Product Data Sheet

MONIT - Monitored Padlocks

MPL-04 in unlocked position

Key Features:
- Mechanical padlock body from Abloy.
- All Abloy keying systems can be used, including the Abloy Cliq.
- Patented electronics that indicates when the lock is opened, locked, tampered with, shackle cut or removed from site.
- The locks electronics communicates the status of the lock to a nearby Gateway.
- The status of the locks can be viewed at the server and communicated to a smart phone or sending email / SMS alerts.
- Products available: MPL-04 Monitored Padlock, MSS-04 Monitored Bolt, MCU-01 Gateway.

Overview:
The Sterna MONIT Padlock is an Abloy 340 padlock body and we have added our own designed shackle with electronics. The MONIT is an on-line system and the only padlock on the market with built in sensors, so it can indicate in real time when the padlock is opened, locked, shackle cut, tampered or being removed from a site.

It is an on-line system battery powered and the MONIT padlocks communicates with a local Gateway, which transfers all the data back to a server. Depending of application, 500 MONIT padlocks can be connected to the Gateway within 100 to 400 meters.

The MONIT management software is set to control if a certain lock is supposed to be opened at a certain time and direct where all type of alarms / status reports is sent. It can also have a validation if padlock is opened in the right geographical co-ordinates.
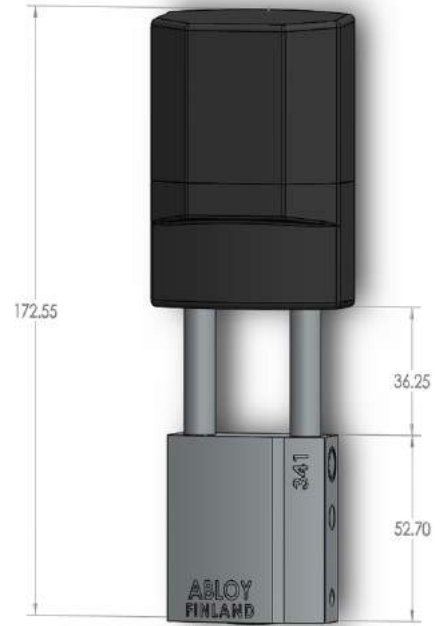
Applications:
Suitable applications to monitor the status of a MONIT Padlock are e.g. :
- Trucks with precious cargo like petroleum, valuables, hazardous, food or similar.
- Containers or storage units in e.g. building sites, remote sheds or unmanned sites.
- Gates to Telco base stations, Utility installations, Defense, Mining, Hospitals and Banks.
- Marinas, where all boats could be centrally monitored by the Marina and the boat owners.
- Handyman vans with expensive tools to prevent theft and unauthorized work in weekends.
- Any sensitive door, gate, cage or compartment which needs to be monitored, so unauthorized access or vandalism is detected in real time.
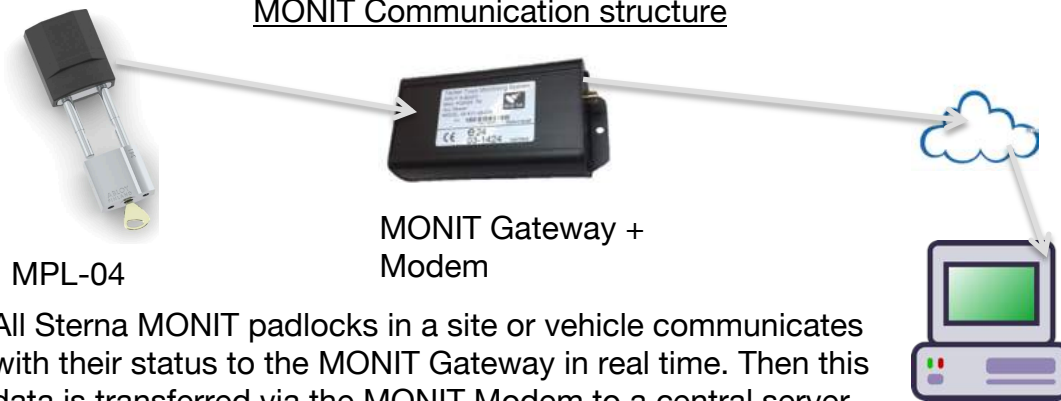
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Technical Data
- 3.6 V internal Lithium battery.
- Full 2-way Duplex in 433.92 MHz (ISM) or 868 MHz.
- -40C to +70C operating range temp.
- Vibration / Chock as MIL STD 810D for mobile equipment and SAE J1455.
- Weight 435 g.
- International Approvals/Certifications:
* EMC, EMI, RF-FCC Part 15 CE/EN 300.301.
* CE/EN 60950, CAN/CSA UL 61010
* ATEX Grp 2, Cat1, Zone 0, UL 14.0012X Ex IIB T4 Ga
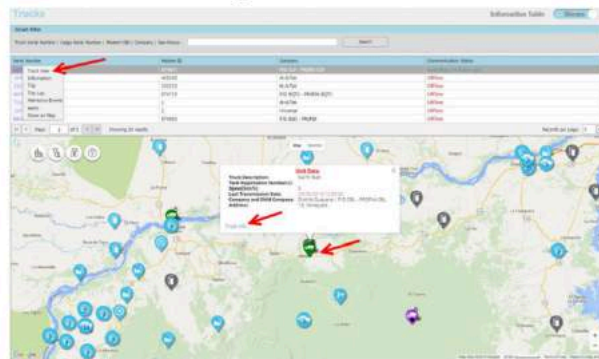* PESO approval.

Dimensions of MPL-04

MONIT Communication structure

MPL-04

MONIT Gateway + Modem

All Sterna MONIT padlocks in a site or vehicle communicates with their status to the MONIT Gateway in real time. Then this data is transferred via the MONIT Modem to a central server with the Sterna Monitoring Software

The Sterna Monitoring Software

- The Monitoring Software:
  - Status of Monitoring Devices.
  - Flexible user account.
  - Detailed site data.
  - Settings of alerts.
  - Detailed event information.
  - Maintenance dashboard.
  - Operational dashboard.
  - SDK for communicating with clients management software.

- The Sterna Monitoring Software also allows you to pull out any form of data and via an SDK this data can be controlled centrally from the Customers own management software

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Ver. 1.4