

# GA2002 AND GA2003 VIBRATION METERS

*True to the principles of Castle design and development strategy, we are proud to introduce the GA2002 general purpose, pocket vibration meter and the GA2003 pocket HARM® (Hand Arm Risk Measurement) Vibration Indicator. Both of these instruments offer simple, reliable and accurate results for many types of vibration measurement plus instant Data-logging*

## GA2002 - General Purpose Pocket Vibration Meter

Reliable, repeatable and simple are three important criteria most people have when looking at taking vibration measurements. The GA2002 offers this on a plate and at a price unbeatable for what you get. This Instrument will give you all the fundamental vibration measurements in many of their variations using single key strokes. This makes it perfect for general machine and bearing vibration monitoring as well as other general-purpose vibration measurements.

## GA2003 - Pocket HARM® (Hand Arm Risk Measurement) Vibration Indicator

Damage to the Hand and Arm through exposure to vibrating hand held power tools is rapidly becoming a major area of health and safety risk assessment. Up to now, the process of gathering data to support such a program has been both difficult and costly. The GA2003 will provide the data you need to calculate daily exposure as recommended in the HSE guide HS(G)88, for an individual employee. This is exactly what has been missing from the equation where Hand Arm Vibration is concerned



## Applications

### GA2002

The uses for this instrument are far-reaching and widespread. One prime example would be a maintenance operator verifying results from a fixed monitoring system or taking measurements for maintenance prediction. Another example is a construction engineer checking that the vibration from a piling operation is not exceeding any environmental thresholds.

### GA2002 & GA2003 Features

👉 Small and Light weight 👉 Simple to Use 👉 Highly Robust 👉 Tactile Keypad 👉 8 Character LCD Display 👉 Simple Data-logging of 9 Data-points 👉 Comes complete with Accelerometer, Cable, Spike Probe (GA2002 only) and Case 👉 Multiple Filters – Mechanical and Linear (GA2002 only) 👉 Multiple Integration Modes – Acceleration, Velocity and Displacement (GA2002 only) 👉 Multiple Measurements – rms, Max.rms. and Peak.

### GA2003 Additional Features

👉 Comes complete with Accelerometer, Cable and HARM BLOK® 👉 Multiple Filters (Mechanical and HARM®) 👉 Multiple Parameters (Acceleration, Velocity and HARM®) 👉 Multiple Measurements (Lav, rms, Max.rms. and Peak & Elapsed Time).

### GA2003

Whilst the applications for this little gem include all of the above. There is the added benefit of being able to carry out HARM® (Hand Arm Risk Measurements) which will quickly enable you to highlight any employees that are likely to be at risk from vibrations transmitted into the hand/arm from hand held power tools.



INVESTOR IN PEOPLE



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# Specifications

## GA2002 & GA2003

Accelerometer:	Piezo-electric (10pc/g)	
Ranges:	<u>A</u> cceleration:	0.1 to 1000 ms <sup>-2</sup> (0.01 to 100 g)
	<u>V</u> elocity:	0.1 to 1000 mms <sup>-1</sup>
	<u>D</u> isplacement:	1 to 1000µm (Above in RMS or Peak and in 2 ranges)
Frequency:	Mechanical filter :	10Hz - 1KHz
	Linear filter :	10Hz - 10KHz
Memory:	non-volatile E <sup>2</sup> PROM memory which holds calibration data plus storage of 9 spot results.	
Keypad:	9 key tactile keypad	
Standards:	BS6842 Compliance with EMC CE marking	
Display:	8 Character LCD Display	
Parameters:	Acceleration, Velocity, Displacement	
Filters:	Mechanical & Linear	
Detectors:	RMS and Peak	
Displays:	rms, Lmax, Lpeak, Lav Overload indication (flashing display) Battery condition indication Low battery (Flashing alternate display) Hi/Lo range	
Calibration:	Simple calibration offset accessed from the keypad and stored in the non-volatile memory	
Weight:	250g with batteries	
Size:	135 x 62 x 30mm	
Batteries:	1 x IEC No 6LR61 (Upto 40 hrs life with Duracel MN1604)	

## GA2003 Additional Specification

Parameters:	HARM® (Hand Arm Risk Measurement) replaces Displacement for use in the measurement of Hand Arm Vibration
Displays:	Lav (Linear average value) Elapsed Time
Filters:	HARM® (Hand Arm Risk Measurement) filter as specified in HSE HS(G)88 publication, replaces the Linear filter

# What do You Get?

## GA2002

When you purchase a GA2002 it comes as a complete working system. There are also a number of accessories available to cover an even wider range of applications and make your GA2002 even more versatile as an every day tool.

### Items Included

GA2002	General Purpose Pocket Vibration Meter
KD1001	Basic Accelerometer
ZL1094-M12	Accelerometer cable
KD1204	Magnetic Mount
KD1206	Small Spike Probe
KA013	Kit Case

### Accessories

KD1202	Pack of 5 Mounting Studs
KD1207	General Purpose Mounting Block



## GA2003 HARM® DOSEMETER

The GA2003 comes with slightly different accessories to suit the nature of the work that would normally be carried out. The accessories available widen the applications to cover those of the GA2002 and make this a truly Multi Function Instrument.

### Items Included

GA2003	HARM®/Gen. Purpose Pocket Vibration Meter.
KD1001	Basic Accelerometer
ZL1094-M12	Accelerometer cable
KD1207	General Purpose Mounting Block
KA013	Kit Case

### Accessories

KA010	Small Attache Kit Case
KD1206	Small Spike Probe
KD1202	Pack of 5 Mounting Studs
KD1204	Magnetic Mount
KD1212	Cable Tie Wraps