



The need for simple, accurate noise measurements for both industrial and environmental use, produces a requirement for a robust, accurate measurement tool. The measurement of general noise levels may be needed to identify locations where further investigation is required, as well as the periodic monitoring of problematic areas.

Instruments that can be used quickly and easily whilst providing information accurately and precisely can be supplied to users to allow regular periodic or continuous recording of information.

Simple prescription of hearing defenders may also be required and a measurement tool that can provide the facilities for this application can be utilised in many different ways.

measurement systems and data recording applications. The outputs also allow the instruments to be used in simple remote measurement applications.

The CR:250 series are designed and constructed in conformity with the exacting requirements of the international standards. Housed in a slim line metal case, they are convenient to use and durable in use. Full traceability is provided and the design ensures long term calibration stability to minimise the requirement for periodic verification.

The CR:250 series of instruments is available in two versions. The CR:251B conforms to the Type 1 "Precision" grade whilst the CR:252B conforms to the Type 2 "General Purpose" requirements.

The main difference is the microphone and preamplifier assembly. The CR:251B is supplied with a removable preamplifier as standard, allowing the instrument to be used with extension cables.

Both of these instruments can be supplied as complete measurement kits with the reference numbers CK:251B and CK:252B. The measurement kits comprise the following items: CR:251B or CR:252B Sound Level Meter, CR:511E Acoustic Calibrator, UA:237 Windshield, CK:250 Carrying case and any miscellaneous accessories.

The CR:251B and CR:252B Digital Sound Level Meters for noise measurement in demanding applications

- * A & C Frequency Weighting
- * Fast, Slow and Impulse Time Weighting
- * Maximum Hold
- * Robust and compact design suited for field operation

The CR:250 series feature both A and C weighting and can be used in most industrial hygiene situations as well as general factory safety. Measuring both frequency weightings allows prescription of hearing defenders using the HML method.

The AC and DC outputs allow the CR:250 series to be used as a front end for additional

CR:250

Specifications

Standards	IEC 60651 and ANSI S1.4 - CR:251B: Type 1 "Precision" grade CR:252B: Type 2 "General Purpose" grade	
Functions	Momentary Sound Level Maximum Sound Level Display Hold Battery Level Display Backlight	SPL L _{max}
Ranges	CR:251B 25 to 140dB(A) and 43 to 140dB(C) for SPL & L _{max} CR:252B 32 to 140dB(A) and 43 to 140dB(C) for SPL & L _{max}	
Weightings	Time 'F' (Fast), 'S' (Slow), 'I' (Impulse) Frequency 'A' and 'C'	
Display	3½ Digit LCD with overload, under range, over range, low battery, display hold	
Outputs	AC 2.2 volts for FSD and log DC at 25mV/dB with continuous range from 25 to 140dB	
Environmental	Temperature from -10° to +50°C and Humidity from 10 to 95% RH Non-condensing	
Power	2 x 6LR61 9V batteries to provide over 40 hours continuous operation	
Physical	CR:251B 325mm x 75mm x 26mm Weight 480g CR:252B 255mm x 75mm x 26mm Weight 440g	
Preamplifier	CR:251B Removable MV:200B CR:252B Fixed as standard	



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