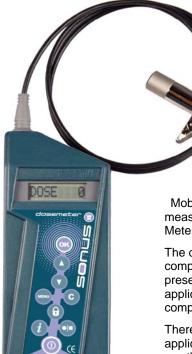
Castle 'SONUS' GA257L Personal Data-Logging Noise Exposure Meter (dose meter)



The Castle SONUS range of pocket sized sound level meters bring simplicity and power to the worlds of Noise at Work and Environmental sound monitoring. From a basic sound pressure meter to full data-logging, combined sound and dose meter, the range of systems covers a wide diversity of applications.

Powerful, yet small and lightweight, the Castle GA257L noise dose meter combines the latest technological advances with a realistic price tag. With it's 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 data-logging instruments have a USB connection and are compatible with the Castle dBdataPro software, where data can be presented in the desired format and copied and pasted into other applications, so you don't have to change the way you have always completed your reports.

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 monitoring, there are also dedicated packages for Noise at Work requirements.

POCKET POWER

All measured values can be saved to the internal flash memory of the GA257L for subsequent output. The results can be viewed on the instruments own display or downloaded to a PC using the included software.

A particularly important feature in a dose meter is security. The GA257L has the ability to lock the keypad with just two keystrokes. From this state, all of the functions will be inoperable. To unlock the instrument, a code is required which is supplied with the unit.

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

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

- Measures Lp, Lep'd, Dose%, Dose per Hour and Pa²H
- Measures simultaneously LAeq and either LZeq or LCeq
- User selectable Exchange rate, Threshold and Criterion level.
- C or Z weighted Peak
- Save results to internal flash memory
- Download data to a PC via a USB connection
- Analysis software included with the meter
- Small and light weight, fits into small shirt or jacket pocket
- Lockable Key pad
- Constructed of tough crack resistance plastic.
- Single battery operation of approximately 12 hours
- Supplied with a strong clip for attaching to a belt or shirt pocket



Salter Teleph

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SONUS GA257L SPECIFICATION

Range of Pocket sized Sound Level Meters and combined Personal Sound Exposure Meters Standards IEC61672-1-2002 (Sound Level Meters) IEC61252-1993 (Personal Sound Exposure Meters) Level ranges: DISPLAY RANGE LINEAR RANGE PEAK RANGE RANGE 70-140 69 – 141dB 70 – 140dB 80 - 143dB Linear Operating range: 70 dB **Detector Characteristics:** RMS and Peak **Frequency Weighting** 'A', 'C' & 'Z' Weighted in Accordance with IEC 61672-1-2002 Combinations of 'A', 'A'&'C' simultaneous or 'A'&'Z' simultaneous available for Lp, Leq and Lmax **Time Weighting** 'Slow', 'Fast' and 'Impulse' in Accordance with IEC 61672-1-2002 Exchange rate: 3dB, 4dB or 5dB Criterion Level: 75dB, 80dB, 85dB or 90dB **Threshold Level:** -5dB, -10dB or OFF Peak: 3dB above top of selected range Display: Custom alphanumeric LCD, digit size 7mm x 5mm Memory: 2100 Data Intervals Maximum Microphone/Preamp: ACO 7146A pre-polarised 1/2" condenser microphone, 25mV / Pa Calibration: 91.0 to 120.0dB @ 1KHz **Batteries:** 1 x PP3 (9V) Approximately 12 hours continuous use **Operating Temperature:** Operating Range: -10 to + 50°C Humidity: Effect: < 0.5dB from 25% to 90% RH Vibration: No effect on instrument EMC: Emissions: EC 61000-6-3, EN61326-1:2006, CISPR 22:1997 EN55022:1998, FCC Rules, Part 15 2003 Class B IEC 61000-6-2:2005, EN61326-1:2005 Immunity: Levels ±4kV (Contact), ±8kV (Air) Amp Mod: IEC 61000-6-2:2005, Level 10V/m Construction: ABS plastic **Display parameters include :-**Lp (Sound Pressure Level) Leq (Level equivalent) - dual measurement Lep'd Pa2Hrs (Dose % x 0.032) 'C' or 'Z' Weighted Peak L₁₀, L₉₀ and Ln (user selectable) Dose count 1% to 9999% with Variable exchange rate of 3dB,4dB or 5dB exchange rates 75dB, 80dB, 85dB or 90dB criterion value 'A', 'C' and 'Z' frequency weightings 'Slow', 'Fast' and 'Impulse' time weightings Elapsed time (Running time hrs, mins, secs) Period time (time left to end of current interval period) Exposure Time (for Lep'd and dose calculations) Overload indication (Flashing alternate display)

Battery condition indication Low battery (Flashing alternate display)

SONUS PRODUCT RANGE

| Sound Meters | Class 1 | Class 2 |
|----------------------------------|---------|---------|
| Basic– sound pres- sure level | GA116B | GA216B |
| Integrating—(Leq) | GA116I | GA216I |
| Data-logging | GA116L | GA216L |
| Dosemeters | | |
| Basic Dedicated Dosemeter | | GA257B |
| Data-logging Dose- meter | | GA257L |

ORDERING INFORMATION

| GA257L | - | Industrial Dosemeter |
|-----------|---|---------------------------------|
| GA607 | - | Dual Level Calibrator |
| KA010 | - | Attaché Kit Case |
| PC007 | - | dBdataPRO software |
| MK276DP1B | - | Dosemeter microphone |
| KA020 | - | Weatherproof System Case |
| ZL2093-03 | - | Weatherproof cable |
| MW402 | - | Weatherproof microphone housing |
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To the Safety, Health and Environment Professional...

The issues faced every day by Health, Safety and Environmental professionals are vast and varied. At Castle, we have spent a lot of time developing products and services to make your life easier!

Castle Group Ltd are one of the leading international group specialists in technical safety, health and environment solutions. Whether you are in Industry, Construction, Local Authority or anywhere there are safety or environment issues, we are a resource you really could use. We can help with Noise, Vibration, Air sampling, Gas detection, Light and temperature and just about anything else that needs measuring. The following services show you how we can help

FREE Health & Safety Training Seminars!

To get you off the ground, refresh your knowledge or just to get a taste, Castle is continually running FREE Safety, Health and Environmental seminars around the country. Covering subjects from Noise at Work, to COSHH and Audiometry, the list is ever growing, as are the locations. Check out our web site for the next seminar near you.

www.castlegroup.co.uk



Castle Instruments

Dealing with many Safety, Health and Environmental issues may well mean you need access to a plethora of **equipment** and **instrumentation** to carry out measurements and assessments necessary for the job.

At Castle we can provide you with just about any of the equipment you might need. All our equipment comes with the **guarantee** of back-up and support you only get from a company with 40 years under its belt! Here are a few of the core products we can offer, but we can also source anything you may need!

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 and Airflow

www.castlegroup.co.uk









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Castle Training Academy

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**. What is more, look out for our NEW City & Guilds provision. All courses come with professional **CPD** points and many are eligible for CITB and Train to Gain **grant funding**.



You can see a full list of courses and book-online on our website.

www.castletrainingacademy.com.

CastleRent

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 Sourcing service for any other equipment you need

www.castle-rent.com

Castle Care

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.castle-care.com

Castle Contracts

For companies with **multiple** pieces of **equipment**, there is also Castle's 'Contract 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

Castle Consultancy

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

www.castle-consultancy.com

Castle Online

You can access all our products and services online whenever you want, just go to www.castlegroup.co.uk and you will find a **knowledgebase** packed full of useful facts and information. You will also find details of all our upcoming **FREE seminars** and training courses as well as product information on literally hundreds of health, safety and environmental items, which are available to purchase directly through a secure server. Among other things you will find:

HS&E Measurement Products Books, Standards and Publications HS&E CD's DVD's Stopwatches and Timers Scales and Distance Measurement Water Testers

You will also find our shop on ebay of all places - http://stores.ebay.co.uk/Castle-Group-Safety or just go onto ebay and type Castle Group Safety in the shops section.

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!