





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

G-MEN DR20

For "observation" or "control", G-MEN works to monitor vibration and shock.



(Actual size)

G-MEN DR20

Transportation Vibration

Perfectly suited for quality verification in all areas of logistics

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. The G-MEN DR20 is capable of switching the 3-axis static acceleration value ranges between a 10G and a maximum of 20G, and is able to record with a maximum sampling period of 10ms. 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. This makes this unit perfectly suited for quality assurance checking for transported goods.



G-MEN DR20

Main Features

- The body has a built in 3-axis (X, Y, Z) acceleration sensor for real time (1msec) recording.
- The acceleration sensor range can be switched between 10G and a maximum of 20G.
- 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.

Model G-MEN DR20 Measured items 3-axis acceleration, Temperature and humidity Acceleration sensor Static acceleration: ±20G (±10%) Static acceleration: ±10G (±10%) Frequency response 0Hz - 100Hz 1 • 2 • 5 • 10 • 20msec (Selectable) Minimum sampling frequency Measurement resolution 0.1G Temperature range 0 - 50°C (±3°C) Humidity range 30 - 90%RH (±10%RH) 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) \times 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 $75.5(H) \times 60.5(W) \times 33(D) \text{ mm}$ Weight Approximately 135g (Including the batteries) Accessories USB cable, AA alkaline batteries (2), Warning label (1),

| 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 10, 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 | Сору | Graph copy |

Metal fitting for attachment (1 set), Dedicated software (CD-ROM)



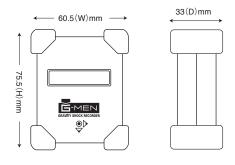
For your safety. Please make sure to thoroughly read the "User's Manual" and "Safety Precautions" before use, and be sure to always operate the device correctly. Note: Prices, specifications, and designs described in this catalog may be changed without prior notice.

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*Specifications of this product may be changed without prior notice.

External dimensions



External power source unit

EPU-UT1 EPU-UT2

EPU-UIZ 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 EPU-UT1 Operation time with 2 size C alkaline batteries is about 4 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 fur 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) 75H \times 97W \times

Software included as standard



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



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Manufacturing, Sales Agency

