

Castle Exilis Vibration Meter (GA2008)

General Purpose Pocket Vibration Meter



The Concept

Often, what you need to get a job done is a tool that will do that job! This is where the Exilis by Castle Group offers great power and flexibility for the measurement of the vibration from plant and machinery. This monitoring can be used to assess the condition of machine components by monitoring the vibration level from repeated measurements over time.

The ability to monitor the changing vibration over time allows pro-active maintenance to be planned, reducing the risk of component failure and un-planned production down-time.

Once you have realised the saving this can bring to your business, you might just end up buying a few of these little gems!

Simplicity at the Core

Being able to take measurements quickly and without fuss is really important when you might have a lot of measurements to take so the Castle Exilis is designed to help you with that—you just reset the measurement each time and then read directly from the screen.

Software Assistance

Although the Exilis does not directly connect to a PC—just to keep the process as simple as possible, you will be supplied with a software program to allow you to keep a track of your measurements and to plot the data for a visual representation of the change in level over time.

Once the data is input, the graph instantly shows any anomalous increased and these can be monitored

POCKET POWER

Pocket Power!

This pocket sized instrument allows you to take the type of measurement you want with virtually no setup. In other words, you switch it on and because the unit remembers how it was last used - away you go.

The supplied spike probe facilitates quick measurements without the need to fasten or attach the accelerometer; you simply press the probe onto the measurement point and take the reading

The Castle Range

Castle produce a range of other vibration meters for various applications, these include the Vexo, which is available for machine monitoring as well as a model for Hand Arm Vibration. You will also find the Excio and the Ultimius, which are both capable of a range of tasks including Hand Arm and whole Body Vibration, Building vibration and machinery condition. There are also analysers available for fault diagnosis and frequency analysis.

Exilis (GA2008) - Vibration Meter

- Single Axis vibration Measurements
- Large Dynamic Range
- Long battery life
- Simple menu operation
- Clear LCD Display
- Memory for storage of last 9 measurements
- Rugged Accelerometer and Cable for industry
- Tough case and connectors for demanding environments

Applications

- Machine condition monitoring

What's Supplied with the Exilis (GA2008)

- Exilis Instrument & Accelerometer with 1m Cable
- Spike probe
- Getting started laminated guide
- Trend Analysis software
- Carry Case for GA2008 and Accessories



Exilis (GA2008) Specification

Level Ranges:

Integration = Acceleration

Range	g
Low	0.01 - 10
High	0.1 - 100

Integration = Velocity

Range	mm/s
Low	0.1 - 100
High	1 - 1000

Integration = Displacement

Range	$\mu\text{m/s}$
Low	0.1 - 100
High	1 - 1000

Measurement Axis:

One

Parameters:

Acceleration, Velocity, Displacement:

- rms: Average / Max
- Peak: Average / Max

Frequency Weighting:

Ln - Linear Filter Response

Mc - Mechanical Filter Response

Overload:

Positive Overload warning

Noise Floor: (Acc, Vel, Disp)

<0.01g, <0.1 mm/s, <0.2 μm - Low Range

<0.01g, <1mm/s, <1 μm - High Range

Transducer:

Castle KD1011, 100mV/g $\pm 20\%$

Display:

1 x 8 Alphanumeric LCD

Memory:

Non-volatile E2PROM holding Calibration data plus storage of 9 spot results.

Batteries:

1 x 9V PP3

Typically 10 hours continuous use

Connections:

Input: 3 Pole Jack Socket 3.5mm

Environmental:

Temperature Operating Range: -10 to + 50°C

Humidity: Up to 90% RH Non Condensing

Electromagnetic Compatibility:

Designed in accordance with the following

Electromagnetic Compatibility Directives: -

- SI 2005/281
- 2004/108/EC

Case:

High Impact ABS plastic with tactile membrane keypad

ORDERING INFORMATION

GA2008* - Exilis Vibration Meter

Accessories

PC012* - Trend Analysis Worksheet

GA606 - Vibration Calibrator

KA022* - Carry Case

KD1011* - Single Axis Accelerometer 100mV/g

KD1202 - Mounting Studs (Pack of 5)

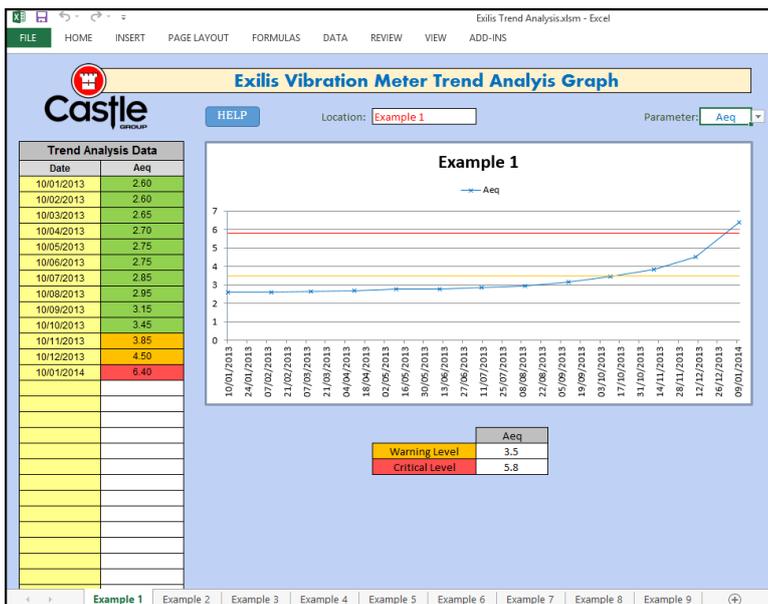
KD1206* - Removable Spike Probe

KD1215 - Glue Studs & Glue (Pack of 5)

01ZL1097-01* - Accelerometer Cable 1m

* supplied with the GA2008

Image shows the Trend Analysis Worksheet Screen.



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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
- PAT Testing Equipment
- Visual Inspection

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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 and 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!