Simplicity of use combined with maximum functionality, all in a pocket sized instrument, were key objectives for the development of the Castle GA256 Personal Sound Exposure Meter.

Castle Group are acknowledged experts in noise and vibration measurement with over 30 years experience. When you buy from Castle you buy with confidence.

Pocket Power

A feature packed, pocket instrument that is fully compliant with IEC 61252-1:2002. This meter gives simultaneous sound exposure (Lex) and maximum peak (Pmax) measurements, an essential feature for assessments to the Noise at Work Regulations 1989. It has a high specification measurement microphone and is cased in tough, crack resistant ABS plastic. Designed to be worn by an employee for a full- or part-shift, the GA256 has an 'unbreakable' pocket clip and a lockable keypad. The results are given in a simple, clear format to give an immediate indication of an employee's daily exposure.

Feature-Packed

Designed for Industrial Safety Officers and Safety Managers for compliance with the Health and Safety at Work Act; Noise at Work regulation 1989. The Castle GA256 provides all the necessary information you need for completing Noise at Work risk assessments.

- Integrated Sound Exposure Level (Lex) (was Lep'd)
- Projected Lex (8 hour sound exposure)
- DOSE% and Projected DOSE% (8 hours)
- 'A' and 'C' frequency weighting (toggle)
- 'Slow' and 'Fast' Time weighting (toggle)
- Lmax - maximum Lp hold (rms.)
- Pmax - maximum peak level
- Simultaneous measurement of Lex, Lmax and Pmax
- Pa/hr (Lex expressed in Pascals)
- Elapsed time (running time hrs, min, sec)
- Overload and Under-range indication
- Battery condition (Life approx. 24 hours)

A Tough Case for all Weathers...

The physical design and construction of the Castle GA256 casing is extremely tough and durable, made from a substantial thickness of ABS, crack resistant plastic, the GA256 will stand up to almost any industrial environment, a very important feature when this unit is out in the workplace.

Simplicity and Power...

Using the meter could not be simpler. The simple operating system uses logical keys to immediately display the information you need. The power of this little wonder means that it can measure simultaneous 'A' weighted levels as well as monitoring the Peak levels. This is a vital feature for many assessment tasks.

Future-Proof...

The built in software for this meter is designed to suit future upgrading for feature enhancements, legislative changes or instrument upgrades. Details are mailed to customers as soon as they become available. With the Castle Pocket meters, you will always be in step with the law and market requirements.
**GA256 Personal Sound Exposure Meter**

**APPLICABLE STANDARDS**
IEC 61252-1:2002 (Personal Sound Exposure Meters)

**MICROPHONE AND PREAMPLIFIER**
Type 2 Pre-Polarised ½” (13.2 mm) Electret Condenser Microphone:
-32 dB ± 3 dB re 1V/Pa
Custom pre-amplifier design

**DISPLAY**
Back-lit LCD panel (8x1 Characters)
Alpha-Graphic display for measured results

**LEVEL RANGE**
Measuring Range:
75-140
Linear operating range (IEC61672-1):
67dB
1 Measurement Range (IEC61672-1):
75-140 - Reference Range

**NOISE FLOOR**
Typical 'A' Weighting 25 dB(A) rms.
'C' Weighting 30 dB(C) rms.

**FREQUENCY WEIGHTING**
'A' and 'C' to IEC 61672-1:2002 and IEC 60651:2001,

**FREQUENCY RANGE**
12.5 Hz - 20 kHz (including microphone)
1 Hz - 20 kHz (electrical characteristics)

**TIME WEIGHTING**
Slow, Fast and Peak (no time constant)

**MEASUREMENT PARAMETERS**
Lex (Sound Exposure Level), Plex (Projected Lex over 8 hours), DOSE% (Lex compared to criterion level as %) PDOSE% (Projected DOSE% over 8 hours, Pa²h (Lex displayed in Pascal units) Lmax (maximum Level), Pmax (Max. Peak Level)
Other Displays: Elapsed time, Overload, Battery Life

**CRITERION LEVEL**
The level at which the 8 hour DOSE% = 100%
User selectable between: 80dB, 85dB and 90dB

**EXCHANGE RATE**
The rate at which the DOSE% doubles.
User selectable between: 3dB and 5dB