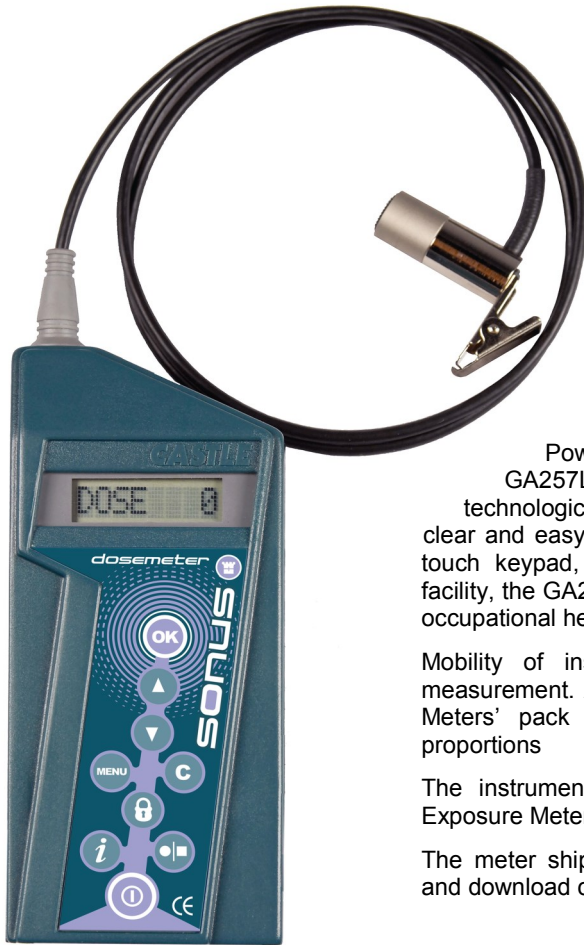


# Castle Sonus GA257L Dosimeter

## Personal Data Logging Noise Exposure Meter



The Castle Sonus range of pocket sized sound level meters bring simplicity and power to the world of Noise at Work and Environmental sound monitoring. From basic non-logging sound level meters to combined sound and dose meters with time and date stamped data logging capability.

There are a number of system packages available to suit many applications from simple tasks such as alarm monitoring, to a fully weatherproof system for long-term environmental solutions, there are also dedicated packages for Noise at Work requirements.

Powerful, yet small and lightweight, the Castle GA257L noise dose meter combines the latest technological advances with a realistic price tag. With its clear and easy to read 8 character alpha numeric display, soft-touch keypad, electronic security lock and instant calibration facility, the GA257L is sure to prove invaluable in a wide range of occupational health applications.

Mobility of instrumentation is essential for effective noise measurement. As the name indicates, the Castle Sonus 'Pocket Meters' pack all the necessary features into pocket sized proportions

The instrument is a full data logging and integrating Noise Exposure Meter which has a fast USB port for connectivity.

The meter ships with free noise analysis software dBdataLITE and download cable.

## POCKET POWER

All measured values can be saved to the internal flash memory of the Sonus GA257L for subsequent output. The results can be viewed on the instruments own display or downloaded to the included dBdataLITE noise analysis PC software via a high speed USB connection.

Using the instruments could not be simpler. The simple user interface can easily be scrolled and selected to immediately display the information you need.

The keypad also has a dedicated lock key, once locked the meter cannot be tampered with until an unlock code is entered which is supplied with the meter.

The measured noise is computed and stored as a series of pre-chosen time intervals. The GA257L instrument will store up to approximately 2100 intervals in either one or multiple recordings.

Each instrument is supplied with a comprehensive printed user manual and a getting started sheet.

- Measures Lp, Leq, Lep'd, Noise Dose%, Noise Dose Per Hour, Pa2h
- Measures parameters simultaneously including LAeq and either LZeq or LCEq
- User selectable Exchange Rate, Threshold and Criterion Level
- Under range and Overload indicators
- Dual Measurement Channels
- A, C or Z frequency weighting selection
- A, C or Z Peak measurements
- 'Slow', 'Fast' and 'Impulse' time weighting selection
- Save results to internal flash memory
- Download data to a PC via a fast USB connection
- Noise Analysis Software included with the meter
- Small and light weight, fits into small shirt or jacket pocket and also supplied with a strong pocket clip.
- Lockable Key pad
- Single battery operation of typically 12 hours



# Sonus GA257L Specification

## Instrument Standards:

IEC 61252 : 1993  
BS EN61252 : 1997 + A1:2001

## Level Ranges:

Range	Display Range	Linear Range	Peak Range
70 - 140 dB	69 - 143 dB	70 - 140 dB	80 - 133 dB

## Measurement Channels:

Two

## Parameters:

Lp, Leq, Apeak, Cpeak, Zpeak, Noise Dose%, Noise Dose Per Hour, Measurement Run Time, Overload, Interval Duration

## Linear Operating range:

70 dB

## Frequency Weighting:

'A', 'C' and 'Z'  
Combinations of 'A', 'A'&'C' simultaneous or 'A'&'Z' simultaneous available for Lp and Leq

## Time Weighting:

'Slow', 'Fast' and 'Impulse'

## Exchange rate:

3dB, 4dB or 5dB

## Criterion Level:

75dB, 80dB, 85dB or 90dB

## Threshold Level:

-5dB, -10dB or OFF

## Memory:

2100 Data Intervals Maximum in one or multiple recordings

## Microphone (Type Free Field):

ACO 7052 pre-polarized 1/2" condenser microphone, 25mV/Pa

## Microphone Preampfier:

Non Removable

## Noise Floor:

<51.0dBA , <53.0dBC , <53.0dBZ

## Display:

Alphanumeric LCD with Contrast Control, digit size 7mm x 5mm

## Batteries:

1 x PP3 (9V) - Typically 12 hours

## External Power:

12v - 18v via Multi Purpose I/O Socket

## Connections:

9 Pin Multi Purpose I/O Socket for: -  
USB (Cable Supplied), AC Output,  
External Power

## Environmental:

Temperature Operating Range: -10 to + 50°C  
Humidity: Up to 90% RH Non Condensing

## Electromagnetic Compatibility:

IEC 61672-1 : 2002

## Case:

High Impact ABS plastic with membrane keypad

## ORDERING INFORMATION

<b>GA257L</b>	-	Sonus Noise Exposure Meter
<b>GA607</b>	-	Dual Level Calibrator Class 1
<b>KA010</b>	-	Attaché Kit Case
<b>PC007</b>	-	dBdataPro software
<b>MK276DP1B</b>	-	Dosimeter microphone
<b>ZL2093-03</b>	-	Weatherproof cable
<b>MW402</b>	-	Weatherproof microphone housing



KA010 Attaché Kit Case with  
GA257L, GA116L & GA607



# Keeping you measuring...



Measuring the impact of your business on the world is an ever more important task. Whether this is the effect of business activities on employees, machinery or the environment, you need to know precisely where you are as the consequences of not knowing can lead to huge inefficiencies and avoidable costs.

Castle have spent over 40 years making sure we understand what you need to measure, how to measure it and what to do about the results—just ask the experts!

[www.castlegroup.co.uk](http://www.castlegroup.co.uk)

If you go to our main website, you will find a huge resource of information and knowledge to help you understand the issues you face.

- Safety and health of employees
- Impact on the environment
- Machinery condition and maintenance

You will also find access to a range of useful resources to help you tackle these issues  
[www.castlegroup.co.uk](http://www.castlegroup.co.uk)

[www.castleshop.co.uk](http://www.castleshop.co.uk)



Measuring requires access to equipment and instrumentation and finding this instrumentation can be a challenge. That is why we have set up the Castleshop.co.uk. This online shop contains thousands of products in a huge number of fields of measurement.

We took the trouble to look for all this equipment so you don't have to.

Check out [www.castleshop.co.uk](http://www.castleshop.co.uk) for access to equipment like this. Having said that, we're always adding products, you it'll probably be there even if it isn't here!



- Noise and Vibration Measurement Equipment
- Audiometers, Otoscopes and Booths
- Air-Sampling Pumps, Calibrators and Consumables
- Gas-Detection and Personal Monitors
- Emissions and Air Quality
- Light, Temperature & Humidity
- Airflow and pressure
- EMF testing equipment
- Electrical testing including PAT
- Chemical testing for water quality
- Borescopes & Microscopes
- Weighing scales
- Thermal Imaging
- Coating thickness and hardness



Training is becoming an ever more important area of consideration to industry **professionals** and the Castle Training Academy is fulfilling the need for more and more companies every year. The Academy now offers **competence** training along with IOSH and CIEH **qualifications**.

All of our courses are available on-site. This means you don't need to spend time off-site and you can have just the course you want, tailored to your needs.

Find a huge range of courses at:

[www.castletrainingacademy.com](http://www.castletrainingacademy.com).



Castle Group Limited,  
Salter Road, Scarborough Business Park, Scarborough, North Yorkshire, YO11 3UZ, United Kingdom.  
Telephone:+44 (0)1723 584250 Facsimile:+44(0)1723 583728 email: [sales@castlegroup.co.uk](mailto:sales@castlegroup.co.uk)  
[www.castlegroup.co.uk](http://www.castlegroup.co.uk)





There are a number of **reasons** why rental may be the solution for you. You may only have a one-off use, a special contract, a limited budget or a need for supplementary products. In any case, our **flexible booking** system, next day a.m. delivery and open-pricing mean that you can address any of these issues without delay. For long-term contracts, such as construction projects, Castle Rent is also a **tax efficient** way to 'own' equipment. Finally, for peace of mind, what better way is there to try a product before deciding to buy it? We even give you money back if you do purchase!

#### The Advantages of Castle Rent;

- Easier on cash-flow
- Rent for long- or short-term as you need it
- Let the Tax Man pay for you!
- Try before you buy
- Four weeks for the price of three
- No on-going maintenance costs
- Rent-to-Buy!

[www.castle-rent.com](http://www.castle-rent.com)

Measurement instrumentation must be **regularly** calibrated to a traceable standard and this is certainly true for most health, Safety and Environmental monitoring equipment. At Castle, our team of **highly trained and experienced** technical staff can service and calibrate almost any type of monitoring equipment from Noise and Vibration



meters to Thermometers to Scales. The Castle **'Premier Service'** includes menu pricing and a normal turnaround time within 5 days. What is more, we will evaluate any instrument and return it for **FREE** if you do not want to proceed.

#### Castle premier service and calibration offers...

- Free Evaluation Service
- Clear and Simple Pricing
- UKAS Accreditation Available
- Large range of equipment calibrated
- 4 Levels of calibration available for most equipment
- Annual contract calibrations with up to 20% off

[www.castlecalibration.com](http://www.castlecalibration.com)

## Calibration Partnership

For companies with **multiple** pieces of **equipment**, there is also Castle's 'Partnership Calibrations'; an annual scheme to take the hassle out of maintaining equipment certification. Castle will issue calibration **reminders**, collect your equipment if required and return it calibrated as soon as possible. This scheme also affords a **saving** of up to 20% on annual calibration charges.

[www.castle-care.com](http://www.castle-care.com)



## castleconsultancy

Castle **experts** are waiting to help you. Because we have a **network** of consultants across the country, we are poised to **react** to your requirement. Not only can we normally provide a local service, but we can usually help right away if you need us to!

Whether you are limited for time, in need of further **expertise** or just want some **advice**, we can assist. We have provided a wide range of services to many top companies for projects large and small.

#### Here are some of the services we can provide, but if it's not here, just ask!

- Noise or Vibration risk assessments
- Building Acoustics
- COSHH compliance
- Environmental Impact Assessments
- Air Quality Monitoring
- Occupational Health Screening programmes
- Water Sampling and Quality monitoring
- Hydrology surveying
- Soil Sampling and Testing
- Ecology surveys and monitoring programmes

[www.castle-consultancy.com](http://www.castle-consultancy.com)

## Who are Castle

For 40 years, Castle has been driving forward with product and service innovation. For a number of the early years, the company focussed on the development of sound and vibration measuring equipment. This was then progressed by adding training courses, rental and consultancy eventually leading to the Castle of today, which is helping many customers deal with a vast range of health, safety and environmental issues in a variety of ways. The future is a very exciting place at Castle and we are working on many new initiatives with our customers firmly in mind!

