



TRANSPORT  
RISK



STORAGE  
RISK



OPERATIONAL  
RISK



MONILOG®

## ShockDisplay curve

EXACT EVIDENCE OF THE  
TRANSPORT QUALITY



SHOCK



INCLINATION



VIBRATION



TEMPERATURE



HUMIDITY



PRESSURE



GPS  
TRACKING



LIGHT  
INCIDENCE

- + Extremely robust
- + Captures and saves the 100 largest mechanical shock events with signal progression
- + Measures direction, strength, time, duration, minimum and maximum of the effect
- + Inclination measurement on board
- + Easy operation, display, alarm function, long operating time, multi-level password protection
- + Conformity with all relevant norms and standards for measurement of transport shocks
- + USB interface
- + Powerful analysis software



# ShockDisplay curve

## EXACT EVIDENCE OF THE TRANSPORT QUALITY

The extremely robust measuring instrument - programmable via function keys and menu or software - stores the 100 largest shock events as well as inclination values. + The measurement results are displayed on the scrollable display with various parameters as well as an alarm function. + The shock and inclination events can also be stored as a signal progression for a later precise evaluation. + The electronics of the data logger is specially optimized for long operating times and works with commercially available batteries. + The real-time measurement makes it possible to record the measured values in a real response time of "zero" milliseconds when

events occur. + Together with the file system and a USB interface, a very user-friendly software concept is implemented. + A multi-level password protection is ensured. + The use of state-of-the-art technology makes it possible to produce this device at a moderate price/performance ratio in compliance with EC directives. + Through its standard compliant measurement, the data logger is ideally suited for the routine transport monitoring of energy equipment such as transformers, switchgear and generators and, thanks to its reliable record and tamper-evident, generally recognized by experts, surveyors and transport insurers.



### MONILOG® ShockDisplay curve



[www.monilog.com/products](http://www.monilog.com/products)



## Technical data of MONILOC® ShockDisplay curve

**Shock measurement:** 100 shock events with the greatest amplitude, three-dimensional, events are also stored in the form of signal graphs with a duration of 1.024 ms at 2 kHz sampling rate, Measuring range 5, 10, 20 or 50g, accuracy  $\pm$  (2% measuring range and 5% measured value) as well as special versions; Frequency range from 1 to 512 Hz (3 dB, digital frequency filter, Bessel 4th order), registration threshold adjustable for each direction of shock; minimum shock duration

**Inclination measurement:** -1 g to +1 g corresponds to -90° to +90° inclination angle, additionally 64 acceleration curves in 3 spatial axes, dynamic range from 0 to 1 Hz, measuring interval adjustable in minutes, recording duration up to 16.000 measuring intervals, self-calibrating in relation to the earth axis

**Display and operating elements:** illuminated LCD display and four buttons, indication of date, time, room vector, shock strength and duration, minimum, maximum, number of events, alarm for shock events, password-protected menu navigation

**Connections:** USB 1.1 and RS-232 to link the device to a PC for configuration and data evaluation

**Housing:** Aluminium, coated, IP65 degree of protection

**Operation and storage conditions:** -20°C to +75°C with alkaline batteries, -40°C to +80°C with lithium batteries, -20°C to +65°C with accumulators  
Storage conditions: max. 98% relative humidity, not condensing, Special designs for increased requirements possible

**Power supply:** 2 Alkaline batteries of size D (R20), NiMH, Li (on request) or external connection  
Batteries from 2 to 10 V possible, measuring time with alkaline batteries 6.000 h

**Housing:** Weight: 860 g incl. batteries, 1.100 g incl. batteries (R20)  
Dimensions: 206x100x40 mm, 215x100x43 mm (R20)

**Fix parameters:** Measuring ranges 5, 10, 20 or 50 g and special models  
Filter characteristic of the digital frequency filter up to 512 Hz

**Programmable parameters:** Recording threshold from 5% of the end value, minimal time of event up to 1 ms, alarm threshold to shock amplitude, Recording threshold to inclination measuring, password protection, ON/OFF protection, clock-time adjustment, display-language (DE, EN, FR)

**Software:** WIN Vista/7/8/10, graphically and scheduler signal analysis with export functions, frequency analysis on DIN EN 13011, device parametrisation, display of device condition and active times, help function, multilingual menu navigation (DE, EN, FR)

**Conformity:** Device certification according to CE, RoHS, WEEE  
Shock evaluation according to DIN EN 15433-6  
Frequency analysis according to DIN EN 13011  
Use according to IEEE C 57150-2012

# WHAT ARE YOU LOGGING FOR?

MONILOG® Risk Loggers measure, signal and document the external influences that threaten the value and functional capability of your damageable items.

We offer the ideal product design, software and sensor system for each and every customer requirement:



**SHOCK**



**INCLINATION**



**VIBRATION**



**TEMPERATURE**



**HUMIDITY**



**PRESSURE**



**GPS  
TRACKING**



**LIGHT  
INCIDENCE**



**TRANSPORT  
RISK**



**STORAGE  
RISK**



**OPERATIONAL  
RISK**



Where are your freight items located? Which levels of stress are and have the items been exposed to?

Are the ambient conditions correct for your stored items? Were they and will they remain stable?

Do mechanical factors put operation of your offshore plant at risk? When do you, as the operator, need to intervene?



Which device maps your particular risk profile? Our product finder provides the answer and sets the course for specific modifications or for new developments. **Productfinder online:** [www.monilog.com/productfinder](http://www.monilog.com/productfinder)