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[SHOCK DATA LOGGER]

PAK-Ownship Shangou.com

The shock in logistics can always be observed.

given to packages, containers, and vehicles etc. during transportation. IMPAK-02 offers important information for the logistics management.



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It makes Technological Sense



SHOCK DATA LOGGER IMPAK-02

- The highly accurate, electrostatic capacitive element is adopted for shock recording of X/Y/Z axes.
- With timer function, recording starts and ends automatically
- Dustproof, waterproof, robust, aluminum case
- With built-in rechargeable battery
- **OUSB** connection with Windows PC
- ■Easy analysis and storage of data with included software 「ViewPak-02」
- It is possible to connect directly to the printer.
- With alarm output

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IMPAK-02 is a compact data logger that records shocks given to packages, containers, and vehicles. The shock value in terms of (G) from X-Y-Z axes and the time are recorded. The data of harmful shock given during loading, transporting, and handling will help you for warranty of transportation and packing plan. It is possible to analyze and store the data with Windoows PC, and therefore important information is offered to management of total logistics.

Product explanation

Outline

Using acceleration sensor (electrostatic capacitive type), IMPAK-02 observes shocks given during transportation. Setting a threashold for shock value (G) and selecting a recording interval (Seven sampling periods are available, from 1 second to 60 minutes) beforehand, IMPAK-02 observes the given shock continuously and records the maximum shock, which exceeds the threashold with the date and time by a built-in nonvolatile memory. The recorded data for shock is the maximum G value for each axis (X, Y, Z) in the selected recording interval. IMPAK-02 has a rechargeable battery built-in and works for 30 days continuously with full charge. After transportation, connecting to PC through USB cable, the recorded data is listed up and graphed instantly. It is also possible to output to the CSV or Excel file, and to analyze data freely.

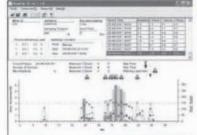
Method for utilization

1) The setting is transmitted to IMPAK-02

②Attached to the packages during transportation.

3The shocks are inspected and analyzed with PC.





Applications

For the quality control of transportation

Investigation of the possibilities and causes of damage on the packages or accidental collapse of piled cargos during transportation.

For feedback of the wrap/packing design

Making drop or shock test for wrapped and packed goods together, it can be learned how the wrap/packing can stand against shocks.

For the protection of mechanical equipment such as presses

In case that a large shock, which can damage the machine, is given, you can use alarm output from IMPAK-02 for automatically stop and protect the machine.

For warranty record of transportation.

You can obtain detailed reports about shocks given to precision equipment during transportation and use the reports for insurance claims.

Attached software

ViewPak-02

- Transmitting the setting data to operate IMPAK-02 and receiving the impact data from IMPAK-02
- Displays recorded data
- The transition of the shock value and the number of shocks are graphed.
- Time axis is adjustable. Visible/Invisible in the graph of each affiliate is switched, and its color can be arranged.
- Print of shock report (with graph) is possible.
- It is possible to export data to the CSV or Excel file, and to use it with other software.

Main screen



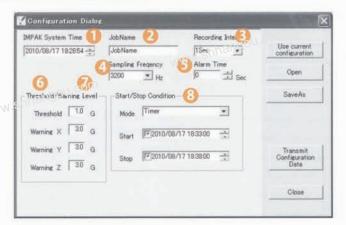
Menu

Toolbar

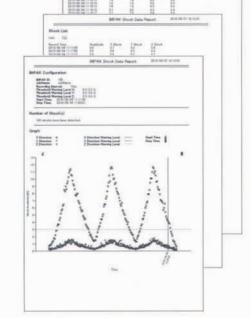
Reception setting field

- · Job name
- ·Recording interval
- ·Threshold level / Warning level
- ·Beginning/end condition
- Data table
 - ·Record time and date
 - ·Shock value
 - ·Each shock value of X/Y/Z axis
- Data graph
 - ·Shock graph (polygonal graph)
 - ·Shock number graph (bar graph)
 - ·Warning mark
 - ·Record beginning/end date

Transmission setting dialog



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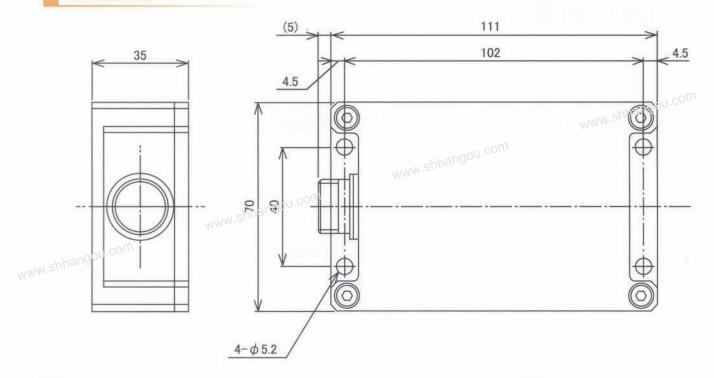
- System time
- · · · Time of built-in clock
- Job name
- Name that identifies record
- Recording interval
- Interval time when shock data is preserved in IMPAK-02
- Sampling frequency
- Duration of alarm output

Frequency of data collection

- Alarming time Threshold level
- Threshold of shock recorded in IMPAK-02
- **Alarming level**
- Threshold of shock that displays warning mark
- Beginning/end condition ... Beginning/end condition that is timer or manual.

*The maximum shock value that exceeded the threshold level is preserved in every recording interval.

Dimensions



Specifications

Record item	X/Y/Z axes impact value and generation date
Measurement range	16G (cross axis sensitivity ±1%)
Threshold level	0.5G~14.9G (common value for 3 axes)
Alarming level	Up to 14.9G > Threshold (each axis individually)
Axis	3 axes (X, Y, Z)
Data storage capacity	1 million data (one data includes X,Y,Z and date)
Recording interval	1sec/5sec/10sec/1min/10min/30min/1hour
Resolution	0.1G
Accuracy	#0.2G angov.com
Sampling frequency	3200/1600/800/400/200Hz
Memory	Flash memory (1GB)
PC interface	USB
Battery	Ni-MH AAA size (2pcs)
Battery life	400 times rechargeable
Typical measurment life time(*)	30 days (with full charge)
Operating Temp	-5°C~45°C (no condensation)
Protection grade	IP63 (Cap mount for Standard type)
	IP67 (Water proof cap mount for Option type)
Accessory	Included software ViewPak-02
	USB cable and vinyl connector cap
Weight	approximately 420g

(*)External Battery possible for long days measurements

Model

IPK-02

Optional Accessories

- Waterproof connector cap
- External battery case
- Printer connection cable

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