Please read this operation manual carefully before using this equipment for correct operations. This equipment has been designed to meet the measurement requirement of Safety Engineers, Health, Industrial Safety offices and Sound Quality control in various environments.

## 2. Features:

The AutoTest acoustic calibrator provides an accurate, stable and simple to use sound source for carrying out a calibration check.

## 3. Specifications:

Applicable Standards.....	IEC 60942: 2003 Class 2
Method.....	Dynamic speaker
Applicable Microphone.....	½ inch microphone
Generated sound pressure level.....	114 ± 0.5dB (“C” or “lin”)
Total Harmonic Distortion (THD):.....	<2%
Generated Frequency.....	250Hz ± 1%
Output stabilizing time.....	5 seconds or less after a microphone is inserted
Operating temperature range.....	-10 to +50°C
Storage temperature range.....	-20 to +60°C (not including batteries)
Operating humidity range.....	25 to 90% RH (with no condensation)
Storage humidity range.....	10 to 90% RH (with no condensation)
Power source.....	9V battery PP3 x 1
Battery Life.....	Approx. 20 hrs or more continuous operation (when using PP3 type dry cell batteries at 25°C)
Outer Dimensions.....	60(H) x 10(D) mm
Weight.....	Approximately 200g

## 4. Calibration:

Return to AutoTest Products Pty. Ltd. for annual traceable calibration.

## **5. Battery check:**

The unit will provide a calibration tone for approximately 30 seconds with a single push of the button. If the tone turns off immediately or does not turn on at all, the battery needs replacement.

## **6. Operation:**

- 1) Check the battery condition of both the Sound Level Meter and the Acoustic Calibrator and replace if necessary.
- 2) Ensure the calibrator is attached to the microphone correctly by gently inserting the microphone into the cavity of the calibrator.
- 3) Refer to the sound level meter user manual for information on setting the instrument ready for calibration.
- 4) Ensure that the calibrator is switched on and the sound level meter is set to the appropriate level and all correction factors for atmospheric pressure and microphone type have been accounted for.
- 5) Allow both units to settle for approximately 5 seconds before adjusting the sound level meter.

## 7. Warranty

AUTOTEST Products Pty Ltd or any Authorised AUTOTEST Service Centre warrants this product against defects in material and workmanship for a period of 12 months from the original date of purchase. This warranty applies only to products and components supplied by AUTOTEST Products which can be identified by the trade name or logo affixed to them or by other documents. AUTOTEST Products does not warrant any products not supplied by AUTOTEST Products.

During the warranty period, AUTOTEST Products or any Authorised Service Centre will repair (or at its option replace) any defective component(s) without charge for parts or labour, provided the product is returned freight prepaid to an authorised AUTOTEST Service Centre. Transit insurance and return freight will be at the owner's expense.

In order to obtain calibration, warranty or non-warranty service, ship the product, freight and insurance prepaid to your nearest AUTOTEST Service Centre. Attach to the product your name, address, contact phone numbers, description of the problem and if a warranty claim, proof of purchase (dated sales receipt or invoice).

AUTOTEST Products or any Authorised AUTOTEST Service Centre reserves the right to refuse warranty repair if accident, abuse, misuse or misapplication has damaged the product. In transit or as a result of service or modification by other than an Authorised Service Centre, nor are any other warranties expressed or implied, including any regarding merchantability or fitness for any other particular purpose.

AUTOTEST Products or any Authorised Service Centre is not responsible for incidental or consequential damages resulting from the breach of any express or implied warranty, including damage to property and, to the extent permitted by law, damages for personal injury.



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