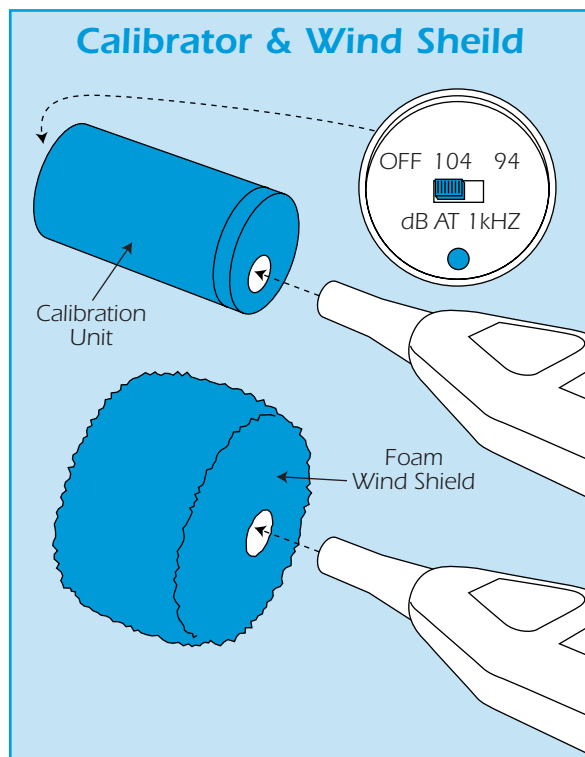


Calibrator & Wind Shield



power to the unit is disconnected and any data stored in Leq is lost.

When making Leq readings **DO NOT** move this or the range switch as data stored in the Leq will be lost.

BASIC TECHNIQUES

Decide on which settings you require and adjust as necessary, normal settings would be weighting in the dB (A) setting and display in the SPL position.

Response & Range should be set to reflect the information you require.

Ensure that the MAX HOLD button is in the OFF position.

Where readings are being taken near or around large objects, take several measurements in different positions.

In wind speeds of 5metre per second and greater, fit the foam wind shield to the microphone.

For accurate readings ensure the microphone is kept still, pointed at the source of noise and held at arms length away from the operator.

DISPLAY INDICATORS...

If one or more of the following icons show on the

YOU SEE	WHAT IT MEANS	HOW TO REMEDY
+	Amplifier Overload	Move up 1 range
-	Amplifier at noise floor	Move down 1 range
LO BATT	Battery level low	Replace batteries
:	The Leq store has halted because it is full	Note Leq and reset

LCD, follow the information in this section the correct the problem.

EQUIPMENT CARE

Avoid damaging the equipment, protect it from rocks and impact damage.

When not in use, store the equipment in its carry case somewhere clean, dry and safe from the thieves.

FINISHING OFF

Switch the unit OFF and place all components together in the carry case provided, ready for return to your local HSS Hire Shop.



...any comments?

If you have any suggestions to enable us to improve the information within this guide please fax your comments or write to the Product Manager at the address below

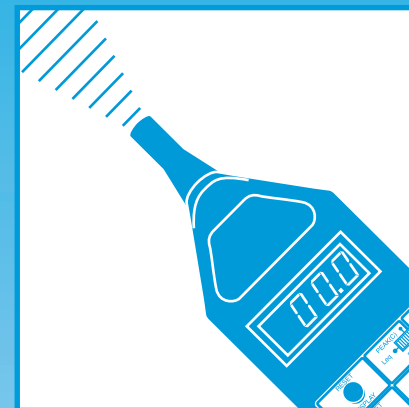
Fax: 0181-687 5001

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Group Office: 25 Willow Lane, Mitcham, Surrey CR4 4TS
Web Site: <http://www.hss.co.uk>

Operating & Safety Guide 870

870/01

HSS Hire Shops



Noise Meter

A hand-held device to indicate sound levels.



Code 49711

GENERAL SAFETY

For advice on the safety and suitability of this equipment contact your local HSS Hire Shop.

This equipment should be used by an able bodied, competent adult who has read and understood these instructions. Anyone with either a temporary or permanent disability, should seek expert advice before using it.

Keep children, animals and bystanders away from the test area.



Never use this equipment if you are ill, feeling tired, or under the influence of alcohol or drugs.

Always switch OFF and unplug the equipment when not in use. Never leave it switched ON and unattended.

DO not use this equipment if it is raining or snowing, water on the microphone will give inaccurate readings and may permanently damage the unit.

Always use the calibration unit before each reading is taken.

Do not operate in temperatures greater than 40° C.

Always check the condition of the equipment before use. IF it shows signs of damage or excessive wear, return it to your local HSS Hire Shop.

GETTING STARTED

The following information is designed to allow the user to set the Noise Meter up correctly and to guide him/her through its settings. It is presumed that the user is either trained, experienced or qualified in the use of this type of equipment.

Check that all the parts listed below are in the carry case provided, if any are missing contact your local HSS Hire Shop for advice.

- 1 x Meter
- 1 x Foam Wind Shield
- 1 x Calibration Unit
- 2 x Small Flat Screwdrivers

The Noise Meter is powered by 2 PP3 batteries located behind a sliding cover at the base of the unit. If the batteries need changing replace with either Alkaline or Zinc Chloride, do not use any other type (this includes rechargeable).

CONTROLS...

There are 3 push buttons on the left of the unit (see illustration), the top button resets the LED display, the middle resets all settings (as a refresh) and the bottom button freezes the LED with the maximum level reading attained.

To the right are 4 slide switches, their functions are as follows.

DISPLAY...

A 3-position switch, Leq which stores each noise level recorded and reports the average reading. Peak (C) for C weighted peak Pressure and SPL for basic sound level.

The switch can be used in any position without affecting the data stored by the Leq. You can also set it in SPL then Peak (C) and see the information on the LED.

Response...

A 3 position switch which allows you to set the response speed: F = Fast, I = Impulse and S = Slow.

When set to 'I' the rise time constant is 35milliseconds and descent time is 1.5 seconds and should only be used for single impulses, but when in Impulse Max position (Impulse Time Weighting and Max Hold Button pressed) there is no decay time.

RANGE...

This is used to select the operating range IE:

<75 For readings from 0 to a maximum of 75dB.

50 – 100 For readings from 50dB up to a maximum of 100dB.

>80 For reading from 80dB up to a maximum of 140dB.

WEIGHTING SPL & LeQ...

This 3 way switch is used to select either dB (A) (normal sound levels with 'A' weighted filter in circuit), or dB (C) (normal sound levels with 'C' weighted filter in circuit) with the third position to turn the unit OFF. When in the OFF position all

Calibration

The unit should be re calibrated before each set of readings is taken.

Switch the calibrator ON and confirm that the green lamp is illuminated and that you can hear an audible signal.

Place the calibrator over the microphone and select a suitable measurement range.

NOTE the calibrator produces a level @ 94dB.

Select the SPL function on the display switch and ensure the Maximum Hold function is switched OFF.

If necessary adjust the unit using the small screwdriver provided. Adjustment is made by turning the CAL screw (see illustration).

If the unit cannot be adjusted successfully, contact your local HSS Hire Shop for advice.

Noise Meter

