ACCELERATION & IMPACT RECORDER

(X,Y,Z)
An ultra-compact data recorder that records acceleration in three directions.

G-MEN DR100

Easier to use, with more functionality, at an affordable price.

(Actual size)

G-MEN DR100

Transportation Shock Vibrations

Ideal for monitoring shock vibrations from drops or impact during transport.

Created with micro-machine technology, the G-MEN unit has achieved both miniaturization and cost reduction thanks to its inbuilt ultra-compact 3-axis acceleration sensor. G-MEN DR100 is capable of registering static acceleration levels up to 100G on 3-axis and recording shock vibrations with a sampling interval as low as 10msec. The body contains an inbuilt temperature and humidity sensor to allow the recording of the 3-axis acceleration/temperature, as well as temperature and humidity fluctuations over time. The body also contains an LCD panel which allows the user to check information such as recorded data and configuration settings. Using the "G-Trace.net" software included as standard, recorded data can be easily transferred via the unit's USB interface to a PC. This allows instantaneous graphing or printing of data. The recorded data can be saved in CSV format for data analysis using spreadsheet software, tailored to your measurement needs. Traditionally, it was difficult to assess causes of damage in transit. However, now it is possible to instantaneously measure and record date/times and acceleration values when there is damage caused by vibration or dropping. It is ideal for quality assurance monitoring of package transport because it can record the time along with acceleration levels caused by dropping or impact during transport. These are factors that have been difficult to determine until now.
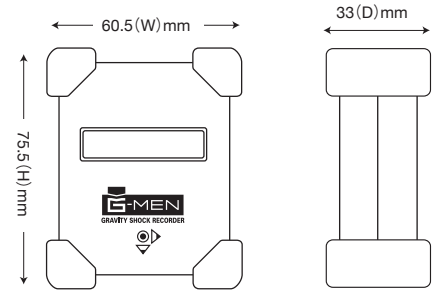
GRAVITY SHOCK RECORDER

G-MEN DR100

Main Features

■ The body has a built in 3-axis (X, Y, Z) acceleration sensor for real time (1msec) recording.

■ The body has a built in temperature and humidity sensor for temperature and humidity recording.

■ Contains three alkaline AAA batteries for approximately 50 days (Minimum sampling frequency 10mec) worth of recording.

■ Recorded data can be exported via an internal USB interface.

■ The "G-Trace.net" software, included as standard, can be used for instantaneous graphing of recorded data.

■ The recorded data can be saved in CSV format for data analysis using spreadsheet software to meet your measurement needs.

Main Specifications

Model	G-MEN DR100
Measured items	3-axis acceleration, Temperature and humidity
Acceleration sensor	The static acceleration 100G (±10%) sensor does not measure static gravitational acceleration.
Frequency response	16Hz - 100Hz
Minimum sampling frequency	1・2・5・10・20msec (Selectable)
Measurement resolution	1G
Temperature range	0 - 50°C (±1.25°C)
Humidity range	30 - 90% (±3%)
Measurement interval	1, 5, 10, 15, 20, 30 seconds; 1, 2, 3, 4, 5, 10, 15, 20, 30 minutes (Selectable)
Recording capacity	65,500 data
Operation display	LCD display
Record retention	EEPROM
Communication scheme	USB (MiniB)
Power supply	AA alkaline batteries (LR6) × 2
Battery life	Approximately 50 days (Depending on the measurement environment and battery performance)
Operating temperature and humidity range	0 - 50°C, 70% RH or below (There should be no dew condensation)
External dimensions	75.5(H) × 60.5(W) × 33(D) mm
Weight	Approximately 135g (Including the batteries)
Accessories	USB cable, AA alkaline batteries (2), Warning label (1), Metal fitting for attachment (1 set), Dedicated software (CD-ROM)

External dimensions

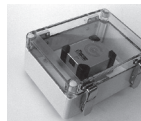← 60.5(W)mm →   33(D)mm

75.5(H)mm

Options

External power source unit
EPU-UT1
EPU-UT2
External dimensions: 111(H) × 81(W) × 50(D) mm
Using an external power based unit allows it to continue running for long periods of time.
EPU-UT1: Operation time with 2 size D alkaline batteries is about 10 months at a 10msec sampling interval. (approx.)
EPU-UT1: Operation time with 2 size C alkaline batteries is about 4 months at a 10msec sampling interval. (battery life will differ depending on the usage conditions.)

Warning labels (contains 60 sheets)
Attach them to shipping boxes to further call attention to the person in charge of the shipping.

Dust/water proof case
A case specially designed for the G-MEN, with a protection grade of "IP65".
Case external dimensions (excluding the legs) 145H × 175W × 75D

Software specifications G-Trace.net (Software included as standard)

Compatible models	G-MEN DR01, G-MEN DR20, G-MEN DR100			
Compatible operating systems	Microsoft Windows 7 Japanese/English versions			
Channels	X-axis, Y-axis, Z-axis, temperature, humidity			
Communication function	Configuration settings, data reading, start conditions, online measurement			
Data storage	GTR (Dedicated extension) format, CSV format			
Graphical display	Condition setting screen, graph, data list			
Graph settings	Graph types	Line graph, bar graph	Printed line thickness	Two types
	Graph title	Unspecified	Displayed time	Time, elapsed time
	Graph line color	Unspecified	Graph	Enlarge, reduce
	Display line thickness	Two types	Copy	Graph copy

Software included as standard

G-Trace.net

This software is used to easily perform G-MEN condition setting and data processing.

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Manufacturing, Sales Agency

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