

data link™ MADE IN GERMANY

GPS / GSM / UMTS-Module

ACCURATE LOCATION POSITIONING AND WORLDWIDE TRANSPORT CONTROL



- GPS receiver and GSM / UMTS transmission unit for MONI LOG® 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
- Detailed map-based route tracking with Google Earth®
- Web portal for online administration and evaluation
- Integrated SIM card holder, highly sensitive antenna, own battery
- multi-level password protection
- powerful and license-free configuration software



The tracking module MONI LOG® data link TM is a small, almost invisible 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 MONI LOG® 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 tra-

cking 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. MONI LOG® 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.

Technical data

Housing:	Aluminum lacquered, degree of protection IP65 1.15 kg with batteries H 160 x W 90 x D 60 mm Surface mounting (recommended to screw on), alternatively magnetic foot-mounting
Operating 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 96 x 96 pixels
Interfaces:	USB 2.0 mini AB Client for connection with PC/laptop 3 RS232 (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 the connection of an external active antenna 50 Ω (3 - 30 mA/3 V/rod or cable antenna)
Mobile communications:	Frequency ranges: Quad Band EGSM/GPRS 850/900/1800/1900 MHz, Triple Band UMTS (HSPA/HSPA+) → 850/1900/2100 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 memory:	Data receipt: at least 10 years (independent of the battery status) Storage type: 512 MB flash data memory/128 kB FRAM parameter memory
Software:	For operating systems WIN Vista/7/8/10, Parameterization 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)