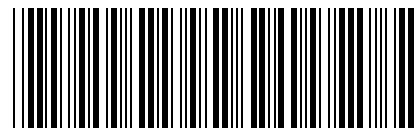




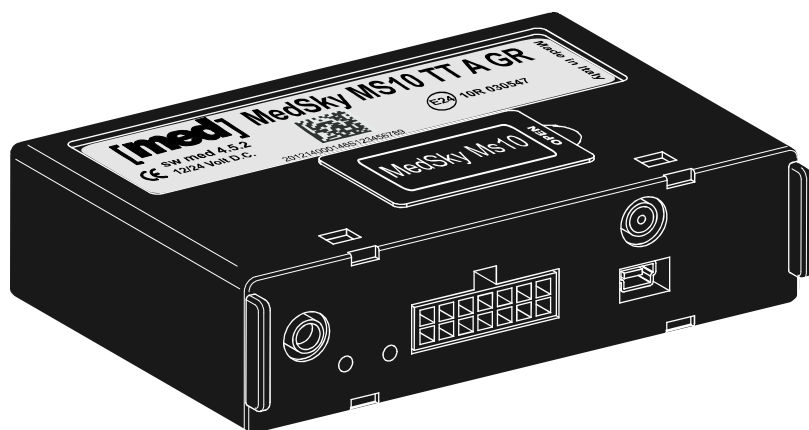
AUTOMOTIVE SOLUTIONS



190100613

MEDSKY MS10 TT A GR

MAY 2022



GPS / GSM location system with back-up battery and alarm management.

USER MANUAL

- ENGLISH -

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BUREAU VERITAS
Certification



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MAIN FUNCTIONS

- GPS detection of: Date / time, position, speed and direction of travel of the vehicle.
- Detection of the "motion" / "movement" of the vehicle using a special internal sensor.
- Recording of routes taken (position, speed, etc.) and the installed sensor equipment in the internal memory ("BLACK BOX" function).
- Control of inputs, management, and transmission of alarms to the User and / or C.S.
- Remote control operation.
- Continuous monitoring by telephone for reply to the User and / or C.S.
- Energy savings management.
- Out of order for vehicle maintenance.
- Management of alarms also by user mobile phone.
- Vehicle tracking, controlled by the C.S.
- Peripheral parameter programming / final inspection by PC, mobile telephone and / or C.S.

INTRODUCTION

Med Sky MS10 TT A GR (hereinafter referred to as **MS10**) is a peripheral for localizing mobile equipment that uses the GPS (Global Positioning System) satellite system.

Its limited size, buffer battery, and "MOTION SENSOR" facilitate installation and improve performance, while reducing power consumption and costs.

It can be used for **SECURITY, LOGISTICS**, or simply as a **LOCALIZER**.

Communication is performed using an integrated telephone module, which can use four different channels: **Data, Voice, SMS**, or **GPRS**, based on the type of signal you want to send.

External Alarm unit can also be used, managed by the original remote control, with their own remote control.

The system is extremely "flexible" and can be used on vehicles that are extremely different from each other, such as passenger cars, commercial and industrial vehicles, campers, work equipment, farm equipment, trailers, etc.

When installed for the **SECURITY**, the vehicle can be controlled and managed by the User to contact the **MS10** by mobile telephone to determine its position or to receive alarm messages, rental-free.

The **Security Centre / Surveillance Operation Centre (C.S.)** can chase the vehicle (real-time), check its status, position and send remote controls to interact with the peripheral (ex. to put it "out of order", to temporarily deactivate the sensors, etc.).

The **C.S.** contacts the police to get the vehicle back.

In some countries you can subscribe to the **C.S.**; system function varies according to the Service Level subscribed to.

Consult the instructions pertaining to the C.S. and Service Level chosen.

When used "**STAND ALONE**" the User receives all alarms directly and manages the commands and sensors by SMS.

In this configuration, the User can enter up to 10 telephone numbers to receive messages in the event of an alarm.

The alarm message can be sent by telephone to the Main User's phone (if there is a VOICE line) or by SMS, as well as to the Secondary Users.

The SMS also indicates the type of alarm detected.

When used as a **LOCALIZER** the user to view the position by SMS:

- **POSM:** It provides the link to see the map showing vehicle location with a dot.
- or: **POSG:** For those who have a "SMARTPHONE" with internet connection.
- **POS:** It provides the geographical coordinates (latitude and longitude) to convert into a dot on an electronic map.

The MS10 TT A GR can warn if the vehicle exceeds the speed set (calculated using the GPS (satellites) by SMS.

For LOGISTICS it can allow you to see the position of the vehicle and the routes travelled on the days selected directly on a PC screen (via Internet WEB).

A subscription to the service (hereinafter C.S. WEB or C.S.) is required.

GPS

The MS10 contains a **GPS** receiver that allows you to manage the position of the vehicle using satellites determining the latitude, longitude, altitude, and **UTC** time (time with reference to the **GREENWICH meridian** mean time: **2 hour less** than Greece Standard Time). Using these parameters, the system can calculate the vehicle speed and the distances travelled with good approximation. Generally, the precision of the signal is limited to an error of a few meters. In special areas or situations, the error due to GPS can increase (for example in time of war, or when the vehicle passes under very high buildings or in narrow valleys, which impede satellite reception). Travelling through tunnels or parking under metal or cement roofs impedes reading. Under these circumstances, when interrogated, you are given the data for the last reading performed under visible sky.

GPRS

GPRS can create a continuous connection with the SC or FMC with limited costs, allowing them to save internally automatically, almost in real time, all of the vehicle's movements and the changes in the sensors installed, allowing the position of the vehicle to be monitored.

SIM-CARD

MS10 requires a SIM-CARD, which you can purchase from Mobile Phone Operators.

For "stand alone" use, you must have at least one "**SMS**" (DATA and/or VOICE line).

With the C.S. / C.G.F. for "FLEET MANAGEMENT" and / or "LOGISTICAL" applications, you must have a "DATA" line and for C.S. WEB applications, you must have a "GPRS" line.

WARNINGS:

- **If the vehicle travels outside the country, make certain that the SIM is enabled for international roaming.**
- By using M2M SIM CARDS (no voice, just data and SMS) the system can only be used via SMS.
- **Ask for a "BY VOLUME" rate for the GPRS** (not by time). Evaluate intently all the different offers from the various Phone Operators to find the most convenient one.
- We advise you to use a subscription SIM-CARD and not a PRE-PAID or PAY-AS-YOU-GO SIM-CARD, which could make the Service inefficient (Generally speaking if PRE-PAID or PAY-AS-YOU-GO SIM CARDS are not topped-up at least every 8/12 months, the telephone operators may "cancel" them, even there is still credit left on them).
- If the SIM CARD has a data line, the device can be updated via telephone if a new software release is required.
- Do not use "UMTS" SIM CARDS because they are not compatible.

WARNINGS

- We recommend that it be used with full respect for the current PRIVACY regulations.
- Use of this manual and the commands it contains is reserved for the vehicle owner.
- The following instructions refer to the system once fully installed and connected. If some parts are not connected, operation of the system will be reduced.
- Landi Renzo S.p.A. is NOT responsible for improper use of the product, delays sending alarms, or alarms not sent that depend on the telephone provider, the area "coverage", lack of "credit" for telephone traffic.
We recommend that the efficiency of the system be checked periodically.
- If a "pre-paid" or "debit" SIM-CARD is used, periodically check the residual credit as the system only functions if the SIM-CARD has sufficient credit for communications (outbound call).
- Landi Renzo S.p.A. declines any and all responsibility and will revoke the guarantee if the product, or part thereof, is used improperly; if it is tampered with, or it is combined with any devices that are not listed.
- Landi Renzo S.p.A. reserves the right to make changes, updates, or technical modifications to the product at any time, without prior notice.

USE OF THE SYSTEM

MAIN USER MOBILE TELEPHONE REGISTRATION

Send the telephone number to register to the **SMS** number of the **MS10** in the **SMS**:

REG ON

(one space between the words)

The peripheral will automatically save the telephone number that sent this message, enabling it as the "**MAIN TELEPHONE**".

MS10 will reply to the mobile telephone saved with the **SMS**:

"MedSky MS10 Registration of the number +30XXX/XXXXXX as main user. ATTENTION NO PASSWORD FREE ACCESS",

This indicates if there is a password entered and if you have total or limited access.

See pag.15.

WARNING: If the date and time are present, these are indicated by the phone service provider and for this reason they can be indicated, regardless, at either the beginning or the end of the message.

If the mobile phone used saves the phone number of the **MedSky MS10 SMS**, associated with the type or plate number of the vehicle, when you receive a message from this number your mobile phone will indicate which vehicle has sent the message.

- **It is possible to change the registered mobile phone** by sending the "**REG ON**" message from another phone.

When the command is received, the **MS10** will automatically send an **SMS** to both mobile phones, confirming the new registration and the access status.

- To "display" which phone number is the "MAIN USER", send the SMS:

REG

(only type REG)

The MS10 will reply by SMS with the mobile phone number registered as the main user:

"MedSky MS10 Registration of the number +30XXX/XXXXXX as main user".

If it answers: "MedSky MS10 NO REGISTERED NUMBER" then there is no "Main user" phone number registered. Therefore, if not associated with the C.S., the system cannot send alarm messages, even if it is "IN SERVICE".

- If you want to **"delete"** the Main User phone number, without replacing it, send the following SMS:

REG OFF

(one space between the words)

The peripheral will reply to the registered mobile phone with the SMS:

"MedSky MS10 Registration of the number +30XXX/XXXXXX as main user has been cancelled".

WARNING:

- If there are any secondary users registered, these numbers will be deleted.
- **A Main User or the C.S. must always be registered otherwise the system cannot reduce the power consumption and will enter stand-by.**
- **The SMS can be written with capital or small letters, indifferently.**

REGISTRATION OF SECONDARY USERS

In addition to the **MAIN user** (the telephone number automatically registered by sending the **REG ON SMS**), **nine (9) secondary users** can be registered.

Send the MS10 the telephone numbers from the Main Users phone using the SMS:

RON <+30xxxxxxxxxxx > (do not enter the <> parenthesis, type only the space to separate the words. The telephone number must ALWAYS be preceded by the country code.
For example: **+30** = for GREECE, **+39** ITALY).

Repeat this command for each Secondary User to be registered.

The peripheral will save the telephone number and reply to both telephones with the SMS:

“Secondary user has been registered “+30XXXXXXXXXXXX””

Or: “Secondary user already in the list”, if already registered. See ALARM RECEPTION.

WARNING:

- The Main user can block access by secondary users using the SMS **ACC OFF** and keep the secondary user from locating the vehicle. See pag. 15.
- If ALR POSM / ALR POSG or ALR POS are enabled, the additional information about the position will only be sent automatically to the Main User. See pag. 8.
- If the Main User is replaced by a new one, all the secondary users remain registered.
- If you cancel the Main User using the REG OFF SMS all secondary users are eliminated, too.

DISPLAY OF ALL REGISTERED SECONDARY USERS

Send the following SMS from the Main User telephone:

RON (only type RON)

The MS10 will reply indicating the Registered Secondary Users in sequence:

<RON> “+30xxxxxxxxxxx”.....“+30xxxxxxxxxxx” up to a maximum of nine numbers.

If there are no registered secondary users, the answer is: “RON”.

DELETING ALL SECONDARY USERS

To delete ALL secondary users, leaving only the Main User.

Send the following SMS from the Main User telephone:

ROFF (only type ROFF)

The MS10 will reply with the SMS: “ROFF ALL secondary users deleted”

DELETING ONE SPECIFIC SECONDARY USER

Use the Main User telephone to send the SMS:

ROFF <+30xxxxxxxxxxx > (do not enter the <> parenthesis, type only the space to separate the words. The telephone number must ALWAYS be preceded by the country code. For example: **+30** = for GREECE, **+39** ITALY).

Repeat this command for each Secondary User to be deleted.

The MS10 will reply to both telephones with the SMS:

“Secondary user not present “+30xxxxxxxxxxx””

SECONDARY USERS - UNAUTHORIZED COMMANDS

If a secondary user attempts to send a command that is unauthorized, the system replies: “USER NOT ENABLED FOR THIS COMMAND”

or: “SERVICE LEVEL X: COMMAND NOT AVAILBLE”

OUT OF ORDER

The system can be put **OUT OF ORDER**, for example, if the vehicle is taken to the shop for maintenance, prior to detaching the battery terminals, in order to avoid useless telephone calls or SMS. Send from the Main User telephone:

COM FS (one space between the words)

The MS10 will reply with the SMS: "COM" with: "**FS**". See page 12.

WARNING:

- When the system is "**OUT OF ORDER**" it does not send alarms and not send position on the WEB. It can only be queried.
- To return the system "**IN SERVICE**" as quickly as possible.

Every day the system will send an SMS to the Main User to "remind" the user that the system cannot send alarms "WARNING: SYSTEM OUT OF ORDER"

If you do not want to receive this "reminder", send the SMS:

COM FS OFF (one space between the words)

The MS10 will reply with the SMS: "COM FS OFF".

To reactivate sending warning messages about the OUT OF ORDER system by SMS, send the SMS:

COM FS ON (one space between the words)

The MS10 will reply with the SMS: "COM FS ON".

SYSTEM IN SERVICE

To restore sending alarms, send the SMS:

COM IS (one space between the words)

The MS10 will reply with the SMS: "COM" with: "**IS**". See page 12.

The system will now send any alarms detected and the position with **WEB**.

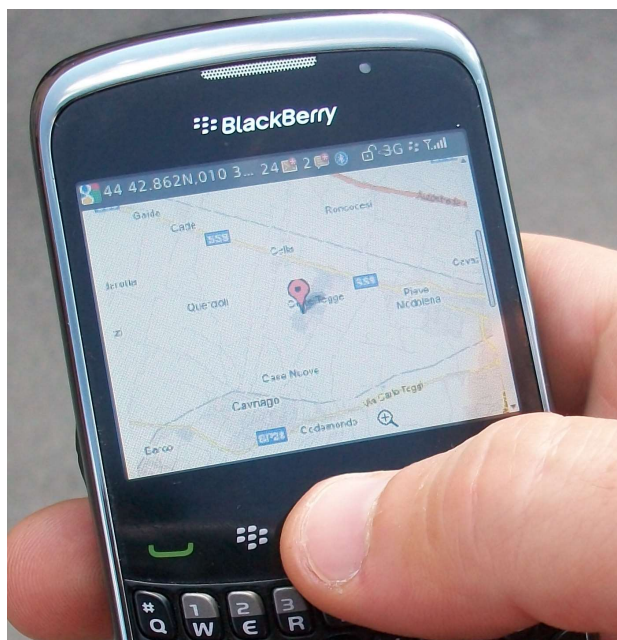
VEHICLE POSITION RECEPTION

There are two different ways to query by SMS:

POSM or **POSG** (only type POSM or POSG)

It allows you to receive the link on your mobile to see the map with the dot showing where your vehicle is.

WARNING: An SMS may only be used with "SMARTPHONES" that have an Internet connection.



POS

(only type POS)

To receive the following information: **MS10 TT AGR** = peripheral model

- UTC: xx:xx:xx** = The time in "hh:mm:ss" and the date as "DD/MM/YYYY" of the last position recorded (UTC = GREENWICH MEAN TIME: **2 hour less** than Greece Standard Time).
- Lt: N xx xx' xx"** = The last position recorded, expressed in geographic coordinates:
Ln: E xxx xx' xx" with Lt = latitude N = north Ln = Longitude E = East.
- Alt: xxxxx m** = Height in meters.
- Vel: xxx km/h** = Speed in km/h, indicative, measured by GPS or with the odometer.
- Dir: xxx gra** = The direction of travel in degrees (ex. North = 360°).
- Km Tot: xxxxxxx** = The total number of kilometres travelled.
- Km Parz: xxxxxxx.x** = The trip kilometres travelled.
- Vb: xx.x V** = System power supply voltage.
- Key Off** = The ignition key is off **[+15] OFF** or is on **[+15] ON**.

REQUEST VEHICLE POSITION

When the vehicle stops, the MS10 records the current position. Occasionally it checks that this does not change. To activate the position check manually, send:

GPS NEW

(one space between the words)

The unit will reply with the SMS: "**POS**" indicating the date of update or, if not able to update it (ex. if the vehicle is under a metal or cement roof), it supplies the last recorded position: for this reason, **check the date and time indicated in the message**.

If the message is re-sent while it is busy trying to calculate the position, it will send the message: "Gps is busy".

WARNING: The position calculation can require a few minutes.

TRIP ODOMETER

The main user can change the trip odometer of the MS10 by sending it the SMS.

To set the total kilometres travelled by the vehicle, send an SMS:

KMT xxxxxxx

(one space between the words)

The MS10 will reply with the SMS: "COM" with: "**KMT xxxxxxx**" and "**KMP xxxxxxx**".

For change the trip odometer of the MS10 by sending it the SMS:

KMP xxxxxxx

(one space between the words)

The MS10 will reply with the SMS: "COM" with: "**KMT xxxxxxx**" and "**KMP xxxxxxx**".

For zero the trip odometer of the MS10 by sending it the SMS:

KMP RESET

(one space between the words)

The MS10 will reply with the SMS: "**KMT xxxxxxx**" and "**KMP xxxxxxx**".

MAXIMUM SPEED CONTROL

The MS10 can warn if the vehicle exceeds the speed set (calculated using the GPS satellites).

We do not recommend entering speeds less than 10 km/h due to the system tolerances.

Each time the motor is turned on, the first time the maximum speed set is exceeded, a warning message is sent to the Main User registered.

To set the maximum speed, send the SMS (in km/h, maximum three digits):

VEL <xxx> (do not enter the "<>" parenthesis, type a space between the words)

The MS10 will reply with the SMS: "SPEED LIMIT xxx Km/h SET"

When the set limit is exceeded, the registered telephone will receive the following message:

"WARNING! SPEED LIMIT xxx Km/h EXCEEDED!"

- To display the speed set, send the SMS:

VEL (only type VEL)

The MS10 will reply with the SMS:

"SPEED LIMIT xxx Km/h SET" or, if not set: "SPEED LIMIT NOT SET"

To cancel the previously entered speed limit, send the SMS:

VEL OFF (one space between the words)

The MS10 will reply with the SMS: "SPEED LIMIT NOT SET".

SYSTEM RESET

To "reset" the system, in alternative to pressing the EMERGENCY BUTTON for at least 15 seconds, until the LED blinks very quickly, send the SMS:

RESET (only type RESET)

All of the previously set-up functions remain operative.

The MS10 will reply with the SMS: "RESET"

RECEIVING ALARMS

ALARM RECEPTION WITH GEOGRAPHIC COORDINATES:

To receive messages for all alarms automatically on the main user's telephone, even regarding the position of the vehicle, send one of the two following SMS:

1) To receive the map with the vehicle on your "SMARTPHONE" (with Internet connection):

ALR POSM or **ALR POSG** (one space between the words)

The MS10 will reply with the SMS: "<ALR> UPDATED: POSM"/ "<ALR> UPDATED: POSG"

2) To also receive the **position of the vehicle as GEOGRAPHIC COORDINATES:**

ALR POS (one space between the words)

The MS10 will reply with the SMS: "<ALR> UPDATED: POS"

ALARM RECEPTION WITHOUT GEOGRAPHIC COORDINATES:

To receive only the alarm messages without additional information about the location of the vehicle, send the SMS:

ALR OFF (one space between the words)

The MS10 will reply with the SMS: "<ALR> UPDATED NOT SET".

DISABLING AN ALARM WARNING CALL

If the SIM CARD used in the MS10 has a VOICE line, in the event of an alarm the system sends a warning call to the main phone followed by an SMS with the alarm found.

To exclude sending the call, send:

COM RING OFF (one space between the words)

MS 10 responds with the SMS of the **COM** (pag.12), indicating: "**RING OFF**".

WARNING:

- An SMS is always sent, provided there is coverage and credit on the SIM.
- SWe advise against excluding the call as it is generally quicker to get to you compared to the SMS; what's more, the mobile signals it more effectively.

RE-ENABLING AN ALARM WARNING CALL

To re-enable sending the alarm warning call (if disabled previously), send an SMS:

COM RING ON (one space between the words)

MS 10 responds with the SMS of the **COM** (pag.12), indicating "**RING ON**".

LIST OF ALARMS

With a telephone call, you will receive an "alarm message".

The SMS indicates the type of alarm, date and time:

Message	Generated By:
EMERGENCY	Short pressure on the emergency button.
THEFT	Detected by central alarm unit (optional).
MOVEMENT	By internal "motion" sensor and GPS.
ANTI-TOW	Unauthorized movement of the vehicle (GPS) ignition off [+15] OFF.
ALARM ZONE LEAVING	Exit from forced geo fence.
POWER CUT	External power source cut-off when system on.
LOW BATTERY	Main vehicle battery monitoring.
GPS HIDDEN	With ignition on [+15] ON the system does not "see" any satellite.
SPEED LIMIT	Maximum speed set exceeded.
WARNING: SYSTEM OUT OF ORDER	Message that the system cannot send any alarms.

WARNING:

- Changes in the signals may depend on non-standard connections, often depending on the original characteristics of the vehicle.
- Alarm sent to main user telephone consisting of an advisory call followed by an **SMS**.
- Other alarm messages that may be present indicate past messages already indicated when the occurred.

DESCRIPTION OF ALARMS

When an alarm occurs, the MS10 sends a message to the telephone registered as the Main User, and then, if present, to the Secondary Users.

WARNING:

- The EMERGENCY, THEFT and POWER CUT alarms are always active.

ALARM EMERGENCY

By pressing the dedicated button, the system sends a "request for assistance".

- Purpose: **ALARM EMERGENCY**
- Function always active.
- Message sent immediately.

ALARM THEFT

When the external Central Alarm indicate the alarm detected by the input.

- Purpose: **ALARM THEFT**
- Function always active.
- Message sent immediately.
- After sending an ALARM, the input remains cut-off for **60 seconds** and is then reactivated automatically.

ALARM MOVEMENT

"Towing" or "Transporting" the vehicle for a few hundred metres (movements detected by the internal sensors) with the ignition key off [+15] OFF.

- Purpose: **ALARM MOVEMENT**
- After sending an ALARM, the input remains cut-off for **60 seconds** and is then reactivated automatically.

WARNING:

- If the vehicle is loaded on another vehicle, for example, a car-carrier, ferry or car-train and the **MS10** is enabled; you must temporarily deactivate this sensor in order to avoid false alarms.
- On boats, the "movement" sensor must be completely disabled.

ALARM ANTI-TOW

The MS10 automatically records the position in which the vehicle is stopped: **[+15] OFF**. When the **[+15] OFF**, it periodically checks its position. If it detects a different position than that in which the motor was turned off, it sends the alarm.

- Purpose: **ALARM ANTI-TOW**

ALARM ZONE LEAVING - EXIT FORCED GEO FENCE ALARM

If you exit the area that has been entered (forced geo fence), it sends the alarm.

- Purpose: **ALARM ZONE LEAVING**
- Activate by SMS.
- The message is only repeated if the vehicle returns to the forced geo fence and exits again.
- Only one alarm is sent each time the vehicle exits the area.

ALARM POWER CUT

It indicates when the external power to the MS10 is cut off, with the In Service system, the main connector connected and the internal battery charged.

- Purpose: **ALARM POWER CUT**
- Message delayed 60 seconds.

ALARM LOW BATTERY

When the battery of the vehicle is almost discharged and requires rapid recharging.

- Purpose: **ALARM LOW BATTERY**
- Function always active.

ALARM GPS HIDDEN

When the motor is on, this indicates the MS10 has not been able to update the vehicle position for more than 30 consecutive minutes (standard set-up).

- Purpose: **ALARM GPS HIDDEN**
- Function activated when the ignition key is on **[+15] ON**.

WARNING:

- If the vehicle is in a tunnel, in a building, in an underground parking garage, or in a similar situation in which the system cannot detect the satellites, and the ignition remains on for more than 30 minutes, this alarm is triggered.
- If installed on equipment working in tunnels or in special applications, this control can be disabled or the time to alarm can be changed.

SPEED LIMIT

It is possible to set a maximum speed for the vehicle by SMS.

When the vehicle exceeds this speed, a message SPEED LIMIT EXCEEDED is only sent to the Main User telephone by SMS.

- Purpose: **WARNING! SPEED LIMIT xxx Km/h EXCEEDED!**
- Function activated when the ignition is on **[+15] ON**.
- Each time the ignition is turned on **[+15] ON**, the first time the set speed is exceeded, the **MS10** sends a message to the phone of the Main User.

WARNING:

- This function is only managed by the Main User.
- The speed is only indicative as it is directly dependant on the data measured by the GPS satellites. See: MAXIMUM SPEED CONTROL on page 8.

CHECK OF ALARMS SENT

PTo receive a list of the latest alarms sent, send the SMS:

A

(only type A, as in ALARM)

LThe peripheral will reply with one of the following SMS:

“**MS10** Stored Alarms: No alarm”;

or:

“MS10 Stored Alarms:

For Example:	Date (dd/mm/yy)	Hour (hh:mm:ss)	Alarm Type
	20/01/22	14:52:12	ALARM ANTI-TOW
		14:40:10	ALARM THEFT
		10:10:50	ALARM THEFT
	15/01/22	08:02:00	ALARM MOVEMENT

SYSTEM STATUS

The system status can be displayed by sending the **SMS**:

COM (no space)

The peripheral replies with an **SMS** that summarizes the current status:

- <COM>** = Command sent, that the system is answering.
I2 ON = Central Alarm input 2: **ON**=activated (sends alarms) **OFF**=deactivated.
IS ON = System in: **FS** = Out of Order; **IS** = On Duty (sends alarms);
ON = sends SMS message, **OFF** = does not send daily SMS.
MOV ON 5 = Motion sensor: **ON** = Activated or **OFF** = Deactivated;
Sensibility **5** = Average (**standard set-up**), **1** = high... **9** = low.
STAZ ON 0500 = Vehicle parking: **ON** = activated or **OFF** = deactivated;
Parking tolerance = **500** meters (**standard set-up**).
GEOF OFF 010,0 = Forced vehicle parking: **ON** = Activated or **OFF** = Deactivated;
XXX,X = the distance in km from **010.0** (= **10 km**).
VER ON 10080 = Vehicle parking: **ON** = Activated with 1 SMS every 7 days
(corresponds to 10080 minutes) or **OFF** = Deactivated.
VER GPS ON = Check antenna and GPS with motor on: **ON** = Yes, **OFF** = No.
PER GPS 0060 = Position control by the GPS every **0060** minutes (vehicle standing still).
RING ON = Alarm warning call: **ON** = Activated, **OFF** = Deactivated.

WARNING: This message is also sent as an answer to many of the SMS messages.

STOP GPS BLACKOUT ALARM

You can deactivate the "GPS BLACKOUT" alarm using the SMS:

COM GPS OFF (one space between the words)

WARNING: We recommend only excluding this message for vehicles working inside buildings or tunnels.

RESET GPS BLACKOUT ALARM

To reset control of the GPS and its antenna, send the SMS:

COM GPS ON (one space between the words)

DEACTIVATE MOTION SENSOR (integrated)

If it is jolted and moved at least 300 metres it sends an alarm: **ALARM MOVEMENT**

If you want to activate the system while the vehicle is travelling on a car-carrier, a car-train, or a ferry, or when people are in a camper or the cab of a truck, you must deactivate the internal motion sensor by sending the SMS:

COM MOV OFF (one space between the words)

RESTORE MOTION SENSOR

To reactivate the internal motion sensor, send the SMS:

COM MOV ON (one space between the words)

MODIFY THE SENSITIVITY OF THE MOTION SENSOR

To modify the sensitivity of the internal motion sensor, send the SMS:

COM MOV X (one space between the words)

X = a number from **1** (highest sensitivity) to **9** (lowest).

0 = normal use value cannot be set: for workshop tests only.

The standard setting is **AVERAGE, X = 5**

DEACTIVATE ANTI-TOW SENSOR (integrated)

Each time the motor is turned off, the system records the position of the vehicle (GPS). If it is moved a distance greater than the set threshold (**500 m standard**), an alarm is automatically sent: **ALARM ANTI-TOW**

To activate the system while the vehicle is travelling on a car-carrier, a car-train, or a ferry, you must exclude the anti-tow sensor by sending the SMS:

COM NOSTAZ (one space between the words)

RESTORE ANTI-TOW SENSOR

To reactivate the internal anti-tow sensor, send the SMS:

COM STAZ (one space between the words)

SETTING RADIUS FOR ANTI-TOW SENSOR

To increase the radius of the anti-tow sensor, send the SMS:

COM STAZ XXXX (one space between the words)

XXXX = the distance in meters from **0001** (1 meter) to **9999** (9999 meters).

The standard set-up is **XXXX = 0500**, corresponding to **500 meters**.

WARNING:

- It does not manage settings less than 100 metres.
- The setting is always rounded off to a 100 metres even if intermediate values are entered.
- We do not recommend setting a radius of less than 500 m as under special conditions the GPS could be subject to a significant error in reading (under roofs, near high buildings, etc.).

SETTING THE GPS AWAKENING INTERVAL TO CHECK THE POSITION

It is also possible to set every how many minutes (with the ignition key off) the GPS activates to check that the vehicle is still in the same position. Send an SMS:

COM GPS XXXX (one space between the words)

XXXX = Time in minutes from 0001 (1 minute) to 9999 (9.999 minutes).

The standard setting **XXXX = 0060** corresponds to 1 check every 60 minutes.

WARNING:

- Do not set value **0.0** to be used only for testing.
- Do not set times that are too short to avoid excessive power consumption.
- The position will be accurate only if the GPS antenna "sees" the sky directly.

SET-UP AUTOMATIC SYSTEM CHECK

To enable the SMS to receive messages about the regular operation of the system (survival) on the main user telephone, send the SMS:

COM VERIFICA XXXXX (one space between the words)

Where **XXXXX** = Indicates the period for sending the SMS in minutes.

From **00001** (= 1 minute) to **01440** (= 1 day) up to a maximum of **99999** (almost 70 days).

We recommend **XXXXX = 10080**, which corresponds to **7 days**.

WARNING:

- This setting is disabled in the factory settings.
- The vehicle must be in a place with "phone coverage"; it is possible that an SMS is not sent if, for instance, it is in an underground car park.

ELIMINATION OF AUTOMATIC SYSTEM CHECK

To eliminate the automatic message of the system operation, send the SMS:

COM VERIFICA OFF (one space between the words)

SETTING THE FORCED GEO FENCE

When you want a vehicle to remain within a specific area verified by GPS, you must go to the centre of this area and then send the SMS:

COM GEOF ON (one space between the words)

This will be the centre point of the limited area. If the vehicle exits this area, the “**ALARM ZONE LEAVING**” alarm is sent. If you cannot position the vehicle at the centre of the forced geo fence, you can send an SMS with the coordinates of the centre point (using, for example, GPS or a map on a PC):

COM GEOF ON LAT GGPPSSS,N LONG GGGPPSSS,E

WARNING:

- Enter a space between the words.
- Enter **COM GEOF ON** followed by the latitude:
LAT in (degrees)(degrees)(minutes)(minutes)(seconds)(seconds), **N** = northern hemisphere.
And the longitude:

LONG in (degrees)(degrees)(minutes)(minutes)(seconds)(seconds), **E** = East

- Example: **COM GEOF ON LAT 444417,N LONG 01039381,E**

Then send the relative radius of the forced geo fence:

SET-UP OF THE FORCED GEO FENCE

To change the size of the radius of the anti-tow sensor, send the SMS:

COM GEOF XXX,X (one space between the words)

XXX,X = the distance in km from 000.1 (0.1 km = 100 m) to 999.9 (999.9 km).

WARNING:

- We do not recommend setting a radius of less than **0.5 km** as under special conditions the GPS may be subject to a significant reading error (under roofs, near high buildings, etc.).
- To change the centre of the Forced Geo fence, repeat the procedure and send the new coordinates.
- MS10 will validate the last position and the last radius sent using the main user telephone.

DELETE THE FORCED GEO FENCE

To delete the control for the forced area, send the SMS:

COM GEOF OFF (one space between the words)

PERMANENT INPUT EXCLUSION

Only use if the system malfunctions, while waiting for repair by the installer, or for special applications. The exclusion of the inputs is understood to be a "no alarm sent" and therefore each change to the input is only recorded in the system log.

WARNING: Exclusion of the inputs can drastically reduce the performance and the operations of the system. Restore system operation as quickly as possible.

Send the **SMS:** (one space between the words)

OFF IN2 To deactivate **input 2** (central alarm input)

Or: **OFF IN4** To deactivate **input 4** (emergency button input)

The MS10 will respond with the SMS: "Input IN 2 disabled" or: "Input IN 4 disabled"

INPUT RESET

To reset inputs or outputs previously excluded and restore them to normal use.

Send the **SMS:** (one space between the words)

ON IN2 To reset **input 2** (central alarm input)

Or: **ON IN4** To reset **input 4** (emergency button input)

The MS10 will respond with the SMS: "Input IN 2 enabled" or: "Input IN 4 enabled"

LIMITED ACCESS

By sending the following message from the registered telephone, you can stop the registered secondary users from sending commands or localizing the vehicle.

They will receive copies of the alarms in any case:

ACC OFF (with a space between the words)

The MS10 will answer with the following **SMS**: "UPDATEDACCESS: RESERVEDACCESS".

- To display the type of access set-up, send the SMS:

ACC (no spaces)

The MS10 will communicate the type of access set-up to the main user telephone number: "FREE ACCESS" or "RESERVEDACCESS".

With **ACC OFF**, if the other mobile phones attempt to send a command for which they are not enabled, they will receive the message: "USER NOT ENABLED FOR THIS COMMAND".

- To revoke the command, or to register a new main user telephone, send the SMS:

ACC ON (with a space between the words)

The MS10 will respond with the SMS: "UPDATEDACCESS: FREE ACCESS".

The **C.S.** if present, can always contact the peripheral.

LIMITED ACCESS - PASSWORD

Two different levels of access can be created:

- 1) **With PASSWORD** to send remote controls by SMS (even from phone numbers that are not registered) or to register a new main user.
- 2) **Without PASSWORD** only for locating the vehicle.

The use of the **PASSWORD** (to preface any command sent by SMS) allows you to resolve situations such as the loss or theft of the mobile phone.

- To set it, send the SMS:

PASS <password> <password> (do not enter the "<>" parenthesis, type a space between the words)

WARNING:

- The **same password** must be typed **twice** as shown.
- **The password must have at least 4 numbers and may not exceed 10.**
- The password must be used before any commands sent: <password> XXX XXX

The MS10 will reply to the registered mobile phone with the password entered, by **SMS**:

"UPDATED PASSWORD: CURRENT PASSWORD: password"

"PASSWORD ERROR" indicates that you have attempted to enter an invalid password.

- To display the password set, from the main user telephone, send the **SMS**:

PASS (no spaces)

The MS10 will communicate the password entered:

"CURRENT PASSWORD: password" or "ATTENTION NO PASSWORD".

DELETE PASSWORD

- To delete the set password, from the registered telephone send:

<Password> PASS OFF (do not enter the "<>" parenthesis, type a space between the words)

The MS10 will answer with the SMS: "ATTENTION NO PASSWORD".

CONDITIONS OF GUARANTEE

The TECHNICAL GUARANTEE has period of 24 months starting from the date of installation, ex-works, for the parts considered defective according to indisputable discretion of Landi Renzo S.p.A. All external work and any other fees for any other reason are EXCLUDED from coverage. The GUARANTEE, accompanied by the **CERTIFICATE OF GUARANTEE**, is automatically void if there are damages due to improper installation, tampering, improper use of the system or parts thereof, combination with devices NOT indicated, or for leakage of liquids.

ENERGY SAVINGS

To save energy, the peripheral automatically activates, when the vehicle is off, various levels of energy savings. The standard settings call for a minimum level of absorption by the **MS10** so that it is always able to reply to queries (telephone), constantly monitor its inputs, process, and transmit any alarm situations.

MAINTENANCE

The **MS10** peripheral does not require any maintenance.

Warning: We recommend periodically checking the correct operation of the system.

APPROVALS

The **MS10 TTA** satellite protection system is approved according the **ECE Regulation R10**, including the tests for immunity to disturbances and electromagnetic compatibility and is also recognized by countries outside the EEC such as, for example, Russia, Japan, etc., with numbers: n. **E24** **10R-030547**

WARNING:

The **MS10** satellite protection system is set-up and fine tuned according to the technical data indicated in the Technical File of the product, summarized in the Declaration of Compliance and the Instructions for Operation and Installation.

Tampering with the product, altering the aforementioned characteristics such as modifying the operation and performing connections other than those indicated in the Installation Instructions in the manual can modify the conditions to which the product is considered approved, with consequential danger for later sale of the product.

DECLARATION OF CONFORMITY



Standard of reference ISO/IEC Guide 22 and EN 45014

Number of conformity: 005-2012/E

Name of the manufacturer: **A.E.B. S.p.A, antitheft division**
 Address: via dell'Industria, 20
 Corte Tegge
 42025 Cavriago (RE) Italy

HEREBY STATES THAT THE ELECTRONIC UNIT

Product: Satellite tracking **MEDSKY MS10 CAN**

Control unit
MEDSKY MS10 CAN
MEDSKY MS10.1 CAN
MEDSKY MS10 TT
MEDSKY MS10.1 TT
MEDSKY MS10 TT XXX
MEDSKY MS10.1 TT XXX
MEDSKY MS10 TT A
MEDSKY MS10.1 TT A
MEDSKY MS10 TT A XXX
MEDSKY MS10.1 TT A XXX
MED-CALL

WAS TESTED IN ACCORDANCE WITH THE FOLLOWING PRODUCT STANDARDS OR OTHER PRODUCT SPECIFICATIONS IN ORDER TO BE IN COMPLIANCE TO THE ESSENTIAL REQUIREMENTS OF THE DIRECTIVE 1999/5/CE (R&TTE):

Requirements	Standards applied
Human exposure to electromagnetic fields (art. 3.1a):	EN 62479:2010
Safety (art. 3.1a):	EN60950
EMC (art. 3.1b):	Regolamento ECE R10-03
Radio spectrum (art. 3.2)	EN 301 511 (03-2003)

THE PRODUCT IS MARKED WITH CE MARK AND NOTIFIED NUMBER ACCORDING TO THE DIRECTIVE 1999/5/CE

CE 0678

Place of issue: **Cavriago (RE) Italy**

Date of issue: **2012/05/04**

CEO of **A.E.B. S.p.A.**
 Fiaccadori Antonia

(Signature)

SUMMARY OF COMMANDS USEABLE BY SMS

COMMANDS RESERVED FOR THE MAIN USER - ALWAYS AVAILABLE

SMS

Cancel the MAIN telephone registered:	REG OFF
Register secondary user telephone numbers:	RON <+YYxxxxxxxxxxx>
Display the telephone numbers of the secondary users:	RON
Delete all of the secondary users:	ROFF
Delete one specific secondary user:	ROFF <+YYxxxxxxxxxxx>
System OUT OF SERVICE:	COM FS
IN SERVICE enable alarm messages:i:	COM IS
Exclude "OUT OF SERVICE reminder" SMS:	COM FS OFF
Restore "OUT OF SERVICE reminder" SMS:	COM FS ON
Change the total kilometres travelled by the vehicle:	KMT xxxxxxxx
Change the trip odometer:	KMP xxxxxxxx
Zero the trip odometer:	KMP RESET
Set the maximum speed:	VEL <maximum speed>
Display the maximum speed set:	VEL
Delete the maximum speed set:	VEL OFF
Automatic SMS indicating the position on the MAP of the vehicle in alarm mode:	ALR POSM / ALR POSG
Automatically send the vehicle in alarm POSITION by SMS:	ALR POS
Delete the automatic send of the vehicle in alarm position:	ALR OFF
Disabling an alarm warning call:	COM RING OFF
Re-enabling an alarm warning call:	COM RING ON
Exclude antenna and GPS CHECK:	COM GPS OFF
Restore antenna and GPS CHECK:	COM GPS ON
Set-up AUTOMATIC system CHECK (in minutes):	COM VERIFICA XXXXX
Exclude AUTOMATIC system CHECK:	COM VERIFICA OFF
Set forced geo fence (vehicle at the centre):	COM GEOF ON
Set forced geo fence (using geographic Coordinates):	COM GEOF ON LAT GGPPSSS,N LONG GGGPPSSS,E
Modify radius of forced geo fence (in km):	COM GEOF XXX,X
Exclude the forced geo fence:	COM GEOF OFF
Permanently exclude Input x (x= 2 or 4):	OFF IN2 / OFF IN4
Reactivate Input x (x = 2 or 4):	ON IN2 / ON IN4
Limit the access of other telephones:	ACC OFF
Display the type of access set (mobile telephone):	ACC
Allow other telephones access:	ACC ON
Enter password:	PASS <password> <password>
Display the password set:	PASS
Delete the password set:	<password> PASS OFF

COMMANDS AVAILABLE FOR ALL USERS

(If the Main User has not blocked access for other users by sending the **ACC OFF** command)

SMS

Registration of MAIN telephone number (mobile phone):	REG ON
Display the MAIN telephone number (mobile phone):	REG
Request the map with the vehicle on your "SMARTPHONE" by SMS:	POSM / POSG
Request vehicle POSITION by SMS:	POS
Request vehicle position (recalculation):	GPS NEW
COM (query the status of the system):	COM
SMS to check the last alarms sent (mobile phone):	A
System RESET:	RESET
Exclude the internal MOTION sensor:	COM MOV OFF
Restore the internal MOTION sensor:	COM MOV ON
Modify the sensitivity of the MOTION sensor (X = from 1 to 9):	COM MOV X
Exclude the internal ANTI-TOW sensor (movement):	COM NOSTAZ
Restore internal ANTI-TOW sensor (movement):	COM STAZ
Modify the radius of action of the ANTI-TOW sensor (in meters):	COM STAZ XXXX
Setting the GPS awakening interval to check the position:	COM GPS XXXX

TECHNICAL DATA

MedSky MS10 TT A GR

Power Supply:	: 12 o 24 Vcc nominal (8 / 32 Volt)
Current Absorption	: 250 mA in transmission, depends on the GSM network : < 5 mA in STAND-BY
Digital Inputs	: 2 , all active in STAND-BY
No. of Points in Memory	: 16.000 (indicative)
Serial interface	: 1 USB
Motion Sensor	: Integrated
Temperature range	: From - 40° C to + 85° C
Position	: In the passenger compartment, protected from liquid leaks and condensation.
Protection	: IP 42 (IEC 529 1989) - DIN 40050 - EN 60529
Dimensions	: 98 x 71 x 30 mm
Weight	: 175 g
Internal Battery	: 300 mA NI-MH
GPS Receiver	: 20 channels SiRF star III
GSM Receiver	: Amplified
GSM telephone module	: QUAD-BAND / GPRS 2W 850 / 900 1W 1800 / 1900
GPRS	: Class 12
SIM-CARD	: 1,8 / 3 Volt (not compatible with 5V SIM-CARDS, the old type)

CERTIFICATE OF GUARANTEE

Thendersigned: _____

Installed CERTIFIES that the fitting of the DEVICE described below was carried out by him PERSONALLY, in accordance with the instructions of the manufacturer.

Description of the VEHICLE:

TRADEMARK: _____ TYPE: _____

REGISTRAZION NUMBER: _____

Description of the SYSTEM

Type **MedSky MS10 TT A GR** Registration

Installed at: _____ On: _____

Full address of installer:

SIGNATURE:

STAMP

GENERAL WARNINGS FOR THE USER:

- INSTALLATION must be conducted by QUALIFIED PERSONNEL and according to the instructions.
- The INSTALLED MUST provide the OWNER of the vehicle with the present CERTIFICATE OF GUARANTEE, completed in full and signed.

Landi Renzo S.p.A. declines all responsibility and suspends the GUARANTEE if the product or parts thereof are used unsuitably, are tampered with, or if they are connected with devices not listed.

Landi Renzo S.p.A. reserves the right to bring any kind of improvements without previous notice.

PRESERVE INSIDE THE VEHICLE

PLEASE WRITE IN BLOCK LETTERS

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med è un marchio **LANDI RENZO S.p.A.**

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