RISK LOGGER
for monitoring risk situations.

MONILOG®
RISK LOGGER



TRANSPORT RISK

STORAGE RISK

OPERATIONAL RISK

MONILOG®

data link TM

GPS / GSM / UMTS-MODULE

SHOCK · INCLINATION · VIBRATION · TEMPERATURE
HUMIDITY · PRESSURE · GPS TRACKING · LIGHT INCIDENCE

- *GPS receiver and GSM / UMTS transmission unit for MONILOG® transport data logger*
- *Monitors sensitive transports in real-time, automatic data transmission*
- *Receives accurate GPS location coordinates via satellite*
- *Transmits measurement data, alarm and status messages by e-mail to the user*
- *Integrated Quad Band EGSM / GPRS and Triple Band UMTS / HSPA + / radio module*
- *Integrated SIM card holder, highly sensitive antenna, own battery*
- *Detailed map-based route tracking with Google Earth®*
- *Web portal for online administration and evaluation*
- *Multi-level password protection*
- *Powerful and license-free configuration software*

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data link TM

MONILOG® RISK LOGGER

TRACKING MODULE FOR THE EXTENSION OF SHOCKDISPLAY CURVE AND ENDAL CURVE DEVICES

The tracking module MONILOG® data link TM is an electronic goods companion for transports of all kinds around the world. ✪ By means of a permanent monitoring of the shipped goods, transport loads can be determined and possible damage can be reduced. ✪ The data link TM transmission module is an autonomous stand-alone solution for shipment tracking, with the functions of tracking and tracing.✪ The user will be informed by e-mail about the current position of his goods and the progress of the transport route already covered. ✪ The device can also be combined with one or two transport data loggers of the MONILOG® series, e.g. the ShockDisplay curve or EnDaL curve. ✪ The system then reads the values of the connected logger in user-configurable intervals and, in addition to the route information, also transmits the complete measurement data records. ✪ The user thus knows at any time, where his sensitive goods are currently located, and at which transport loads they are exposed. ✪ All measured values can be viewed, managed and evaluated via a web portal. ✪ The transmission of the data is either time-controlled or event-driven, e.g. if defined alarm values are exceeded. ✪ The direct, map-based link with Google Earth® visualizes the route tracking very clearly. ✪ In addition to the GPS coordinates, the relevant measured values of the connected data logger are also displayed with an exact time stamp. ✪ By means of an automatic frequency switching, the tracking module can work in various mobile radio systems (GSM, GPRS, UMTS, HSPA), thus ensuring the global availability of all data. ✪ Active radio and GPS antennas can be connected using a SMA plug-in connector. ✪ MONILOG® data link TM works independent of the network and is very energy-efficient with standard, exchangeable LR14 batteries. ✪ Thus, the system is suitable for long-term autonomous applications of more than 2 years, even under harsh environmental conditions. ✪ An additional internal backup battery ensures data retention for at least 10 years, regardless of the battery status. ✪ The device status can be read directly on the display. ✪ The parameters can be set on the device via 4 function buttons. ✪ The connection to the PC or laptop is made via a commercially available USB cable. ✪ Additional interfaces allow for stationary operation with an external power supply, the interaction with other systems (alarm and operating signalling contacts) or the connection of a satellite modem.
✪ The robust, dust- and splash-proof aluminium housing (degree of protection IP65) guarantees the safe operation of the device in outdoor operation. ✪ A license-free configuration software enables firmware updates.

MONILOG® data link TM

VIEW 360°

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RISK LOGGER

Technical data of MONILOG® data link TM

Housing:	Aluminium, coated, IP 65 degree of protection Weight 1,15 kg with batteries Dimensions 160x90x60 mm Surface mounting (recommended to screw on), alternatively magnetic foot-mounting
Operation and storage conditions:	-20 °C to +70 °C with alkaline batteries -40 °C to +85 °C with lithium batteries
Display elements:	1 light-emitting diode (red/green), bistable monochrome display 128x128 pixels
Interfaces:	USB 2.0 mini AB Client for connection with PC/laptop 3 RS-232 (115 kBaud) 2 data loggers and 1 external satellite modem (optional) 2 signal inputs, 2 switching outputs via M12 plug connector (optional)
GPS:	Channels: 22 Antenna: SMA socket for connection of an external passive antenna 50 Ω (3 to 30 mA, 3 V, rod or cable antenna)
Mobile communications:	Frequency ranges: Quad Band EGSM/GPRS → 850/900/1.800/1.900 MHz Triple Band UMTS (HSPA/HSPA+) → 850/1.900/2.100 MHz SIM card: Receptacle for 1,8 V or 3 V SIM card/standard SIM/micro SIM (on request) Antenna: SMA socket for connection of an external passive antenna 50 Ω (rod or cable antenna)
Data storage:	Data receipt for a minimum of 10 years (independent of battery status) Storage type: 512 MB flash data memory/128 kB FRAM parameter memory
Software:	For operating systems WIN Vista/7/8/10 Parametrization of the devices and indication of the status data Help function, multilingual (DE, EN, FR)
Operating time:	More than 2 years, dependent on the reception conditions battery type and configuration (transmission interval)
Device approval:	CE, FCC, IC

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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:

IMPACTS

INCLINATION

VIBRATION

TEMPERATURE

MOISTURE

PRESSURE

GPS TRACKING

LIGHT INCIDENCE

TRANSPORT RISK

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

STORAGE RISK

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

OPERATIONAL RISK

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. Product finder online: www.monilog.com/productfinder

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