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Your online supplier for Sound Level Meters

Introduction

The CR260A series is a range of very simple to use Integrating Sound Level Meters that comply with the very latest standards. The instruments are designed to be used without the need for complicated setup and provide the essential functions reeded from a modern Sound Level Meter.

All versions of the CR260A series provide the following measurements:

- x Sound Level dB(A)
- **¤** Equivalent Continuous Sound Level (L_{Aeq})
- Peak Sound Pressure (L_{CPeak})
- m Maximum Sound Level (L_{AFmax})
- Minimum Sound Level (L_{AFmin})
- ¤ Class 1 or Class 2 Performance

In addition, the CR263A and CR264A versions have Octave Band Filters. If required, all of the instruments can be upgraded to the **+Version**, which installs extra features in the Sound Level Meters and allows up to 100 measurements to be stored and downloaded to a computer.

Using the Instrument

The very clear, simple interface and large display allows the instruments to be used quickly and with very little or no training.

Press the Cal key to calibrate the instrument and select an appropriate measurement range using the arrow keys. The Start and Stop keys control the measurement and the Graph key allows the user to switch between the numerical and graphical display.



During measurement the instrument displays all the current parameters, with a quasi-analog bar graph representing the current Sound Level.

At the end of the measurement all of the parameters are displayed on the screen at the same t i m e. The last measurement is stored and is displayed when the instrument is next switched on.



The **+Versions** of the instruments will store up to 100 measurements in memory, which can be downloaded to a PC for analysis and reporting.

The Mode key allows the user to view the instrument settings. For the CR263A and CR264A, the Mode key is also used to switch between the Broadband and Octave Band Measurement modes.

Applications

- Assessment of noise in the workplace
- m Measurement of environmental noise levels
- Beneral purpose noise measurements and assessments
- x Selection of hearing protection

The CR260A Series are ideal instruments for the measurement and assessment of noise exposure in the workplace. The measurement of L_{Aeq} and L_{CPeak} allow for compliance with most regulations and guidelines. The addition of L_{AFmax} and L_{AFmin} levels provide more detail which may be useful for analysing the measurement. The **+Version** also provides 5 L_n values for environmental assessments.

All meters in the range have "C" weighting filters fitted, giving the ability to measure L_{Ceq} for HML hearing protector assessments.

The Octave Band Filters of the CR263A and CR264A Series can be used to determine the frequency content of the noise. In the **+***Version* this data can be downloaded to the Deaf Defier software to aid in the selection of hearing protector.



What are the Different Versions?

The CR260A Series consists of four different instruments that provide different functions. The instruments that are available are:

CR261A	Type 1 Integrating
CR262A	Type 2 Integrating
CR263A	Type 1 with Octave Band Filters
CR264A	Type 2 with Octave Band Filters

In addition to these four standard instruments, all of the CR260A series can be upgraded to the **+Version**.

Features of the +Version

All of the CR260A Sound Level Meters can be upgraded (order code UP260) to the +Version, which installs the additional functions. The main features of the +Version are:

- ¤ Up to 100 measurements stored in memory
- ¤ 1 Second Time History (level against time)
- ¤ Download measurements to a PC and use the Deaf Defier software
- ¤ User selectable Frequency Weighting (A, C or Z) and Time Weighting (Fast, Slow or Impulse)
- ¤ Measurement of L_n levels and Sound Exposure Level (LAF)

Upgrading to the +Version

To upgrade to the +Version, a unique upgrade key must be purchased. This will install the extra functions to the instrument.

This unique number is entered into the Deaf Defier software, which then installs the functions.

The upgrade can be carried out by the user without the need for the instrument to be returned.

> NoiseMeters Limited for further details of upgrading the CR260A Series to the +Version.

Software Support for the +Version

If the CR260A Sound Level Meter has been upgraded the +Version, to measurements that have been made and stored in memorv can b e downloaded to the Deaf Defier software.

This program allows the measurements to be presented as reports and the parameters all of viewed for analysis. In

addition, the configuration of the instrument can be changed as required.

Please visit the NoiseMeters web site for more information.

Measurement Kits

All versions of the CR260A Series can be supplied as a complete measurement kit. The kit includes the following parts:

- ¤ **CR260A Series Sound Level Meter**
- CR514 or CR515 Acoustic Calibrator Ħ
- UA237 Windshield Ħ
- d CK250 Carrying Case

If the Sound Level Meter has been upgraded to the +Version, the measurement kit will also include an RS232 Cable to connect to a PC and the Deaf Defier software and upgrade code.



Typical Measurement Kit

Ordering Information

Instrument Only

CR261A	Type 1 Integrating Sound Level Meter
CR262A	Type 2 Integrating Sound Level Meter
CR263A	Type 1 with Octave Band Filters
CR264A	Type 2 with Octave Band Filters

Instrument with Calibrator

SC261A	CR261A meter with Calibrator
SC262A	CR262A meter with Calibrator
SC263A	CR263A meter with Calibrator
SC264A	CR26A4 meter with Calibrator

Measurement Kits

CK261A	Kit with CR261A meter
CK262A	Kit with CR262A meter
CK263A	Kit with CR263A meter
CK264A	Kit with CR264A meter

Upgrade

UP260 Upgrade to +Version

Contact



Specifications

Applicable Sta Sound Level M Octave Band F	IEC 61672-1:2002 Class 1 or 2 Group X IEC 60651:1979 Type 1 I or Type 2 I IEC 60804:1985 Type 1 or Type 2 ANSI S1.4 with NK:70 adaptor	+Ve Aut	
Microphone	Type 1 Pre-polarized Free Field 1/2" condensor Type 2 Pre-polarized Free Field 1/2" condensor Random Incidence to ANSI S1.4 with NK:70		
Microphone Preamplifier	Type 1 MV:200D Removable Preamplifier Type 2 MV:200D Integral Preamplifier	Dis	
Time Weightings	'F' (Fast) + <i>Version</i> also provides: 'S' (Slow) and 'I' (Impulse)		
Frequency Weightings	Channel 1 - User selectable 'A' or 'C' Channel 2 'C' for Peak + <i>Version</i> also provides 'Z' for Channel 1		
Freq. Bands	31 Hz to 16 kHz octave bands (where fitted)		
Measurement Broadband	t Range (Typical) 24 dB(A) to 140 dB(A) Class 1 26 dB(A) to 140 dB(A) Class 2	Din	
Octave Bands	143 dB(C) Peak 15 dB to 140 dB (1 kHz octave band)	We	
Noise Floor (1 Broadband Octave Band	21 dB(A) Class 1, 23 dB(A) Class 2		
Available Mea Broadband	Isurements L _F Sound Level, Fast L _{eq} Equivalent Continuous Sound Level L _{Fmax} Maximum Sound Level, Fast L _{FMin} Minimum Sound Level, Fast	Env	
Octave Band	L _{CPeak} Peak Sound Pressure Measurement Duration Selected Frequency	Ext	
	Filtered L _{ZF} , dB(Z), Fast Filtered L _{zeq} Equivalent Sound Level L _{Aeq} , L _{Ceq} & L _{zeq} Equivalent Sound Level	Out	
Measurement Duration Sol			
+Version also allows the following measurements to be made: Broadband Lxv Sound Level			
broadband	$ \begin{array}{l} L_{Xeq} \mbox{ Equivalent Continuous Sound Level} \\ L_{Xmax} \mbox{ Maximum Sound Level} \\ L_{XYmin} \mbox{ Minimum Sound Level} \\ L_{CPeak} \mbox{ Peak Sound Level} \\ L_{xeq} \mbox{ LxFreq} \\ L_{Xn} \mbox{ (0.1 to 99.9) - five simultaneous values} \\ \mbox{ Date and Time of measurement} \\ L_{Xeq} \mbox{ Short Leq Time History (1 second)} \end{array} $	Ele	
Where	X = dB(A), dB(C) or dB(Z) Frequency Weighting Y = Fast, Slow or Impulse Time Weighting		

Filtered L_{Zeq}^{c} Equivalent Sound Level L_{Aeq} , L_{Ceq} & L_{Zeq} Equivalent Sound Level Measurement Duration Date & Time of measurement

Ν

Measurement	•	rement is stored		
+ <i>Version</i> also p	provides: 100 broadband or octave band measurements Calibration records are automatically stored Short Leg Time History- 24 hours at 1 second			
Automatic Mea	asurements (+1) The unit can be 1 minute 10 minutes 30 minutes 8 hours or a user defini	e preset to record over fixed times: 5 minutes 15 minutes 1 hour 12 hours		
Display	Graphical LCD with quasi-analog display Selected measurement parameter and level Warning for Overload and Under Range Battery level Time and Frequency weighting Elapsed time of measurement Short Leq (broadband mode) Graphical Octave Bands Last measurement recall Measurement Range Instrument Settings			
Dimensions	Type 1 - 340 x 75 x 25 mm Type 2 - 340 x 75 x 25 mm			
Weight	450 gms			
Batteries	2 x 1.5V Alkaline LR6/AA			
Battery Life	Broadband Typically > 24 hours Octave Band Mode Typically > 12 hours			
Environment	Temperature: Humidity:	Operating -10°C to +50°C Storage –20°C to +60°C Up to 95% RH Non Condensing		
External Conn	nections (+Version only) USB Type B for Data Connection RS232 via custom connector			
Output Cables (+Version only) Standard: ZL:100 USB Cable				
Software Supp	upport (+Version only) Deaf Defier for Windows (v3.2.0 or later) Requires: MS Windows 98SE or later			
Electromagnetic Performance IEC 61672-1:2002				

IEC 61672-1:2002 IEC 61672-2:2003 Except where modified by EN 61000-6-1:2007 & EN 61000-6-1:2007

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