



Operating instructions
Life-Tel II
as a personal protection
Lone Worker
and emergency call system
Ver. 5.xx
01.11.2013



Operating instructions Life-Tel II

Introduction

Dear Customer,

thank you for making the decision on purchasing this emergency signal device Life-Tel II. It is a further quality product from our assortment of high-class GSM alarm and emergency call systems.

In case of technical questions please contact:

e-mail: info@mobi-click.com

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1. Basics regarding mode of operation and features

Life-Tel II is an emergency call device with intercommunication (PNG-S) equipped with many alarm functions.

For transfer of alarm messages and for intercommunication it makes use of the existing mobile phone network by means of a customary SIM card. This way contrary to stationary systems it can be used both place bound and at a big distance to the receiver.

Thanks to transfer of GPS co-ordinates in case of an alarm it is possible to find the location of the user of Life-Tel II, so that somebody can direct help resp. rescue forces to a specified place.

It is suitable especially for:

- ☐ people exposed to occupational danger
- ☐ people working in single-user workstations
- ☐ ill, handicapped or weak people
- ☐ seniors
- sportspeople
- ☐ people exposed to recreational danger

By means of Life-Tel II the user can set off the alarm both deliberate (active) and unintended (passive).

For the active alarm setting off the user presses the emergency call button 1 (SOS). Depending on the programming established before immediately after that an alarm message via SMS and/or via phone call arrives to up to three telephone numbers saved beforehand.

In the case of the passive alarm setting off Life-Tel II monitors the movement, position and activity of the user by means of default factory settings.

If there happens a case like e.g. motionlessness or change in position of more than 45°, an alarm message via SMS and/or via phone call will be also sent to up to three telephone numbers saved beforehand.

For the passive alarm setting off the device must be operated in security (alarm) mode. This mode can be activated either directly in the device or remotely via SMS. Furthermore Life-Tel II is equipped with own technical monitoring.

In the case of a technical deficit Life-Tel II sends an SMS message to the recipient.

For this reason and also because of transfer of GPS co-ordinates in case of an alarm

at least one recipient must be a receiving unit suitable for SMS (e.g. a mobile phone) among three telephone numbers and the transfer of telephone numbers of its SIM card must be on for sender identification by all means.

Further information regarding motion alarm and position alarm as well as regarding further kinds of alarm can be found in the chapter 5.3., 5.3.1, 5.3.2, 5.3.3, 5.3.4 and 5.3.5.

2. Short operating instructions (Quick guide)

In order to put your all-round emergency call system into operation as soon as possible we have attached a short operating instructions for you (follows next).

We recommend you to read the following operating instructions carefully regardless.

If there arise any questions afterwards, please turn to our client service under info@mobi-click.com.

3. Initial start-up of the device

3.1 SIM card

At first you need an active SIM card of a GSM (mobile phone) network provider. It hasn't been included in the delivery, in order to enable each user choosing his/her favourite network provider.

Life-Tel II has a dual band GSM module. Therefore almost all European SIM cards can be used. In this case it doesn't matter, whether you use a SIM card with a subscription or a prepaid SIM card.

In case of a prepaid SIM card however we recommend caution, because there must be always sufficient high free assets on it. Besides the time-wise validity of assets must be ensured. Furthermore no alarm messages can be generated. It is necessary that the person responsible for the technical maintenance of the device checks the assets volume constantly and loads the assets up if necessary.

Therefore we recommend you to sign a mobile phone agreement for reasons of safety.

3.2 Preparing of the SIM card

If you have purchased a prepaid card, please don't forget to activate it. Depending on the network provider a phone call must be made by means of a customary mobile phone and a confirmation (e.g. language selection) at first.

For this reason it is necessary to perform a test phone call from a normal mobile phone before the beginning of operation of Life-Tel II!

Before a SIM card has been inserted into Life-Tel II, please take notice of the below chapters (especially chapter 3.4.).

3.3 Transfer of telephone numbers

Regardless of whether you use a prepaid card or a card with a subscription, please take notice to send the telephone number in the alarm message!

Life-Tel II fulfils its purpose only, if the user can be identified on the basis of his/her telephone number.

If the telephone number hasn't been sent, the suppression should be removed (also by the normal mobile phone). If it doesn't work, please turn to your network provider for the purpose of the transfer (revealing in the message) of the mobile phone number.

3.4 Changing of the PIN number of the SIM card before the initial start-up

Please insert the SIM card, which you are going to use later in Life-Tel II, in the customary mobile phone.

Please change the existing PIN in **1513**.

If you don't know the function for changing of the PIN, please refer to manual (instruction) corresponding to the mobile phone.

You need this factory-adjusted PIN 1513, so that Life-Tel II accepts your SIM card.

If you insert your card with another PIN there, the SIM card will be suspended after the third switching on at the latest!

In the case of a suspension you need the PUK number delivered with the SIM card for releasing. Please perform releasing by use of a customary mobile phone again.

3.5 Inserting of the SIM card

In order to insert the SIM card the lid at the back must be opened at first. Please proceed cautiously while you apply a delicate pressure onto the lid at the back of the locking lid by means of your finger nail and later you remove it from the enclosure. Keep the device this way that the rounded, deepened edge is located at the top and the charging socket on the left side. You can see the SIM card holder now, where words „OPEN“ (open) and „LOCK“ (closed) and an arrow for a certain direction have been placed.

If it hasn't been delivered open by the factory already, please push by a delicate pressure the black SIM card holder to the right (OPEN), so that you can lift it up afterwards.

Please slide the SIM card in the guide way of the SIM card holder. Thereby the gold-coloured contacts must be directed to the board and the canted edge to the left. During flipping it shut you should pay attention that there shouldn't appear any bigger, palpable resistance.

Please slide the SIM card holder to the left in order to lock (LOCK).

Attention!

In order that you can switch the device on, a SIM card close fitting to the board is necessary. Life-Tel II is out of order without a card inserted in a right way.

3.6 Charging and switching on

In order to switch the device on, it must be charged after insertion of the SIM card. For this purpose you can use the included power supply or charging station.

Therefore the charging socket (mini USB) at the side must be connected with the plug of the power supply or the charging station.

During the charging process the LED 2 (S. 42) is permanent on in red.

After finishing of the charging process (full charging) the LED 2 is permanent on in green. Complete the charging process by removing of the charging cable resp. by removing of Life-Tel II from the station.

You can switch Life-Tel II on by use of the black button ON/OFF (S. 42).

Please press it approx. 3 seconds until a beep is sounded.

Afterwards the device is searching for a mobile phone network. Usually it lasts about 10 - 20 seconds. However it can last longer, when the reception is low.

If everything is all right and the device has network reception, it will be signalled by the regular blinking of the LED 1 (approx. every 5 seconds).

In the case of an unregistered or damaged SIM card the LED 1 is permanent on in green. In this case please check the card in another mobile phone and use other one if necessary.

In the case, when you use a false PIN, the LED 1 is permanent on in green/orange and Life-Tel II sounds a triple double tone at intervals.

In this case please insert the card in the ordinary mobile phone again and change the PIN number there.

3.7 Additional changing of the PIN number (internal and external)

In order to minimise the danger of malpractice by third parties, you can change the PIN number after the initial start-up. It can happen also later on.

Life-Tel II must be on and have a network reception, in order to change the PIN number. It is signalled by the green status LED 1 slowly blinking. If it doesn't happen this way, please refer to the chapter 5.2, 5.3.1, 5.3.2, 5.3.3, 5.3.4, 5.4 and 5.6.1.

Please send from your regular mobile phone to Life-Tel II (it has a telephone number of the inserted SIM card) an SMS with the following text:

Set pin xxxx #1513

In this case XXXX must be numbers and means your new invented PIN code of course.

Please make sure (also for future SMS commands) that there is always a space (blank character) between words and numbers.

Except of between the rhomb and the PIN number.

For a better understanding accurately outlined:

Set(Space)pin(Space)xxxx(Space)#1513

If this SMS has been written in the right way, you will receive a confirmation via SMS on your mobile phone, from which you have written this SMS command, from Life-Tel II.

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Alarm: off

Accu: 100%

GSM: 78%

GPS: off
Area: off
Guard: on 30s
Angle: on, Y 25s
Fall: off 10
Esc: on
Care: on
Lock: off

If the text was incorrect, you will receive an SMS with an error message:

“Command format incorrect”.

Please note that this form of changing of PIN affects not only the SIM card, but also the internal PIN. It means that cards inserted in the future must have the same PIN.

3.8 Mode of operation of buttons

Before we programme the device for the future operation in the next step, below please find the overview of the mode of operation:

Button 1 (red) - Emergency call button for setting off of the deliberate (active) alarm

Button 2 (blue) - Activation and deactivation of the alarm mode (unintended alarm)

Button 3 (green) - Set-up of the intercommunication with the saved telephone number

3.9 Programming / Initial settings

3.9.1 Programming of the emergency call button 1 (deliberate alarm)

You can assign the button 1 to up to three telephone numbers that should be notified in an emergency, namely via SMS and/or via phone call.

In each case it should be chosen at least one SMS message, so that GPS co-ordinates can be transferred.

After all it is possible to choose for notification the same telephone number both via SMS and via phone call.

Each way of notification however demands a memory space.

If you choose a telephone number with both ways of notification, you need two memory spaces. There are three altogether.

For programming of button 1 please send to Life-Tel II an SMS from a normal mobile phone with the following text:

Set(Space)Panic(Space)S(Space)0041781234567(Space)C(Space)0049528765432(Space)S(Space)0049789876532(Space)#1513

In this case you can save 3 different telephone numbers resp. SMS numbers.

If you have done everything right, you will receive a status SMS sent by Life-Tel II.

Here will be specified your new programmed number and the way of notification.

M-LifeTel 5.xx

Panic

SMS 1

0041781234567

Call 2

0049528765432

SMS 3

0049789876532

Otherwise you will receive an error message.

3.9.2 Programming of the emergency call button 2 (unintended alarm)

You can assign the button 2 also to up to three telephone numbers that should be notified in an emergency, namely via SMS and/or via phone call.

Ideally would be also in this case, if both ways of notification have been chosen.

In each case at least one notification via SMS should take place.

On one hand in order to enable the transfer of GPS co-ordinates.

On the other hand, because it is possible to send technical alarms only in this alarm mode.

It is entirely possible to notify the same telephone number both via SMS and via phone call.

Each way of notification demands a memory space.

If you choose a telephone number with both ways of notification, you need two memory spaces. There are three altogether.

For programming of button 2 please send an SMS from a normal mobile phone to Life-Tel II with the following text:

Set(Space)Alarm(Space)C(Space)0049795637889(Space)C(Space)0049528765432(Space)S(Space)0049789876532(Space)#1513

Explanation: C is for phone call

S for SMS

Space = Blank character

0049795637889 = Your telephone number with prefix number Germany

If you have done everything right, you will receive a status SMS sent by Life-Tel II.

Here will be specified your new programmed number and the way of notification.

M-LifeTel 5.xx

Alarm

Call 1

0049795637889

Call 2

0049528765432

SMS 3

0049789876532

Otherwise you will receive an error message.

3.9.3 Programming of the emergency call button 3 (call function)

For programming of the button 3 please send an SMS from a normal mobile phone to Life-Tel II with following text:

Set(Space)Tel(Space)0044781234567(Space)#1513

If you have done everything right, you will receive a status SMS sent by Life-Tel II.

Here will be specified your new programmed number.

M-LifeTel 5.xx

Tel

0044781234567

Otherwise you will receive an error message.

3.9.4 Audio volume control and call signals

Much the same like in all other mobile phones, you can set individual call signals and own volume level also in Life-Tel.

SET (Space) **AUDIO** (Space) **2** (Space) **0** (Space) **3** (Space) **9** (Space) **#1513**

Loudspeaker volume [0-9]

Microphone volume [0-9]

Call signal number [0-9]

Call signal volume [0-9] acoustic signal (Buzzer)

0 = Mystery

1 = German national anthem

2 = Mozart

3 = Strauss

4 = Puccini

5 = Vici

6 = fast/short signal sequence

7 = Life-Tel call signal (standard)

8 = short signal sequence

9 = sustained signal

Hints:

The volume in loudspeaker and microphone should be controlled carefully; it is not advisable to select to high volumes for both of them, the voices during the connection could be sorely afflicted this way and they wouldn't be transferred comprehensible.

General information: "0" is the smallest and "9" is the highest value.

3.9.5 Changing of the device's name (Name)

If many products are going to be operated at the same time, it is recommended to give an individual name to each device. It is possible to assign alarm messages to the right device this way.

In order to perform the changes of name in your device, please send the following SMS command:

SET NAME <new name> # 1513

Example: Change of name of Life-Tel II in „NEWNAME“:

SET NAME NEWNAME # 1513

The confirmation SMS looks in the following way:

NEWNAME 1.xx

.....

...

...

The maximal length of the device's name amounts to 16 characters.

Return to factory settings is possible by use of following command:

RESET NAME # 1513

3.9.6 Setting up of the language (command „Language“)

By use of this command you can set the language of the device:

SET LANGUAGE <DE/EN> #1513

Example:

SET LANGUAGE DE #1513

To return to German following command is necessary:

RESET LANGUAGE #1513

For this command there is no TEST command.

3.9.7 Setting up of the time and the date

Life-Tel II is equipped with an internal watch. In order that alarms work in the right way (especially the time alarm) Life-Tel II must be programmed in the following way:

SET (Space) TIME (Space) 13 (Space) 45 (Space) 16 (Space) 10 (Space) 13 (Space) #1513

Time (13:45) and date (16.10.2013) set up

M-LifeTel 5.xx

Time: 13:45

Status: off

CARE hours: Not defined

CARE interval: 12 min

Idle Alarm: 7 min

Repeat Alarm: 0 min

GPS: 0 min

3.9.8 Query of the device status

You have a possibility to programme the time (only full hours), when you will receive the status SMS. It will provide you with information regarding the battery charge level and GSM reception etc.. The status message will be sent to all numbers that you have programmed.

Daily: Set status interval 13 #1513 Time (00-23)

4. Readiness for use

As soon as you have taken all previous steps, your emergency signal device is configured and ready for use.

In the next chapter you will learn more regarding alarm functions and the way, how you can use Life-Tel II effectively.

5. Life-Tel II during operation

5.1 Fastening on the body

In order to use Life-Tel II in the right way, the position is of vital importance.

Therefore a bag has been included in the delivery, wherein you can carry the device switched on on your upper arm.



This device can be carried alternatively also on under arm. However the change of the position sensor angle is necessary then. More regarding sensors you can find under 5.4 and 5.6.4.

5.2 Deliberate making of the emergency call

In an emergency please press only the red button 1 until it lights up. An acoustic signal and a faster blink sequence follows then and the alarm will be set off due to your settings described in the chapter 3.9 (sent via SMS or there happens a phone call).

After the phone call or SMS message the device sounds an acoustic triple tone alarm and a blink sequence at intervals approx. every 10 seconds. It is helpful during localisation of the person in distress, if he/she can't draw somebody's attention himself/herself any more.

If the keyboard hasn't been locked, it is possible to quit this alarm by switching off of the Life-Tel II.

Otherwise it is possible to end this alarm only from another mobile phone by use of the SMS command:

QUIT ALARM #1513

Please note that much the same like in case of all other commands, there must be a space between words. Between the rhomb and the PIN number however there is no space. Please always mind the correct PIN number. More information on the subject of key lock please find in the chapter 5.7.1.

M-LifeTel 5.xx

Alarm: off

Accu: 100%

GSM: 78%

GPS: off

Area: off

Guard: on 30s

Angle: on,Y 25s

Fall: off 10

Esc: on

Care: on

Lock: off

5.3 Unintended making of the emergency call

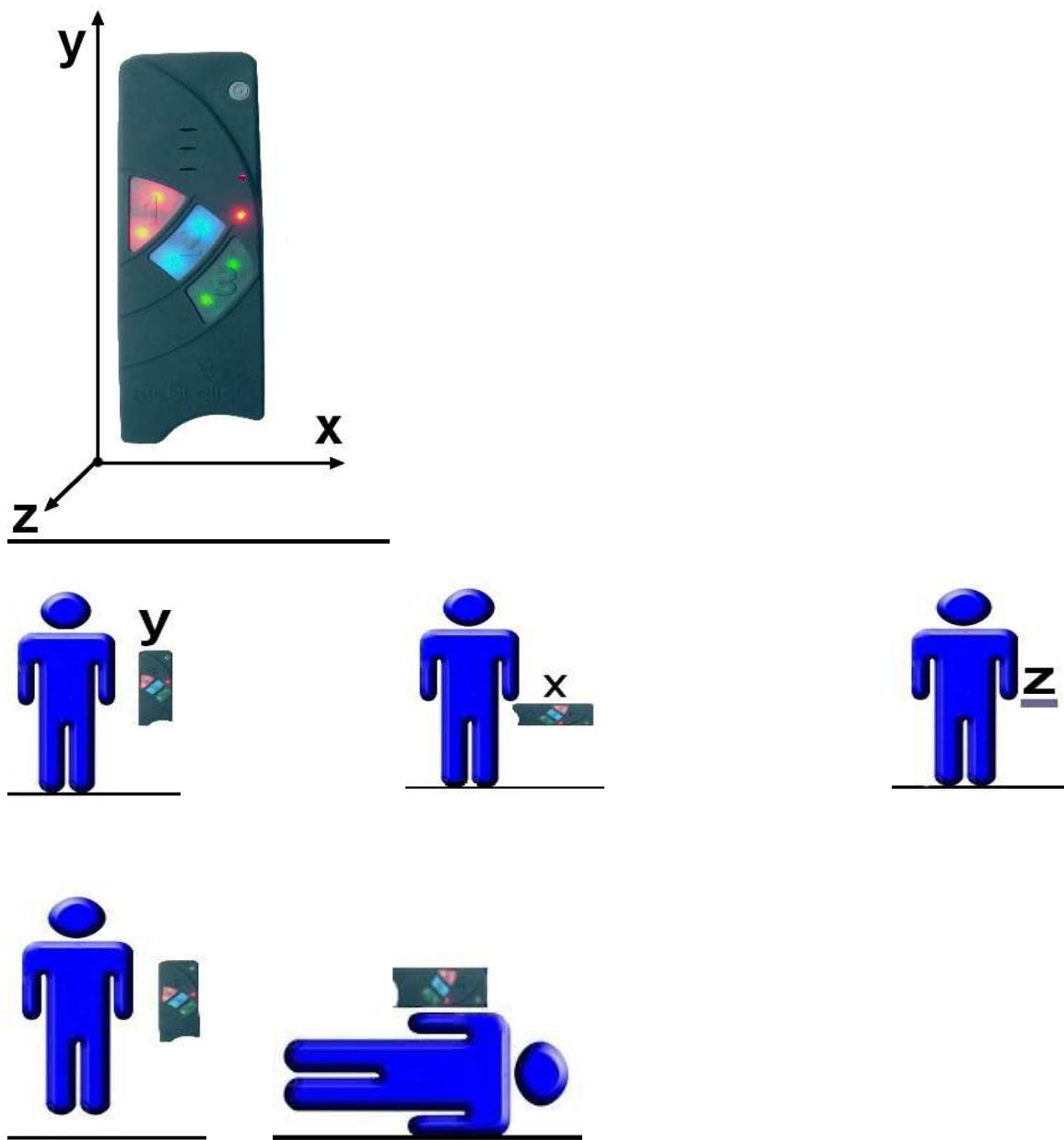
Life-Tel II is equipped with a series of alarm kinds that enable making of an emergency call automatically in case of change of position of the person.

It includes following alarm kinds:

5.3.1 Position alarm

In the case of the position alarm Life-Tel II monitors permanent, whether the set position is adhered to. The device carried on the upper arm is situated in the vertical position. Internally it is referred to as Y. The device has been programmed also in delivery condition this way. During the activation by pressing of the button 2 exactly this position alarm is activated in the vertical position.

Other positions please learn from following pictures:



In the case, when the position of the person resp. of the arm deviates by more than 45° longer than a defined time (in the delivery condition 25 seconds), the pre-alarm will be set off at first.

The pre-alarm is signalled by blinking and beeping of the red button at intervals. This pre-alarm lasts in the delivery condition 15 seconds at the longest. If the situation doesn't pose an emergency, during this time the user has a possibility to place his/her arm in the vertical position again and to quit the alarm this way.

For a renewed setting off of the position alarm however, a deviation from 45° for the time of at least 25 seconds is necessary.

Life-Tel II provides an opportunity to change both the angle and the alarm time.

Further information on this subject you will find in the chapter 6.

If the pre-alarm won't be interrupted, the alarm will be set off due to your settings described in the chapter 3.9 (sent via SMS or there happens a phone call).

After the phone call or SMS message the device sounds an acoustic triple tone alarm and a blink sequence at intervals approx. every 10 seconds. It is helpful during localisation of the person in distress, if he/she can't draw somebody's attention himself/herself any more.

5.3.2 Silent alarm (dead man's handle)

This alarm ensures setting off of the pre-alarm, if the device (so the user) is motionless for the time longer than 30 seconds.

During the time of pre-alarm (15 seconds) the silent alarm can be interrupted by the arm movement again.

Only in case of a repeated motionlessness of more than 30 seconds, the silent alarm will be set off again.

Life-Tel II provides an opportunity to change the duration of motionlessness until the pre-alarm.

Further information on this subject you will find in the chapter 6.

If the pre-alarm won't be interrupted, the alarm will be set off due to your settings described in the chapter 3.9 (sent via SMS or there happens a phone call).

After the phone call or SMS message the device sounds an acoustic triple tone alarm and a blink sequence at intervals approx. every 10 seconds. It is helpful during localisation of the person in distress, if he/she can't draw somebody's attention himself/herself any more.

5.3.3 Time alarm (care function)

During the time alarm there follows a message at intervals (in delivery condition every 12 minutes), while the red, blue and green button of Life-Tel II are blinking and at the same time an acoustic signal is sounded.

This signals to the user that he/she (as far as he/she is doing well and if there hasn't happened any emergency case) should press one of the two blinking buttons.

If it won't happen, the tone will be more aggressive for three intervals of time.

If there still won't follow any press of the button, the alarm will be set off due to your settings described in the chapter 3.9 (sent via SMS or there happens a phone call). After the phone call or SMS message the device sounds an acoustic triple tone alarm and a blink sequence at intervals approx. every 10 seconds. It is helpful during localisation of the person in distress, if he/she can't draw somebody's attention himself/herself any more.

Also in this case Life-Tel II provides an opportunity to change the interval duration. Further information on this subject you will find in the chapter 6.

You have also a possibility to define fixed times instead of the interval. Also this information you will find in the chapter 6.

5.3.4 Escape alarm

When the alarm resp. security mode is on, Life-Tel II monitors additionally, whether there happen no hasty resp. frantic motion sequences.

If it is the case for approx. 10 seconds, the pre-alarm will be set off.

It is signalled by blinking of the red and blue button, as well as a tone.

During this time the user has a possibility to quit the pre-alarm by pressing of one of the two blinking buttons.

If the pre-alarm won't be interrupted, the alarm will be set off due to your settings described in the chapter 3.9.

You will receive an SMS message with the following text:

“ALARM: The escape alarm has been set off”

And particular GPS co-ordinates of the device.

As far as you have performed such settings, you will get also an additional phone call.

After the phone call or SMS message the device sounds an acoustic triple tone alarm and a blink sequence at intervals approx. every 10 seconds. It is helpful during localisation of the person in distress, if he/she can't draw somebody's attention himself/herself any more.

5.3.5 Loss alarm

As soon as Life-Tel II during the alarm resp. security mode has been torn or removed from the supplied bag, few seconds later the pre-alarm will be set off, which you can quit by pressing of the blinking button.

If the pre-alarm won't be interrupted, the alarm will be set off due to your settings described in the chapter 3.9.

You will receive an SMS message with the following text:

“ALARM: The loss alarm has been set off”

And particular GPS co-ordinates of the device.

As far as you have performed such settings, you will get also an additional phone call.

5.3.6 Alarm resp. security mode (button 2)

You can activate the alarm mode either by pressing of the button 2 or by use of an SMS command, which you send to Life-Tel II from another mobile phone.

The command for activation via SMS sounds:

SET SECURITY #1513

As long as the alarm mode is active, the blue button blinks approx. every 5 seconds at intervals.

M-LifeTel 5.xx

Alarm: off

Accu: 100%

GSM: 78%

GPS: off

Area: off

Guard: on 30s

Angle: on,Y 25s

Fall: off 10

Esc: on

Care: on

Lock: off

To quit the alarm mode, please press the button 2 again (fast double blinking of the blue button will follow) and the mode has been quitted.

If you wish to quit the alarm mode via SMS, please send:

RESET SECURITY #1513

As it can absolutely happen that somebody will just miss the button 2 by accident (especially during activities, which are close to body), we recommend you to prefer the SMS mode and to care for the user by means of an emergency call centre resp. operations centre. In case of the private use accordingly e.g. by a family member or caretaker. It is reasonable to lock the keyboard via SMS by the particular station / person that is looking after the user, in order to avoid switching off by accident.

Concerning this matter please refer to the important chapter 5.7.

Attention!

During the user carries Life-Tel II, potential emergency calls and alarms must be always received by an experienced person or station that will take fast and adequate supporting measures!

If the whereabouts isn't well-known exactly beforehand, the possibility of GPS location is indispensable!

5.3.7 Call function (button 3)

Making a phone call:

By pressing of the button 3 you can always call each saved telephone number, which you have programmed due to chapter 3.9.3.

Quitting a phone call:

For finishing of the conversation please press the button 3 again.

Answering a phone call:

If you get a phone call the green button 3 lights up and you start the conversation by pressing of the button 3.

5.4 Tumble alarm (fall sensor)

As an alternative to the escape alarm you have a possibility to activate a tumble alarm. However please mind that the simultaneous operation of both kinds of alarm is impossible.

The activation of the tumble alarm is reasonable only, if the escape alarm has only quite a subordinate meaning for you and the tumble alarm is accordingly considerably more important.

In case of the tumble alarm a tumble-like fall of the Life-Tel II and this way of the user is registered by the sensor.

Afterwards the pre-alarm with an acoustic signal and an simultaneous blinking sequence of buttons is reported. During the pre-alarm you can quit it again, if it isn't an emergency case by pressing of the button(s), which is/are on.

If the pre-alarm won't be quitted, you will receive from Life-Tel II message(es) due to your settings described in the chapter 3.9.

You can activate the tumble alarm by use of the following SMS command, which you send to Life-Tel II from another mobile phone:

SET FALL 10 #1513

In this case the 10 stands for the recommended sensitivity of the sensor.

However you can set the sensitivity at the level from 1 to 20.

You can switch the tumble alarm off by use of the command:

RESET FALL #1513

The query of the sensitivity takes place by use of the SMS command:

TEST FALL #1513

M-LifeTel 5.xx

Alarm: off

Accu: 100%

GSM: 78%

GPS: off

Area: off

Guard: on 30s

Angle: on,Y 25s

Fall: off 10

Esc: on

Care: on

Lock: off

5.5 GPS zones alarm

Life-Tel II can be used for zones monitoring. As soon as the approved zones have been programmed (max. 10) and the alarm mode ("ENABLE") has been activated, an SMS alarm message with current GPS co-ordinates will be sent to all saved telephone numbers in the case of every action of crossing of the approved zone(s).



5.5.1 Programming of zones

For programming of zones serves the SMS command:

**SET GPSZONE <Latitude1> <Longitude1> <Latitude2>
<Longitude2> #1513**

Latitude1 = upper border (direction North)

Latitude2 = bottom border (direction South)

Longitude1 = left border (direction West)

Longitude2 = right border (direction East)

Data input format:

Latitude – gg.mmmmmmmN gg – degree, mmmmmmm

e.g.: 53.551126N 53.54906N

Longitude – ggg.mmmmmmmE ggg – degree, mmmmmmm

e.g.: 009.989147E 009.993728E

Please make sure that the missing numbers are filled with "0".

Example: e.g. 3° 3.23'E = 003.032300E

Example:

If you wish to monitor a certain zone, please enter the data like it has been shown up in the following example:

**SET GPSZONE 49.548909N 011.925659E 49.54249N 011.952481E
#1513**

As feedback you will receive:

GPS Zone: 1/1 <---- Number of the zone

Latitude:

53.551126N 53.54906N

Longitude:

009.989147E 009.993728E

Please note that a new zone will be added, every time when the command "SET GPSZONE" has been used.

M-LifeTel 5.xx

Monitoring: off

GPS Zone:1/0

Latitude:

53.551126N 53.54906N

Longitude:

009.989147E 009.993728E

If the memory limit has been reached, you will receive an error message.

5.5.2 Cancelling of programmed zones

For cancelling of every single zone serves the following command:

RESET GPSZONE <zone number> #1513

5.5.3 Testing of the programmed zone

For testing of the programmed zone in the certain location, please use the SMS command:

TEST GPSZONE <zone number> #1513

zone number = values from 1 to 10

Example:

TEST GPSZONE 3 #1513

Response SMS:

M-LifeTel 5.xx

GPS Zone: 1/1

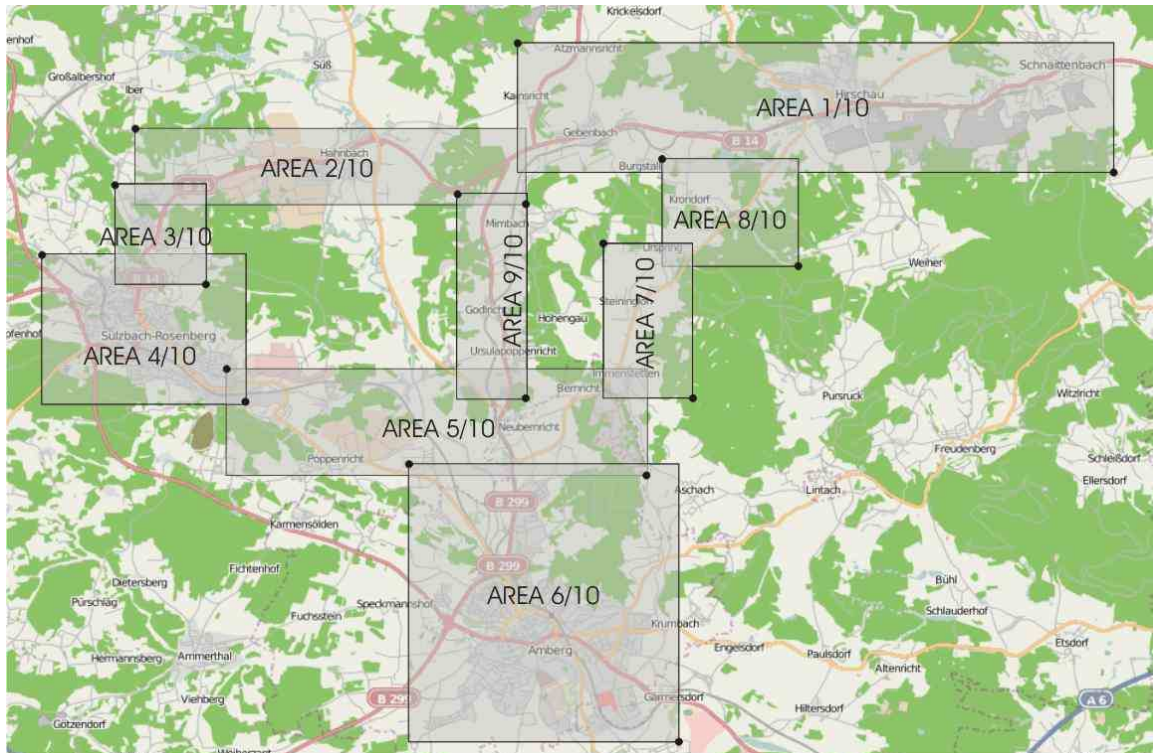
Latitude:

53.551126N 53.54906N

Longitude:

009.989147E 009.993728E

You can connect many zones to one corridor. The borders of zones run along the specified longitudes and latitudes. Diagonal zones can't be specified. The zones must overlap in each other, as far as they belong to one corridor.



5.6 Technical alarms

There are four kinds of alarm for monitoring of the technical operative readiness of Life-Tel II. These alarms work only if the device is under operation in alarm (security) mode.

5.6.1 Battery alarm

Already in case of approx. 33% remaining battery capacity, Life-Tel II signifies to the user that it is about time to charge the battery again by means of optic (red blinking LED 2) and acoustic signal in the device.

If in the case of approx. 21% of battery capacity there still won't happen any charging process, Life-Tel II sends to all saved SMS telephone numbers a battery alarm message with the following text:

Technical alarm (1): Battery will be low soon (X % battery capacity)

The sign X stands for the remaining battery capacity.

5.6.2 GSM reception alarm

If the network reception sinks into critical value, Life-Tel II sends to all saved SMS telephone numbers a GSM alarm message with the following text:

Technical alarm (2): GSM network reception is too poor (reception of X%)

The sign X stands for reception capacity.

In such cases it is reasonable to speak with the user of Life-Tel II and ask him/her to proceed to an area with a better reception again.

Please note: In such a case, when the reception is too poor, the transfer of the emergency call signal isn't possible any more and the monitoring of the user can't be ensured any more this way!

5.6.3 GPS reception alarm

If the GPS reception sinks into critical value, Life-Tel II sends to all saved SMS telephone numbers a GPS alarm message with the following text:

Technical alarm (3): GPS signal is too poor (Sat: X)

The sign X stands for the quantity of found satellites.

Please note: In such a case, when too little or no satellites have been found, determining of location is impossible due to lack of co-ordinates.

The best GPS reception is in the open. In buildings rather near the window.

5.6.4 Sensor alarm

In such a case, when there appears defect of the sensor, Life-Tel II sends to all saved SMS telephone numbers a sensor alarm message with the following text:

Technical alarm (4): Sensor defect / inoperative

In the case of a sensor alarm the monitoring of the user can't be performed any more. In this case please observe possible rules e.g. for single-user workstations. For such a case please consider, whether it wouldn't be reasonable to have one replacement device available.

5.7 External care / Emergency call centre

Multiplex possibilities of configuration of Life-Tel II via SMS, switching the alarm mode on or off, as well as performing of status queries are very helpful for the external care.

During the operational use a competent station or person must supervise the use of Life-Tel II.

It includes among other things the periodic review of the operative readiness, ensuring of battery charging and reception of alarm messages, as well as fast and appropriate reaction to them.

5.7.1 Key lock

An important point is locking of the blue button 2 and the on-off switch against accidental switching off.

As soon as the Life-Tel, switched on and placed in the bag, has been handed over to the user, it is reasonable to lock the above mentioned buttons by the care providing person or station.

For this purpose please use the following SMS command:

SET LOCK #1513

The blue button and the ON/OFF button are locked now. However the user can still use button 1 (SOS button) and button 3 (making a phone call). Also during the key lock you can switch the alarm (security) mode on and off and perform status queries via SMS.

In order to deactivate the key lock again, please send this SMS command:

RESET LOCK #1513

6. Alarm settings and adjustments

In case of kinds of alarm you have a possibility to perform adjustments resp. activate or deactivate single alarms.

If you use this device commercially, we recommend you to do it in co-ordination with the safety officer resp. to observe current regulations.

6.1 Position alarm settings

SMS commands for position alarm:

6.1.1 Switching on position alarm (in the factory-adjusted condition it is on already):

SET ANGLE #1513

6.1.2 Switching off position alarm

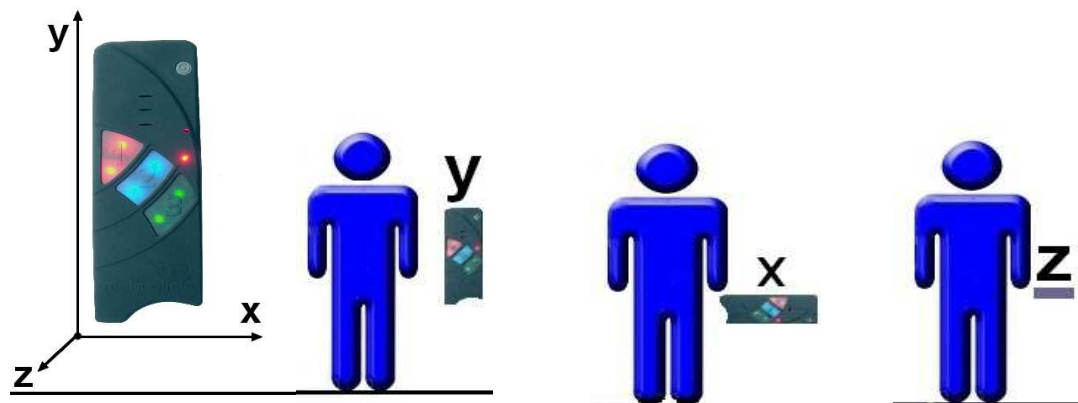
RESET ANGLE #1513

6.1.3 Determination of the normal position

In delivery condition the vertical position has been pre-set. It is referred to as Y.

Life-Tel II allows also two further positions as a normal position.

Below please find the overview:



For a better understanding: In the position Z the device is situated flat at the horizontal level with the keyboard to the top.

SMS command for determination of the normal position:

SET ANGLE <position> #1513

In this case the sign <position> should be replaced by the current location parameter.

Example: **SET ANGLE Z #1513**

6.1.4 Setting the alarm time of the position alarm

You can set also the duration of the angle change until the pre-alarm. In the factory-adjusted condition it is 25 seconds.

You can set the time by use of the following SMS command, where you specify also the normal position:

SET ANGLE <Position> <Time> #1513

Example for 60 seconds in the vertical position:

SET ANGLE Y 60 #1513

The time can be set from 2 to 90 seconds.

6.2 Silent alarm settings

SMS commands for the silent alarm:

6.2.1 Switching on silent alarm (in the factory-adjusted condition it is on already):

SET GUARD #1513

6.2.2 Switching off silent alarm

RESET GUARD #1513

6.2.3 Setting of the alarm time

You can define the time of the missing movement until the pre-alarm by use of the following SMS command:

SET GUARD <Time> #1513

In this case the sign <Time> should be replaced by the time designation in seconds.

Example for 60 seconds:

SET GUARD 60 #1513

6.3 Time alarm settings

In the case of the time alarm there are two possibilities to demand a confirmation from the user that he/she is doing well. Either at intervals or at a fixed time.

Due to factory-adjusted pre-settings the time alarm is activated at intervals, which demands a confirmation by pressing of a button every 12 minutes.

6.3.1 Switching on the time alarm interval

SET CARE INTERVAL <Time> #1513

For the parameter <Time> please enter the time in minutes.

Example for every 30 minutes:

SET CARE INTERVAL 30 #1513

6.3.2 Switching off the time alarm interval

RESET CARE #1513

6.3.3 Switching on the time alarm with defined time intervals

SET CARE HOUR <Time1> <Time2> <Time3> #1513

For the parameter <TimeX> please enter fixed time by use of two numbers.

Up to 8 fixed times (full hours) can be programmed.

Example for 9 o'clock, 11 o'clock and 13 o'clock:

SET CARE HOUR 09 11 13 #1513

M-LifeTel 5.xx

Time: 07:22

Protect time: 09 11 13

Protect time interval: 12 min

6.3.4 Switching off the time alarm (defined time intervals)

RESET CARE #1513

6.4 Escape alarm settings

SMS commands for escape alarm:

6.4.1 Switching on the escape alarm (in the factory-adjusted condition it is on already):

SET ESCAPE #1513

6.4.2 Switching off the escape alarm

RESET ESCAPE #1513

6.5 Alarm repetition

In order to provide more safety in the case of an alarm, it is possible to set the alarm activation this way that the alarm, which has been set off already, will repeat. Depending on requirement it is possible to set the time from 0 to 60 minutes.

6.5.1 Switching on the alarm repetition

SET REPEAT <minutes> #1513

An example for a repetition every 10 minutes:

SET REPEAT 10 #1513

6.5.2 Switching off the alarm repetition

RESET REPEAT #1513

7. Technical alarm settings

7.1 GSM alarm settings

SMS commands for the GSM alarm:

7.1.1 Adjustment of the GSM threshold

You have a possibility to adjust the threshold for the GSM alarm at your own will resp. requirements.

The value from 10% to 90%, whereby Life-Tel II sends an alarm, can be set.

SET GSMALARM <value> #1513

Example for 30%:

SET GSMALARM 30 #1513

In case of lower deviation of 30% the alarm will be set off.

7.1.2 Switching off the GSM alarm

RESET GSMALARM #1513

7.2 GPS alarm settings

SMS commands for the GPS alarm:

7.2.1 Adjustment of the GPS threshold

You have a possibility to adjust the threshold for the GPS alarm at your own will resp. requirements.

The value from 1 to 60 minutes can be set.

Definition: If after X minutes insufficient satellite data for providing of necessary coordinations are available, Life-Tel II sends an alarm.

SET GPSALARM <value> #1513

Example for 10 minutes:

SET GPSALARM 10 #1513

In case of exceeding of 10 minutes the alarm will be set off.

7.2.2 Switching off the GPS alarm

RESET GPSALARM #1513

8. Determination of the position

By means of the GPS receiver the current GPS position can be determined.

Furthermore the user has a possibility to obtain an information, as soon as the product will leave the (allowed) area defined beforehand. All functions related to determination of the position will be explained in the following text.

At first a few technical hints:

- Depending on the position of the GPS receiver, line of sight to the sky and the current weather situation it can last up to 5 minutes until a GPS location can be performed.
- The time until the first position recognition can be reduced by an optimised position of the receiver.

- Within the first 30 minutes after the position determination the GPS position data can have a higher deviation. It is connected with the GPS signal, which needs correction data for a high precision. They interfere with the GPS signal and usually they are transferred every 30 minutes.

8.1 General GPS location (GPS), switching GPS on and off

If you want to switch GPS on and off, you should use following commands:

Switching on SET GPS # 1513

Switching off RESET GPS # 1513

By use of the following command the current GPS co-ordinates can be queried and sent back in the response SMS without analysis. In the case of this command you must care for the analysis of co-ordinates, e.g. by entering these co-ordinates in the route planner or in the website with map projections.

The command thereto sounds:

TEST GPS # 1513

Example of a response:

M-LifeTel 5.xx

Time: 12:26:52

Latitude:

52.235381N

Longitude:

021.12073E

Altitude above sea level: 98.0m

Quantity of satellites: 05

8.2 Sending of the web link with GPS location (GPSMAP)

If you have a mobile phone with an internet connection at your disposal, you can have the current GPS co-ordinates shown as a web link of an adjustable map projections provider. The current position can be shown directly this way.

The command for this function sounds:

TEST GPSMAP # 1513

Example of a response:

M-LifeTel 5.xx

13:01

<http://maps.google.com/maps/api/staticmap?center=5223458,2112536&zoom=15&size=270x250&markers=+52.23458,+021.12536&sensor=false>

After clicking the link, you can see on display of your mobile phone, where the device is located.

Zoom and changing of the map provider:

Two map provider are available, whereby a certain zoom mode can be set additionally.

For changing following command is necessary:

SET GPSMAP <NR> #1513

The parameter „NR“ has following meaning:

0	OSM map, standard zoom (basic setting)
1-6	OSM map, with various zoom levels
100	GoogleMaps with updated link format
101-106	GoogleMaps with various zoom levels

As an answer you will receive an SMS with a new link.

In the case of GoogleMaps only a map projection without any navigation possibility will be shown. In return this site can be shown also by older mobile phone.

The linked web site of OpenStreetMap.org demands current internet browser for indication and navigation of map projections. Therefore a current Smart phone is

necessary in this case. In both cases an internet connection through a mobile phone is necessary.

8.3 Automatic transfer (GPS, GPSMAP, special function)

There is a possibility to have many GPS co-ordinates or map links sent automatically. The presentation of the path of movement of the sheltered person is possible this way.

For this case following command should be used:

TEST GPS <Time> <Quantity> #1513

Or

TEST GPSMAP <Time> <Quantity> # 1513

The parameter „Time“ has following meaning:

1-249: Time in minutes between messages

250: 30 seconds

251: 15 seconds

The parameter „Quantity“ stands for the maximal quantity of SMS messages that should be sent (setting range 1-1000).

Example:

TEST GPS 2 3 # 1513

The device sends three SMS messages with the current GPS position at two-minute intervals.

TEST GPSMAP 2 3 # 1513

The device sends three SMS messages with the position of the sheltered person presented on the map at two-minute intervals.

For the case, when the automatic transfer of the GPS data should be quitted, following command should be sent to device:

RESET TESTGPS #1513

8.4 Energy saver mode (GPSSAVE)

If the device is connected to an external power supply, the current location is checked every second.

In order to save energy under battery operation, the GPS receiver switches off automatically and is activated only 1x an hour. If the product changes its location (changing of the GSM radio cell BTS) or the device has received the command „TEST GPS“, the current GPS location will be updated immediately.

The user has a possibility to change the interval between the automatic updates in energy saver mode:

SET GPSSAVE <Time> # 1513

The parameter „Time“ stands for the quantity minutes (1.....250) in this case. In the case of setting „0“ the GPS receiver won't be switched off.

The battery service life will be greatly affected by this setting. If e.g. the disconnection of the GPS receiver will be switched off (GPSSAVE = 0), the battery service life is reduced to few hours.

Return to factory settings:

Please send the following command to return to factory settings again (60 minutes):

RESET GPSSAVE # 1513

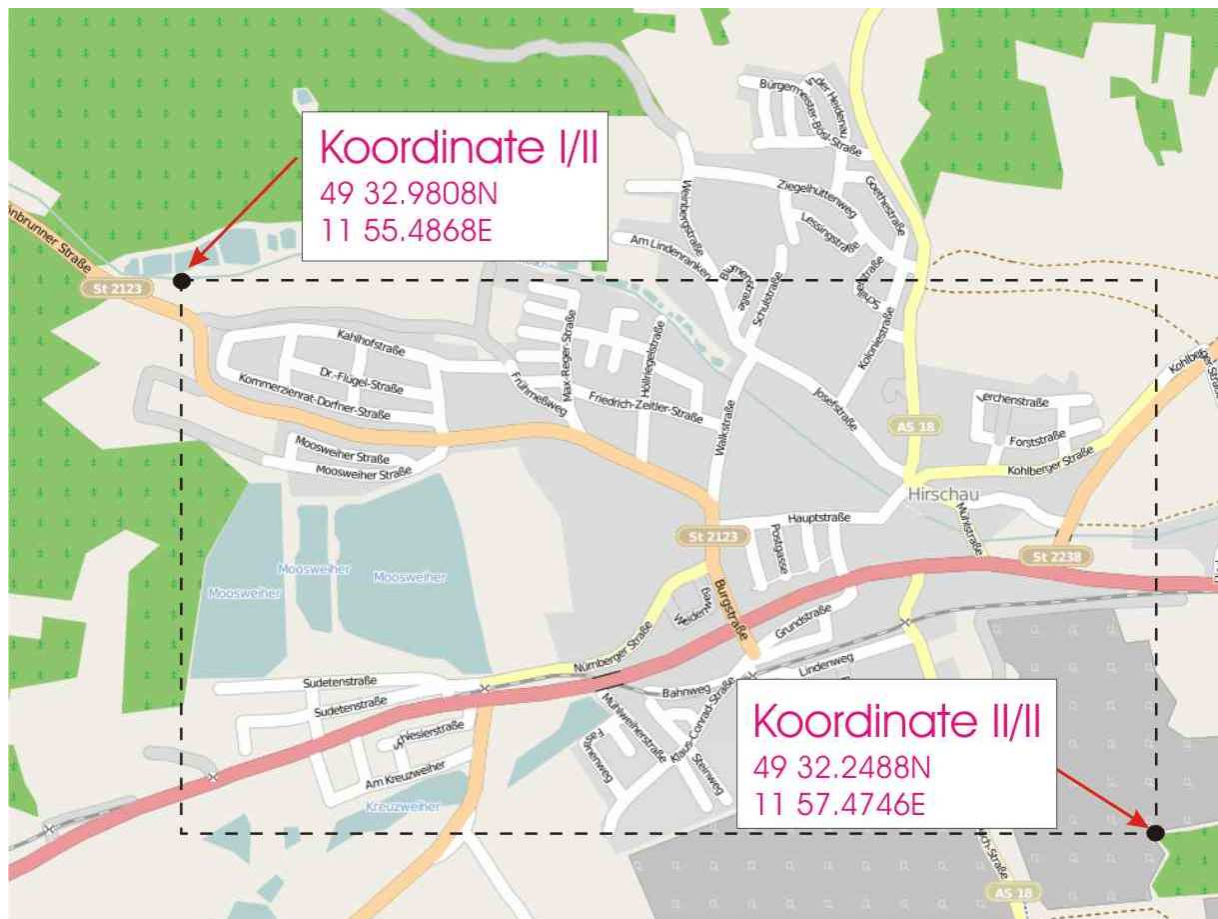
Testing settings:

The performed settings can be tested by use of the following command:

TEST GPSSAVE # 1513

8.5 Programming of a GPS zone

The product can be used for zones monitoring. As soon as the approved zones have been programmed (max. 10) and the alarm mode (“ENABLE”) has been activated, an alarm message with current GPS co-ordinates will be sent to all saved telephone numbers in the case of every action of crossing of the approved zone(s).



For programming of zones following command should be used:

SET GPSZONE <Latitude 1><Longitude1><Latitude2><Longitude2> # 1513

Latitude1 = upper border (direction North)

Latitude2 = bottom border (direction South)

Longitude1 = left border (direction West)

Longitude2 = right border (direction East)

In the following example has been presented the data input format:

Latitude – gg.gggggg N (degree)

e.g.: 49° 59,5058' N = 49.991763 N

Longitude – ggg.gggggg E (degree)

e.g.: 11° 57,0399' E = 011.950665 E

Please make sure that the missing numbers are filled with "0".

Example: 3° 3.23' E = 003.032300 E

In the case of Life-Tel II GPS co-ordinates are specified in degrees and minutes with six decimal places. The data input is possible within the range of xx.000000° to xx.999999°.

Example:

The command for zones monitoring must be entered in the following way:

SET GPSZONE 49.549680N 011924780E 49.537480N 011.957910E # 1513

As a confirmation the following message will be sent back:

M-LifeTel 5.xx

Monitoring: on

GPS Zone:1/1

Latitude:

49.549680N – 49.537480N

Longitude:

011.924780E – 011.957910E

Please note that a new zone will be added, every time when the command "SET GPSZONE" has been used. If the memory limit has been reached, an error message will be sent back.

Cancelling of all saved zones:

For cancelling of all saved zones serves the following command:

RESET GPSZONE ALL # 1513

Cancelling of a single zone:

For cancelling of a single zone serves the following command:

RESET GPSZONE <zone number> # 1513

Testing of the programmed zone:

In order to test the programmed zones in a certain location, following command should be used:

TEST GPSZONE <location number> # 1513

For „location number“ values 1 to 10 are possible.

Example:

TEST GPSZONE 3 # 1513

As a confirmation following SMS message will be sent back:

M-LifeTel 5.xx

Monitoring: on

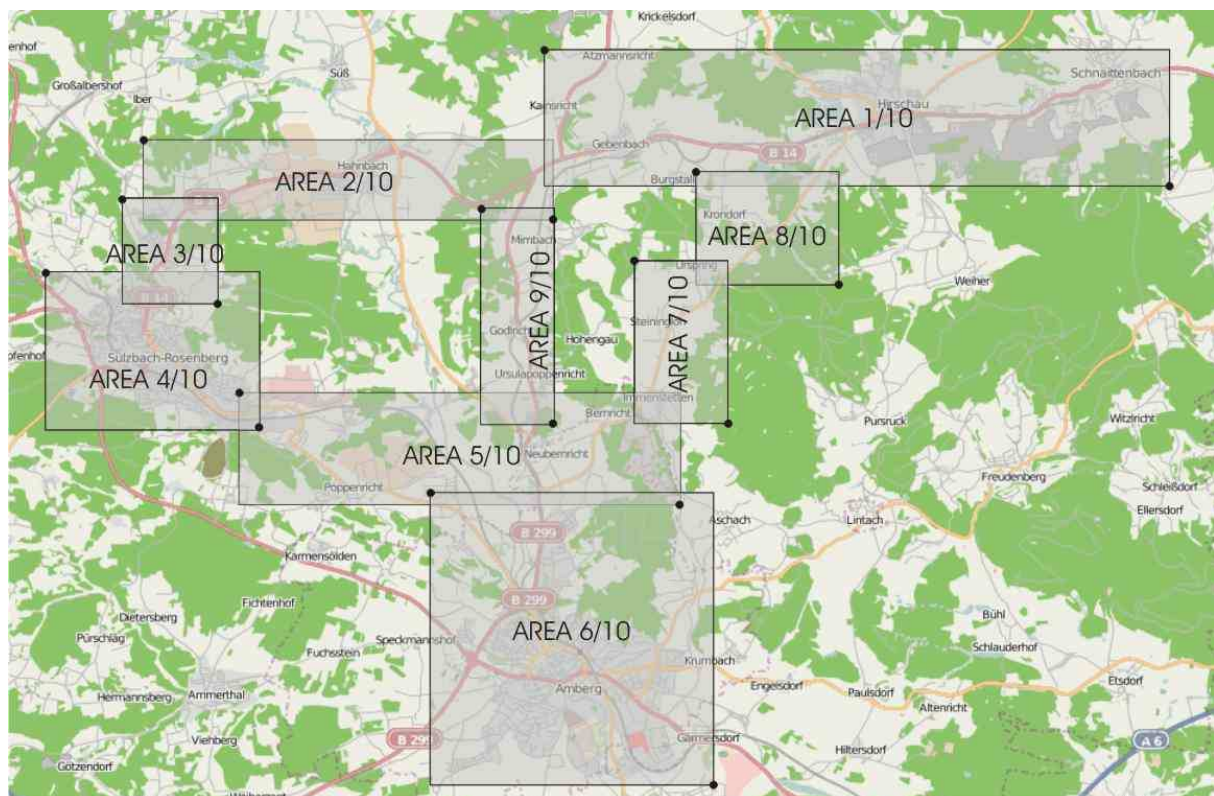
GPS Zone:3/7

Latitude:

49.549680N – 49.537480N

Longitude:

011.924780E – 011.957910E



You can connect many zones to one corridor. The borders of zones run along the specified longitudes and latitudes. Diagonal zones can't be specified. The zones must overlap in each other, as far as they belong to one corridor.

If the GPS zones monitoring isn't necessary any more (the whereabouts of the user of the device is known), the module can be switched off, which will lengthen the operation time of the device. For this purpose serves the command:

RESET GPS #1513

In order to switch the GPS on again, following command should be sent to Life-Tel II via SMS:

SET GPS #1513

8.6 GSM cells location (CELL)

If the device can't find any GPS location, there is a possibility to determine the position by means of GSM cells nearby. However it is only a matter of an emergency solution, if the proper location via GPS isn't possible (any more).

Please use for this purpose the following SMS command:

TEST CELL # 1513

- For itemisation of the radio cell code please turn to your mobile phone provider.
- Please note that the query of the current location isn't approved by all of providers.

Example: SMS report

M-LifeTel 5.xx

Battery: 92

GSM : 69

Zone: 70C7

Point in time: 2

Cells info:

Warsaw

Adjacent cells:



5331

532e

5332

5b93

9. System functions

In this chapter have been explained technically challenging functions. The default settings have been performed for the majority of areas of application already. Therefore we recommend you to adjust these parameters only in the corresponding case of application.

In such a case, when the product has malfunctioning, basic settings should be reactivated at first.

If a contact with a hotline is necessary, please make sure, whether the device is in its standard configuration again.

9.1 Time between two alarm messages (IDLEALARM)

In the case of an alarm Life-Tel II sends an alarm message. Further messages of the same kind can be sent only, if there has been registered a new alarm situation after a certain interval (factory settings: 7 minutes). Interval can be changed.

Please use for this purpose the following SMS command:

SET IDLEALARM <Time> #1513

The time can be set between 1 and 240 minutes.

Example:

SET IDLEALARM 15 #1513

The interval between alarm messages amounts to 15 minutes in this case.

Attention!

During this interval you won't be informed that the alarm cause has changed again. You should make sure that you control the parameter during this time yourself.

Return to factory settings

Please send following command in order to return to factory settings (7 minutes):

RESET IDLEALARM #1513

Testing settings

In order to test the required settings, please use following command:

TEST IDLEALARM #1513

9.2 Return to factory settings via SMS (RESET SETUP)

If you want to reset the product to factory-adjusted condition, please use following command:

RESET SETUP 12345678 # 1513

All settings that have been performed so far get lost and are cancelled for good. The PIN number of the SIM card doesn't get changed during the return to basic settings. Therefore after reset the product can't register again (SIM card = recently set PIN, product = 1513).

Alternatively the product can be reset also manually. It has been described in the separate chapter.

10. Manual return to factory settings

Switch the device off by means of the ON/OFF button. Press the ON/OFF button again together with the blue, red and green button. A long beep is sounded. It is recommended to switch the device off and to switch it on again.

11. Disposal



Please dispose of the product at the end of its operational life span due to applicable legal regulations.

12. Technical data

Temperature range: operating range at least -10°C to $+55^{\circ}\text{C}$

Storage area: at least -25°C to $+80^{\circ}\text{C}$

Weight: 92g (with integrated battery)

Dimensions: 116 mm x 42 mm x 21 mm (LxWxH)

Operating voltage: 3,3 Volt to 4,2 Volt (nominal 3,6Volt)

Standby time: at least 72 hours

Time of conversation: up to 160 minutes

Please note: The standby time and the time of conversation depend on the local reception of Life-Tel II!

Module: Wavecom Q2400

Battery: 1100 mAh

Charge time: 45 minutes

SIM card: 3 Volt

Frequency bands: EGSM900 (880 to 960 MHz)

DCS1800 (1.710 to 1.880 MHz)

GSM classes: class 4 (2Watt) by EGSM900

Class 1 (1Watt) by DCS1800

Data service: SMS

GPS module Sirius 1513R, 65 canal receiver, high sensitivity – 161 dBm

Open sky hot start 1 sec, cold start 29 sec location accuracy 2,5m

This device works due to following standards:

GSM 03.03: "Digital cellular telecommunications system (Phase 2+); numbering, addressing and identification". Version 6.6.0.

GSM 03.13: "Digital cellular telecommunications system (Phase 2+); Discontinuous Reception (DRX) in the GSM system". Version 6.0.0.

GSM 04.02: "Digital cellular telecommunications system (Phase 2+); GSM Public Land Mobile Network (PLMN) access reference configuration". Version 6.0.0.

GSM 04.03: "Digital cellular telecommunications system (Phase 2+); Mobile Station-Base Station System (MS-BSS) interface Channel structures and access capabilities". Version 6.0.0.

GSM 04.04: "Digital cellular telecommunications system (Phase 2+); Layer 1 General requirements". Version 6.0.0.

GSM 04.05: "Digital cellular telecommunications system (Phase 2+); Data Link (DL) layer General aspects". Version 6.0.1.

GSM 04.07: "Digital cellular telecommunications system (Phase 2+); Mobile radio interface signalling layer 3 General aspects". Version 6.5.1.

GSM 04.08: "Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 specification". Version 6.11.0.

Production: TSL Elektronik Sp.z o.o.

ul. Płowiecka 5A

PL-04-501 Warsaw

Service: info@tslelektronik.com.pl

13. Declaration of conformity

We, **Mobi-Click AG; Pfad 1A; CH-6330 Cham/ZG - Switzerland**

declare under sole responsibility that the product:

Mobile Phone and Security System Mobi-Click Life-Tel II (suitable for GSM/E-GSM 900 MHz and PCN 1800 MHz)

To which this declaration relates, is in conformity with the following essential requirements of the Directive 1999/5/EC: Article 3.1 a), 3.1 b) and 3.2

The product has been tested against the following standards:

EN 301 511	Harmonised Standard for Mobile Stations in the GSM900/1800 Bands
EN 301 489-01	Electro Magnetic Compatibility Standard for Radio Equipment and Services
EN 301 489-07	Specific (EMC) Conditions for Mobile Radio Equipment, GSM 900/1800
EN 60950/IEC 950	Safety of Information Technology Equipment
EN 50360	Product Standard to demonstrate the Compliance of Mobile Phones with the Basic Restrictions related to Human Exposure to Electromagnetic Fields
EN 50361	Basic Standard for the measurement of Specific Absorption Rate related to Human Exposure to Electromagnetic Fields from Mobile Phones
1999/519/EC	Council Recommendation on the Limitation of Exposure of the General Public to Electromagnetic Fields

The product is marked with the CE marking and Notified Body number according to the Directive 1999/5/EC (R&TTE): Identification mark: CE 0682

Place of Issue: Cham/ZG

Date of Issue: 30.05.2012



red button SOS 1

blue button 2

green button 3

socket for power supply/battery charger

microphone speaking

loudspeaker

ON/OFF button (ON/OFF)

LED 2

LED 1

