

Castle GA2002 Pocket Vibration Meter

Industrial Vibration Meter for Multi-purpose use



The Concept

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.

Couldn't be Simpler!

Setup couldn't be easier, with this being a dedicated instrument, there is very little set-up to speak of. Simply press enter and the meter records the measurement you are looking at on the screen. This means you can capture what you need there and then.

The versatility of this instrument comes from the inclusion of the ability to measure Acceleration, Velocity and Displacement—all in one, low-cost solution. This, combined with the simplicity of use makes for a powerful combination

Applications

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.

Due to the generic makeup of this product, the applications are not limited by specific criteria, so virtually any vibration monitoring task will be possible with the GA2002 from Castle

POCKET POWER

Rugged and Ready!

The tough ABS plastic case is truly built for the industrial environment, with a recessed screen for protection of the display and a raised lip around the keypad to keep it from harm. The rugged cable and connectors lead to an industrial grade sensor designed for use in tough environments.

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

The Castle Range

The Castle range of vibration meters covers a diverse range of applications and includes the following instruments

- EXCIEO Human Vibration and multi-purpose meter for Safety, Environmental and Industrial applications
- VEXO S data-logging meter for industrial use
- VEXO H Hand Arm Vibration Meter
- GA2003 Hand Arm Vibration Indicator

- 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
 - Case
- Multiple Filters
 - Mechanical
 - Linear
- Multiple Integration Modes
 - Acceleration
 - Velocity
 - Displacement
- Multiple Measurements
 - Rms
 - Maximum rms.
 - Peak.



GA2002 Vibration Meter Specification

Instrument Standards:

GA2002

BS ISO 2954:2012—Mechanical vibration of rotating and reciprocating machinery — Requirements for instruments for measuring vibration severity
Compliance with EMC
CE marking

Accelerometer: Piezo-electric (10pc/g)

Ranges: Acceleration: 0.1 to 1000 ms⁻²
(0.01 to 100 g)
Velocity: 0.1 to 1000 mms⁻¹
Displacement: 1 to 1000µm
(Above in RMS or Peak and in 2 ranges)

Frequency: Mechanical filter : 10Hz - 1KHz
Linear filter : 10Hz - 10KHz

Memory: non-volatile E2PROM memory which holds calibration data plus storage of 9 spot results.

Keypad: 9 key tactile keypad

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)

Case: High Impact ABS plastic with membrane keypad

ORDERING INFORMATION

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
GA606	Optional Vibration Calibrator

Images shows the GA2002 Vibration Meter with cable, accelerometer, magnet and spike probe

