



**HIDDEN TECHNOLOGY**  
systems international ltd.

## MagnaTik Rapid Deployment GSM / GPS Unit

### GSM / GPS Rapid Deployment Tracking System Product Sheet

The MagnaTik is the third generation of HTSI's portable Rapid Deployment covert tracking system. Its unique performance, size and cutting edge power management makes this system truly one of a kind.

#### Rapid deployment

With the powerful earth-magnet plate integrated into the Mag3 unit it can be deployed within seconds. The unique 360° can "see" satellites without having to have a direct view of the sky. This allows the Mag3 in extreme circumstances to be deployed under vehicles to be fully operational.

#### Power consumption

This system is delivered with an internal rechargeable Li+ battery. Depending on the setting of the unique three Power Mode Management configurations the Mag3 can be operational between 30 hours and 31 months. Connected to the standard external battery the Mag3 can be operational between 90-120 hours and 84 days. Maximum operation life is up to 200 hours and 155 days if multiple batteries are connected.

#### Data logging

The Mag3 has a powerful 8Mb Flash memory on board, this allows the system to store information about position, time, heading, speed, etc. The system can be configured to log every 20 seconds to every 42 minutes. The Mag3 will send an SMS warning when the log is nearly full to prevent overwriting of information. The log file can be downloading via GSM to the CP2 tracking software or directly via an RS485 cable

#### Tracking

Besides live tracking from the CP2 software via SMS or GSM Data the MagnaTik can be configured via various timers and triggers to report back to the software.

#### GSM

The Mag3 has a tri-band GSM module that allows the system to be deployed in almost any GSM network around the world.

#### GeoFence

The MagnaTik has 16 configurable GeoFence areas. The system can be configured to trigger alarm messages and transmit data to CP2 when leaving and/or entering defined areas.



#### Features

- Worldwide GSM Tracking
- SMS and Data connections
- Compact footprint
- Internal battery
- Operational up to 31 days
- Extra battery options: up to 155 days standby operation
- Unique 360o GPS antenna
- 16 Configurable GeoFence areas
- Cell site ID logging and reporting
- 8Mb Flash memory logging
- 32,512 logged positions
- Weatherproof enclosure for extreme harsh and aggressive environments.
- Converter lead for hardwire deployment



Hidden Technology Systems International Ltd.  
T. +44(0)1708 631 333 • F. +44(0)1708 631 444  
info@hiddentec.com • www.hiddentec.com





## Specifications for the MagnaTik Rapid Deployment System

### Physical

Size:	160mm X 66mm X 25mm (L x W x D) with external GSM antenna
Enclosure:	Machined Acetal Enclosure built to IP67 specifications. Internal magnetic mounting plate. Weatherproof enclosure
Connections:	External Quad-band GSM antenna Internal GPS antenna with connector for optional external GPS antenna
Weight:	300 gram inclusive of battery and antennas

### Memory

Memory:	Internal FLASH
Data logging:	32,512 positions
Records location:	On timer, On event
Download:	Via GPRS, GSM data or cable

### Power Management

Power mode:	3 different power modes
On internal battery:	Between 52 hours and 6 months 3 internal Lithium Ion batteries, total 3600 mAh <i>Unit can be configured for Deep Sleep Mode providing extended Standby deployment</i>
With standard external battery added:	Between 121 hours and 1.16 years. Multiple batteries can be connected in series for extended operations. One external bat-tery will multiply the operating time with 2.33 Two external batteries will multiply the operating time with 3.66 Unit can be configured for Deep Sleep Mode providing extended Standby deployment

### GSM

GSM module:	Quad-band GPRS, SMS GSM module
Communication:	GPRS, SMS and GSM Data

### GPS

GPS module:	12 channel GPS receiver
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### Environmental Elements

Operating temperature:	25° Celsius to 70° Celsius
Input/output interface:	I/O connector with one inputs and one output. Input is active when connected to ground. Output is an open drain i.e.: when active connected to ground, when inactive open, max voltage 30 Volts.

### Optional Extras

Converter lead:	Allows the MagnaTik to be deployed hardwired to 12/24v supply.
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