

## NoiseMeters Limited

### CR262A Sound Level Meter and Noise at Work



The Noise at Work regulations make certain demands on the type of noise monitoring equipment that you should use. In summary, you need:

- Integrating Sound Level Meter with:
  - A weighted  $L_{eq}$
  - C weighted Peak<sup>(1)</sup>
  - Type 2 or Class 2 grade
- A Sound Level Calibrator suitable for the above meter
- Calibration certificates for the meter and calibrator

**The CR262A provides you with all these necessary features.** If your needs are more demanding then the instrument can be easily upgraded to cope.

Notes:

- (1) Necessary in environments with loud banging noises.

## Introduction

The CR262A is a very simple to use Integrating-Averaging Sound Level Meter that complies with the very latest standards. It was designed from the outset for Noise at Work measurements.

The CR262A provides the following measurements:

- ☒ Sound Level dB(A)
- ☒ Equivalent Continuous Sound Level ( $L_{Aeq}$ )
- ☒ Peak Sound Pressure ( $L_{Cpeak}$ )
- ☒ Maximum Sound Level ( $L_{AFmax}$ )
- ☒ Minimum Sound Level ( $L_{AFmin}$ )

The Noise at Work regulations and the HSE's guidelines state that an Integrating Sound Level Meter should be used. An Integrating Sound Level Meter provides you with the necessary  $L_{Aeq}$  measurement.

Where loud banging noise is present the instrument should also measure the  $L_{Cpeak}$ .

The CR262A provides both these essential functions.

## Using the CR262A

The clear and simple keypad and large display mean the instrument can be used quickly and with no training. There should never be need to refer to the user manual.

Making a typical measurement:

- ☒ Fit the Calibrator and press **Cal** (see note below)
- ☒ Press **Start** to begin the measurement
- ☒ When the level has settled, press **Stop**
- ☒ The display shows the measurement results

**Calibrator:** The regulations demand that a Calibrator is used before and after a measurement. This is a small device that emits an accurate tone. It is fitted over the microphone and the instrument automatically uses this tone to check its operation.

During measurement the instrument displays the current sound level,  $L_{Aeq}$ , Peak and Max.



The results are stored and recalled next time you switch on. This is convenient for taking the results back to your office before writing it down.

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## Purchasing Information

As most applications need an Acoustic Calibrator as well as the Sound Level Meter, we offer some standard packages that include the necessary accessories.

### Sound Level Meter Alone

If you already have a suitable calibrator or if your application does not need a calibrator then the order code for the meter alone is **CR262A**.

### Sound Level Meter with Calibrator

We can supply the meter with a suitable calibrator so that you can be sure of having everything you need. They are supplied in a storage box with protective foam. The order code for the meter and calibrator is **SC262A**.

### Complete Measurement Kit

If you are carrying the instrument to different locations or making measurements in a breezy environment then the best option is the Complete Measurement Kit. This includes the meter, a calibrator, windshield and carrying case. The order code for this kit is **CK262A**.



## Upgrade

The CR260A series instruments also are available with the following:

- ☒ Type 1 specification
- ☒ Octave Band Filters

The CR262A can be upgraded (without return to the factory) to have data storage and ability to download to a computer.

For more details please refer to the CR260A Series Datasheet.

## Specifications

<b>Standards</b>	IEC 61672-1:2002 Class 2 Group X IEC 60651 and IEC 60804 Type 2 A or C weighted. Peak is C weighted
<b>Freq. Weighting Range</b>	26 to 140 dB(A), Peak to 143 dB(C)
<b>Noise Floor</b>	23 dB(A)
<b>Measurements</b>	LAF - A weighted Fast Sound Level $L_{Aeq}$ - Equiv. Continuous Level, A weighted $L_{AFmax}$ - Maximum Fast A weighted Level $L_{Cpeak}$ - C weighted Peak Pressure Level
<b>Storage Display</b>	Last measurement, recalled to display Graphic LCD with Quasi-Analogue Bar Overload, Under-range and Battery Level Weightings and elapsed time Instrument settings
<b>Dimensions</b>	340 x 75 x 25 mm, 450 g
<b>Batteries</b>	2 x 1.5V AA > 24 hours continuous operation