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Solutions to improve the quality of life



CR:250

Sound Level Meters

- **Type 1 CR:251B & Type 2 CR:252B**
- **'A' & 'C' Frequency Weighting**
- **Fast, Slow & Impulse Time Weightings**
- **Sound Level, L_{max} & Display Hold**
- **AC & DC Signal Outputs**

Introduction

The CR:250 Series of Sound Level Meters is a range of robust, easy to use instruments that have been designed to meet the needs of the user who demand performance in a simple package.

The range consists of the Type 2 CR:252B and the Type 1 CR:251B instruments, both of which meet the specifications of IEC 60651:1979. Designed for field use, these Sound Level Meters have robust metal cases, with clear, simple controls and an easy to read display.

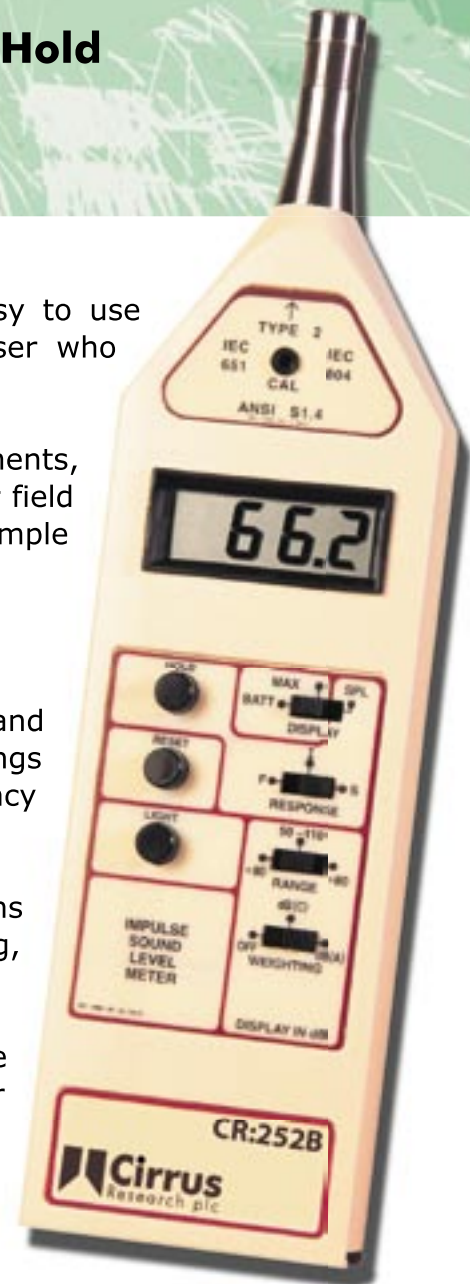
Features & Applications

The instruments provide the measurement of Sound Level (SPL) and Maximum Sound Level (L_{max}). Fast, Slow or Impulse Time Weightings can be applied to these functions, as well as dB(A) or dB(C) Frequency Weightings.

The CR:250 Series can be used in many industrial hygiene applications as well as for general noise measurements such as vehicle noise testing, fire alarm installation and product development.

In addition to these measurement functions, the units also allow the battery level to be shown and the display to be illuminated, useful for measurements in low light conditions.

The AC and DC outputs allows these instruments to be used as a front end for additional measurement systems. The outputs also allow the instruments to be used in simple remote measurement systems.



CR:250

Ordering Information

The CR:25B & CR:251B Sound Level Meters are supplied with an operating manual, a certificate of calibration, batteries and a calibration screwdriver.

The instruments can be ordered as complete measurement kits which includes all of the accessories needed to carry out a noise measurement.

The measurement kits are the CK:252B and CK:251B for the CR:252B and CR:251B respectively. The measurement kits contain the Sound Level Meter (CR:252B or CR:251B), a CR:511E Acoustic Calibrator, a UA:237 Windshield and a CK:250 Carrying Case along with the standard accessories included with the Sound Level Meter.

The measurement kits also includes certificates of calibration and operating manuals along with batteries for both the Sound Level Meter and the Acoustic Calibrator.

If the measurement kit is not required, a carrying pouch, the CP:65, is also available which protects the instrument from damage during transit.

Specification

Applicable Standards CR:252B - IEC 60651:1979 Type 2
CR:251B - IEC 60651:1979 Type 1

Microphone Class+ ½" Prepolarised Free Field Electret Condenser

Time Weightings 'F' (Fast), 'S' (Slow) & 'I' (Impulse) to IEC 60651:1979

Frequency Weightings dB(A) & dB(C)

Measurement Range
CR:252B 32dB(A) to 140dB(A)
43dB(C) to 140dB(C)
CR:251B 25dB(A) to 140dB(A)
43dB(C) to 140dB(C)

Measurement Functions Sound Level, Maximum Sound Level (L_{AFmax}), Display Hold

Display type 3½ digit reflective LCD

Display flags Overload, Maximum Hold

Batteries 2 x 9V battery (6F22)

Battery Life 40 Hours

Environmental
Operating -10°C to +50°C
Storage -20°C to +60°C

Dimensions
Length CR:252B 255mm, CR:251B 325mm
Width 75mm
Depth 36mm

Weight
CR:252B 440gms
CR:251B 480gms

Outputs AC - 2.2v for FSD
Log DC - 25mV/dB

Measurement Kits
CK:252B Type 2 or CK:251B Type 1 containing
Sound Level Meter
CR:511E Acoustic Calibrator
UA:237 Windshield
CK:250 Carrying Case



dedicated to noise measurement

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CR:252B & CR:251B Sound Level Meters