

FIELD DATA RECORDER

DER-1000

Field Data Logger

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DER-1000 is tri-axial data recorder for drop tests, measuring vibration, temperature / humidity in transportation continuously max.100 days by large capability 1GB memory. Recorded data is available for multiple analyses, such as drop height, PSD, histogram, transportation check-up and PSD composition. Users can select High Spec. version or Normal Spec. version.

Features

- Built in tri-axial acceleration sensor and temperature & humidity sensor.
- Long term measurement for a maximum of 100days.
*lithium battery x 4, 25°C (depending on measuring condition settings)
- Memory capacity 1GB.
- Dead time zero recording
- Two different versions (Normal spec. or High spec., should be selected when ordering).

Application

- Distribution environment survey of package freight, and quality control.
- Development of standards for package freight drop test and vibration test.
- Development of packaging specification.
- Finding problems in distribution environment.
- Distribution traceability survey.



Specification

Model	High Spec	Normal Spec
Memory size	1GB	16MB
Continuous record time *	Maximum 100 days	Maximum 70 days
Trigger mode	Acceleration / Time / W trigger	Acceleration
Frame length	512 / 1024 / 2048 / 4096	1024 / 2048
Sampling (ms)	0.25 / 0.35 / 0.5 / 1 / 2 / 5 / 10 / 20	0.5 / 1 / 2
Acceleration measurement	Tri-axial piezoelectric type (5 / 10 / 25 / 50G Acceleration range switchable)	
Temperature & humidity	Temperature : -20 ~ 60°C, Humidity : 0 ~ 100% rh	
Battery	9V battery x 4 (max.), parallel connection	
Interface	USB	
Size (mm)	W121 x D109 x H58	
Weight (g)	950	
Case material	Aluminum	
OS	Windows 7 / 10 (32 / 64bit)	
Operating environment (°C)	-20 ~ 60 (No condensing)	
Option	GPS matching	

*Lithium battery x 4, 25°C (depends on measuring condition setting)



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