Emergency mobile phones
gsm s, **gsm s plus**, **gsm s Ex**, **gsm s Ex plus**

1 50 1043 6001

Own telephone number:

Name of user / user group:

Operating Manual

Order number:
1 50 1043 6001 GB
V 0.9s

FELSENMEER

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Safety information

Please read the following information prior to putting the unit into operation for the first time in order to ensure compliance with the intended use as well as safety, reliability and system performance.

Regulations and provisions

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- All units carry the CE mark of conformity CE, followed by the identification number of the Notified Body supervising the quality assurance system. Explosion-protected units additionally carry the explosion-proofness marking ⟨Ex⟩.

  In potentially explosive atmospheres, only explosion-proof units may be used
- **Observe and follow the special safety information for operating explosion-proof units in explosion-proof areas!**

Protection against possible endangering of your hearing

- **Do not move the the loudspeaker at the rear side (ringing tone, open listening) directly near your ears when in handsfree talking mode!**

  In handsfree talking operation, the loudspeaker exceeds the level of 80 dB (A) as measured directly at the source and may consequently cause a permanent hearing defect when the distance between loudspeaker and the ear is too small or when this effect occurs very often. For more details about the typical levels for the ring tone volume and the signalling tone volume of this device see the ‘technical data’.

  Notes:

  – The professional emergency mobile phones **gsm s**, **gsm s plus**, **gsm s Ex** and **gsm s Ex plus** by default are equipped with a vibration alarm for signalling and with an additional handsfree operation loudspeaker fitted to the rear of the housing.

  – Please note: The acoustic signals for pre-alarm, personal alarm and sensor test are carried out using a high signal volume. Thus, there is a risk of a hearing defect when the distance between loudspeaker and your ear is too small or when this effect occurs very often.

Safety information

The emergency mobile phone and electronic body aids

- If you use a pacemaker or other electronic body aids, you should always carry the emergency mobile phone on the other side of your body. The distance of the emergency mobile phone from a pacemaker should be 20 cm min. at all times.

  This information is available in the internet at the following address: Bundesministerium für Wirtschaft und Arbeit / Wirtschaft / Telekommunikation und Post / Mobilfunk Informationen / Gesundheit / Mobilfunk und Herzschrittmacher (as of February 2006). If necessary, consult your doctor.

  Please contact your hearing aid specialist for questions regarding the compatibility of the emergency mobile phone with a hearing aid.

Personal safety and application safety when using the emergency functions

- The emergency functions are available after the unit has been switched on, followed by the sensor test!
- After removing the unit from the charger, carry out the sensor test and visual inspection thoroughly. Verify the flawless function and condition of the unit.
- Have units that appear not to be in proper operating condition removed from service until they have been inspected.
- Ensure that the unit is securely fixed to your clothing!
- In a **(mobile) radio network**, there is no guarantee of permanent reachability due to system properties. For this reason, check the proper **log-in** of the unit to the mobile radio network at regular intervals. The configured emergency functions of the emergency mobile phone are available only when the GSM status indicator flashes slowly (once in 3 seconds).

  Exception[1]**:** You are within the coverage of a **gsf** remote control module. In this case, a personal alarm, if necessary in addition to the alarm via the mobile radio network, is transmitted by a relay contact of the **gsf** remote control module, provided the emergency mobile phone is configured accordingly. When within the coverage of a properly installed and

[1] Valid for emergency mobiles with ISM-band transceiver only.

Safety information

connected **gsf** remote control module, a connection with the mobile radio network is not required.

- If the emergency mobile phone cannot transmit an emergency call immediately due to a high number of calls on the network or due to insufficient radio coverage, it will repeat transmitting the emergency call until transmission is successful.
- The emergency functions may be configured only by trained specialists from the emergency call center or with the support of our service department!
- Contact your system administrator to obtain information about the actually existing (configured) alarm options of your unit!
- Your unit is equipped with a two-level battery monitoring: a battery warning and a battery alarm. Should your unit give you a **battery warning**, its remaining service time is limited to 4 hours max. The emergency mobile phone will sound a **battery alarm** just before the battery is completely empty and will then switch itself off.
- Pay particular attention to the useful configuration of the guard control mode parameters if you wish to use this feature. If necessary, consult our service department!

Protect your emergency mobile phone

- Never unscrew the unit housing screws! The housing may be damaged and/or lose its tightness (IP 65, dust-tight and jet-proof).
- Protect the unit against extreme environmental influences (e.g. temperatures outside of the range specified in the technical data and extended direct solar radiation).
- Do not expose the unit to extremely strong magnetic fields such as those that may occur near induction furnaces and electric welding equipment!

If the handset disturbs other units and systems

- Usually, other electronic devices are protected against high-frequency irradiation. However, if such a unit is insufficiently screened, malfunctions may result that can be removed by a sufficiently large distance between both units.
- Switch off the emergency mobile phone wherever the operation of mobile phones is forbidden. The use of mobile phones may be forbidden or

Safety information

restricted in airplanes, in petrol stations, near fuels and chemicals, in explosion areas and in hospitals. Always observe local information and prohibitions.

Handling batteries, dispatch, storage, battery replacement

- If batteries become leaky in extreme cases, escaping electrolytes or gases must be expected. Switch off the unit and dispatch it to the service dept. Whitish coats on the housing and an unusual or a pungent smell point to leaks.
- Protect yourself against chemical burns and poisoning by avoiding inhalation of escaping gases and direct skin contact with the escaping electrolyte. In case of doubt, consult a doctor!
- Before dispatching the emergency mobile phone or storing it for an extended period, switch it off and charge its battery in order to avoid deep discharge and damage. During extended storage, the battery of the emergency mobile phone must be recharged every 3 months.
- An empty battery may be replaced only by authorised specialists.

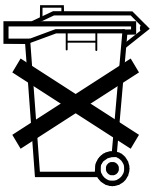
Disposal of emergency mobile phone

The disposal of worn-out electrical and electronic equipment has to be carried out according to the WEEE directive 2002/96/EC and its addenda, released by the European Parliament. Refer to the regulations of your country, please.

- A worn-out emergency mobile phone must never be disposed with the household waste since it contains materials hazardous to environment.
- Worn-out units must therefore be disposed of at an electronics waste collecting point for environmentally compatible disposal. The rechargeable lithium-ion battery will be disposed of as hazardous waste.

Chargers

- All mains socket-outlets supplying the chargers must be located near the chargers and be accessible at any time. The mains socket-outlets must have been properly installed by trained personnel.
  Before connecting the power supply unit with the socket-outlet: Ensure that the mains voltage is the same as specified on the power supply unit (e.g. 230 V, 50 Hz).



Safety information

- Chargers and their plug-in power supply units do not contain any serviceable parts.
  Repairs must be made properly by trained personnel. Have defective or damaged chargers and plug-in power supply units replaced by original parts only, even if only the cord is damaged.
- **Be careful when handling damaged plug-in power supply units!**
  Disconnect the socket-outlet from the supply (remove or switch off fuse of respective circuit) before pulling a mechanically damaged plug-in power supply unit out of the socket-outlet!
  Touching live parts is life-threatening!
- The chargers and plug-in power supply units are designed for use in an office environment. Protect them against heavy dirt, dust, moisture and wetness as well as direct heat radiation.
- **The chargers and plug-in power supply units are not explosion-protected and therefore may be installed and used only outside of hazardous areas with potentially explosive atmospheres.**

Additional information regarding the intended use of explosion-protected emergency mobile phones in hazardous areas

Use of units in hazardous areas

In hazardous areas only such units may be used which comply with the basic safety and health requirements of directive 94/9/EC. Explosion-protected units meeting this requirement carry the CE mark of conformity CE, followed by the identification number of the Notified Body supervising the quality assurance system and the explosion protection symbol Ex.

Hazard degree in hazardous areas

There are hazardous areas (zones) with different hazard degrees. The units may only be used in those zones which have no higher hazard degree than that indicated by the manufacturer‘s specification of sub-assembly and category on the unit. The party operating the units and the system is responsible for defining the zones.

Replacing and charging batteries

Batteries may only be replaced and housings of explosion-proof units may only be opened by the manufacturer.

Safety information

Charge the batteries only outside of the hazardous areas. Use only the system-compatible chargers having the order number 50 10**45** 8000. The use of other chargers which are not system-compatible is strictly forbidden since the batteries may overheat and be damaged. Explosion-protected emergency mobile phones with overheated batteries must never be introduced into hazardous areas!

Functional test

A functional test must be carried out prior to introduce a unit into hazardous areas. If the unit is suspected of having any fault or malfunction when carrying out the test, it must not be introduced into hazardous areas. The unit has to be sent to the manufacturer for verification and test instead.

Use of bag, explosion-proof units with clip

There is no carrying bag available to be used with explosion-proof units in hazardous areas.

When using third-party bags, the explosion-protected operating permit for the unit will expire.

Attention: In hazardous areas, only explosion-proof units **with a clip mounted** may be used.

Working on the explosion-protected unit

All work and modification on the unit as well as interventions may only be carried out by the manufacturer!

Recommissioning after interventions into the unit

After each intervention into an explosion-proof unit (repair, battery replacement) and before recommissioning, an authorised testing agency must have properly ascertained and documented that the unit in question meets the requirements of the directive 1999/92/EC of the European Parliament and of the Council of 16 December 1999 (regulations on safety and health protection of workers potentially at risk from explosive atmospheres). Any intervention or repair must keep the unit in compliance with the prototype test certification documents. Only original spare parts and accessories from the manufacturer have to be used.

Safety information / for your notes

Damaged units

Apparently or only presumably damaged units must not be introduced into hazardous areas. If an apparently or presumably damaged unit is present in a potentially explosive atmosphere, it must be switched off immediately and removed from the hazardous area. Unintended switching on again must absolutely be avoided.

Expiry of explosion protection operating permit

Any modification of the unit or of unit parts that has not been carried out by the manufacturer will invalidate the operating permit for this unit. In that case, the unit must not be introduced into hazardous areas or used there.

Removing the clip in particular will also invalidate the explosion protection operating permit!

Service-Adapter connection

On the back of the explosion-proof equipment is a service adapter port located, sealed with a rubber plug ex factory. The explosion-proof equipment shall be placed and operated only in explosion-hazard areas while the service adapter port is closed with the undamaged original plug.

Introduction

The **gsm s** and **gsm s plus** emergency mobile phones are modern, easy-to-use means of communication including an emergency function. Using a mobile radio network, they ...

- ... set up a voice connection with an emergency call center after an emergency call is released and transmit further emergency call and alarm data to that center.
- ... set up a voice connection with a stored phone number without releasing an emergency call after pressing one of two further buttons.

Special emergency functions of the emergency mobile phones enable making emergency calls even without the intervention of the person in need.

Localization functions are also available that make it easier to locate the person needing help.

In most cases, the emergency call center will be a centralised point equipped with a telephone for incoming emergency calls and a PC with application software for processing the emergency call and alarm data.

If the customer so requests, emergency calls can also be transmitted **to a normal mobile phone** and received there instead of an emergency call center with PC. The **mobile phone** additionally displays the emergency call and alarm data transmitted in addition to the voice connection set-up in plain text, just like an SMS.

The emergency mobile phones are also available as explosion-protected units under the type designations **gsm s Ex** and **gsm s Ex plus**.

Features of emergency mobile phone

General

- The emergency mobile phone combines GSM voice communication and emergency functions in one single unit.
- Manual emergency calls can be released even without looking at the unit thanks to a large, easy-to-locate emergency call button. In addition, the easy operation makes the efficient use of the telephone and emergency call functions easier, even if the person in need is under severe stress.
- The use of beacon transmitters (**gso**, **gso v**, **gso va** and **gmt**) enables determining and documenting the location of a **gsm s plus** emer-

Introduction

gency mobile phone respectively using previously recorded location data. The associated time is also recorded and documented at the same time.

- The use of remote control modules (**gsf**) allows detecting and passing on emergency calls from a **gsm s** plus emergency mobile phone via a relay contact in places with insufficient radio coverage.
- A loud signal generator assists the rescue team in acoustically locating the emergency mobile phone in cases of emergency.
- The emergency mobile phones offer an open listening and a handsfree talking function.
- Unit configuration is remote-controlled by the emergency call center or with remote support by our service staff.
- The emergency mobile phone has a sturdy housing with degree of protection IP 65 (dust-proof and protected agains water jets).
- Lightweight.

Alarm types

- User initiated alarm:
  - Emergency call alarm by pressing the emergency call button
- Automatic initiated alarms with pre-alarm:
  - Tilt alarm if the unit is heavily tilted
  - No-motion alarm in case no motion is detected
  - Time alarm (also referred to as dead man‘s circuit) if a button is not pressed within configurable regular intervals.
- SOS call (option): Setting up an emergency voice connection with a public emergency call center (release: keep emergency call button pressed for at least 10 seconds).

Other security functions

- Performing a sensor test:
  - After switching the unit on
  - At regular intervals during service

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- Regular life check (option) by means of messages to the emergency call center at regular intervals
- Open listening and handsfree talking remote-controlled from the emergency call center following an emergency call
- „Guard control message“ mode
- The alarm types can be configured and activated individually. Exception: The emergency call alarm cannot be switched off.

Telephone functions

- Setting up of voice connections without emergency call to two further pre-set phone numbers.
- When switched on, the emergency mobile phone can be called at any time from any telephone and mobile phone.

Enabling and preparations for use

Before you can use the emergency mobile phone, proceed as follows:

- Conclude a contract with a network provider of your choice at your local dealer; further costs arise from this.
- Charge the emergency mobile phone battery completely (see „Power supply“ chapter - Charging the battery).
- Configure the emergency mobile phone [1].

For further hints and details about configuration refer to the list of parameters in chapter „Configuration overview“, please.

[1] Configuring means that the emergency mobile phone is programmed with application-related information.
For example, with the phone numbers for emergency calls and the voice connection buttons, with the desired emergency functions and, if required, with other data and information.

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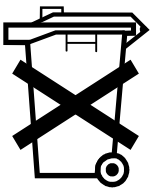
Information, tips and hints

- Always carry your emergency mobile phone with you if you depend on the use of the emergency call functions or other features of the emergency mobile phone.
- Switch the unit off only if the use of mobile phones is not allowed at your whereabouts, e.g. in airplanes and hospitals.
- Place your emergency mobile phone into the charger as soon as the battery charge indicator starts flashing and indicates an exhausted battery.
- Use an anti-slip pad for your charger, especially on new or polish-treated furniture. Varnishes or polishes may contain substances that soften the base of your charger. The softened base may leave unwanted spots on furniture surfaces. Felsenmeer AG will not be liable for such damage.
- Your emergency mobile phone is equipped with a sturdy housing, shock-proof and water-protected. You may also use it outdoors. Nevertheless, protect your unit against permanent wetness, extended heat impact and heavy soiling.
- Your emergency mobile phone works in a GSM/DCS mobile radio network.
- Worn-out emergency mobile phones and their components, e. g. used batteries, must be disposed of at an electronics waste collecting point for environmentally compatible disposal.
  These units and components are marked by a crossed out dustbin and therefore must not be disposed of together with domestic waste.



- **Observe and follow the safety instructions in this Operating Manual!**

Introduction

Shipping package of one set

Please check the shipping package immediately when you take delivery of your **gsm s** / **gsm s plus** / **gsm s Ex** or **gsm s Ex plus** emergency mobile phone in the set:

- The emergency mobile phone

  Notes:

  – For the SIM-number, the order number and the serial number of the emergency mobile phone see the label on the set package.

  – **Caution:** The clip must be mounted on explosion-protected units!
- Charger with plug-in power supply unit, both matching the respective emergency mobile phone.
- The present Operating Manual

The components of this set are also available separately.

EU declaration of conformity

Felsenmeer AG declares that the products **gsm s** / **gsm s plus** / **gsm s Ex** and **gsm s Ex plus** meet the basic requirements and other relevant regulations of the directive 1999/5/EU (R&TTE).

You may request a copy of the EU declaration of conformity if required from the E-Mail address **info@felsenmeer.ch**.

Please contact your dealer or the Felsenmeer AG service department if there are problems in operating your unit.

Introduction

– Explosion protection approval and EU type test certificate

The EU type test certificate ZELM 06 ATEX 0315 X with the relevant markings applies to gas explosion protection and to dust explosion protection as follows:

General marking according to ATEX: II 2 G D

Classification for gas explosion protection: Ex ib IIC T4 Gb
for an ambient temperature range Ta= –10 °C ... +40 °C .

Classification for dust explosion protection: Ex ib IIIC T100 °C IP 6X Db
for an ambient temperature range Ta= –10 °C ... +40 °C .

See the attached supplement order number 1 50 1000 9302 for a list of applied standards including their date of issue the explosion-proof units comply with.

For a rendition of the contents see page 76 and the following, please.

Emission of radio signals

The unit meets EU requirements on the emission of radio signals.

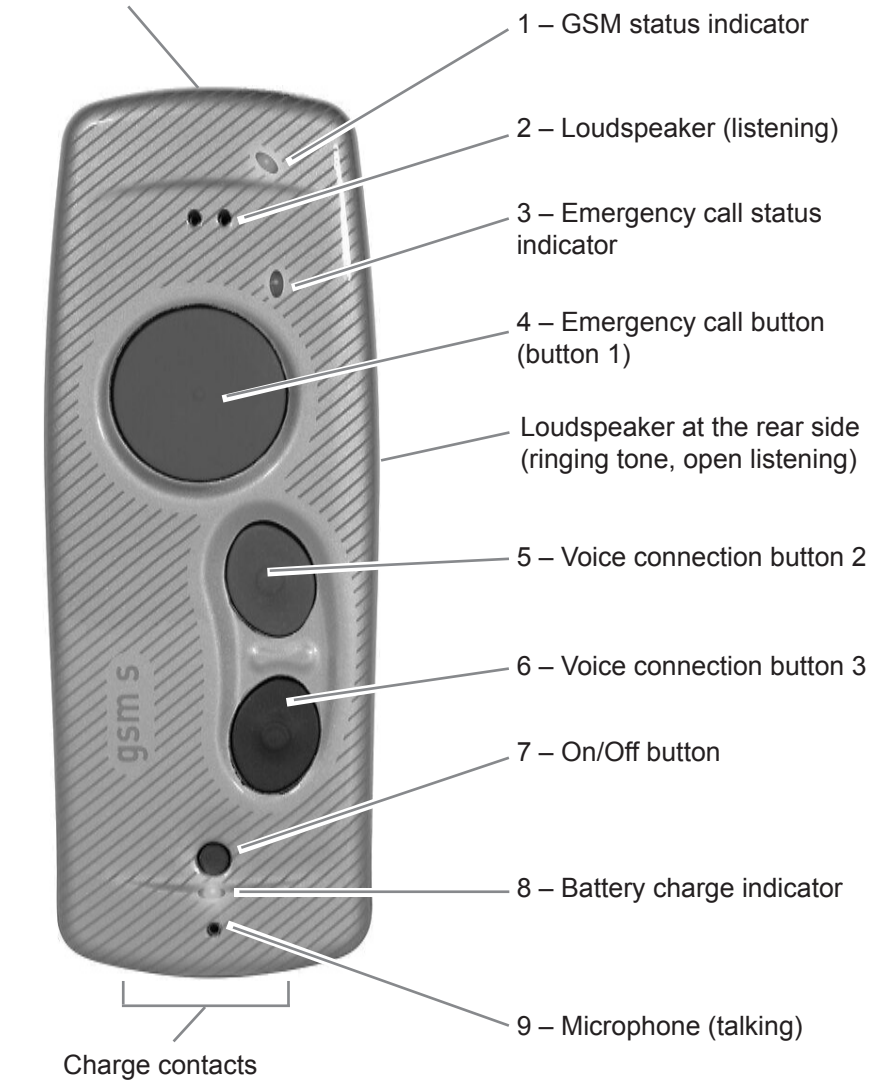
As any mobile phone, your emergency mobile phone is a transmitter and receiver of radio signals.

The transmitter is designed so that the radio-frequency (RF) energy threshold values recommended by the Council of the European Union will not be exceeded.

These threshold values are part of comprehensive guidelines defining allowed RF energy values for the general public. These guidelines were prepared by independent scientific organisations, using regular and thorough evaluation of scientific studies.

These guidelines include a substantial safety margin that is to guarantee the security of persons of any age and health condition.

Controls and displays



Controls and displays

1 – GSM status indicator

- Off = the emergency mobile phone is switched off.
- On = voice connection, automatic redialling or unit switches itself off.
- Flashing (once per second) = Searching for a mobile radio network.
- Very slow flashing (once in 3 seconds) = unit has logged into a mobile radio network.

2 – Loudspeaker (listening)

- The loudspeaker at the front of the unit is used for the key-tones, for all the signalling during sensortest and for normal telephióne call connections with the emergency call center or any other telephone subscriber.
- The loudspeaker at the rear side of the unit is used for the ringing tone and for open listening. Open listening goes on when emergency call center calls and the call is accepted automatically as well as with manual handsfree talking changeover.

  Caution: Ringing tone and open listening are working at a high volume. Take notice of the safety information in this manual!

3 – Status indicator for Emergency call and voice connection button 1

- On = Setting up an emergency call voice connection after pressing the emergency call button *or* display of an active emergency call voice connection *or* call from the emergency call center.
- Off = Unit can be called if it is switched on.
- Flashing twice per second = **pre-alarm signal**. Please remove alarm condition or reset pre-alarm with voice connection button 3!
- Flashing three times per second = the unit is not yet configured.
- Fast flashing (eight times per second) = **request to perform sensor test**. Please perform sensor test! (Second meaning: Device has not yet been configured)

4 – Emergency call button / voice connection button 1

- **Emergency call release:** Sets up an (emergency call) voice connection with the phone number of an emergency call center (user 1) or with a mobile phone (option).
- **Emergency call release:** Transmits an emergency SMS to the same or another phone number of the emergency call center or of a mobile phone (option).
- Ends an active connection – except an active emergency call connection – and releases an emergency call after this.

Controls and displays

- Switches the inactive unit on and releases an emergency call after this.
- **SOS call (voice connection) to the public emergency call number 112**, when the emergency call button is kept pressed for at least 10 seconds while the unit is switched on.

5 – Voice connection button 2

- Sets up a voice connection with a configurable user 2.
- Accepts the call when being called.
- Toggles between handsfree talking function (open listening / handsfree talking) and normal talking during an active voice connection.
- Starts the sensor test following a previous request.

6 – Voice connection button 3

- Sets up a voice connection with a configurable user 3.
- Rejects the incoming call when being called.
- Terminates an active call.
- Cancels an emergency call during connection setup.
- Resets a pre-alarm or a personal alarm.
- Deletes the acoustic „no mobile radio network“ signal.

7 – On/Off button

- Switches the unit on.
- Dead man‘s button to avoid a time alarm (restarts the time alarm).
- Switches the unit off (keep button pressed for at least 3 seconds, but less than 6 seconds).
- Forced shut-down when a button is pressed for more than 6 seconds.

8 – Battery charge indicator

- Off = Battery is not charged.
- Flashing yellow (once per second) = Battery empty.
- Lights up yellow = Battery is being charged.
- Lights up green = Battery is full; trickle charging goes on.

9 – Microphone (talking)

- Is also used as microphone during handsfree talking function (handsfree operation).

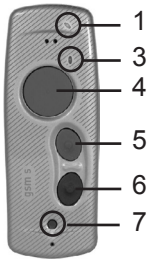
Frequently used functions

Switching on the emergency mobile phone

Caution: For safeguarding persons, use only emergency mobile phones with a battery charge sufficient for the period of use!

If you are not sure about the current charging status of the battery in the emergency mobile phone, you must charge the battery before using the unit. To do this, connect the charger with the plug-in power supply unit, plug the plug-in power supply unit into a 230 V socket outlet and place the emergency mobile phone into the charger. The charging time for an empty battery is approx. 4 hours to 8 hours, depending on the type of handset.

- **Remove the emergency mobile phone from the charger and press the On/Off button (7) briefly. A signal tone sounds.**



- The emergency mobile phone switches itself on and will request you to perform the sensor test by means of three short repeating tones. In addition, the „Emergency call status indicator“ (3) starts flashing quickly.
- **Note:** Pressing the emergency call button will also switch on the unit and then release an emergency call!

Performing the sensor test

The emergency mobile phone will request you to perform the sensor test directly after switching it on with the On/Off button or regularly after a configurable sensor monitoring period [1] has elapsed.

These acoustic and visual requests consist of:

- three short and repeating signal tones and
- an „Emergency call status indicator“ (3) flashing quickly.
- **Caution:** Following a request, you have 5 minutes max. for performing a regular sensor test. Exceeding this time limit is treated like an unsuccessful sensor test.

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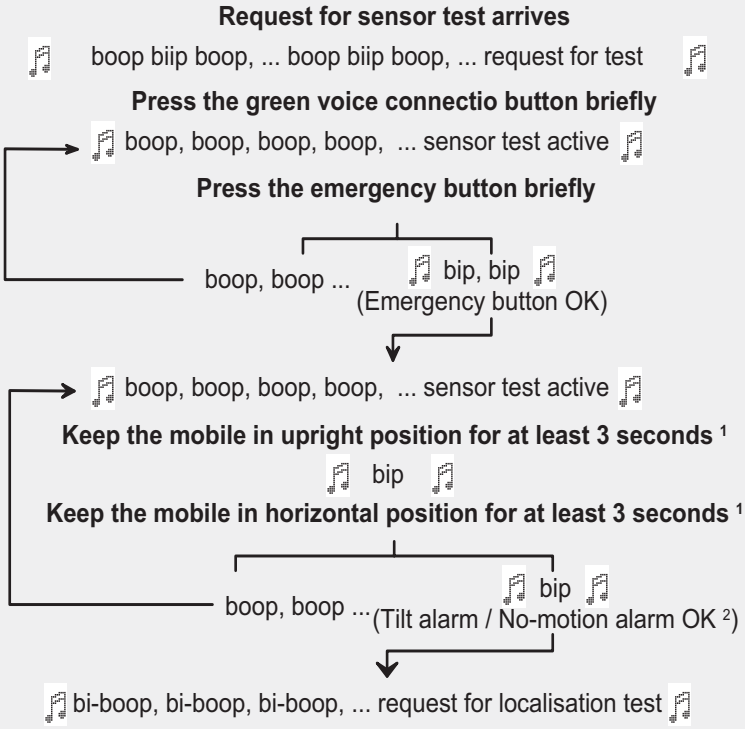
[1] This period defines at which intervals another sensor test must be performed at the latest unless the emergency mobile phone is not switched off before this period elapses.
This period restarts from zero after every successful sensor test.

Frequently used functions

Graphic guide through the sensor test

The sensor test must be carried out not exceeding 5 minutes after having been started. If the sensor test is not finished successfully within this time period, the test will be treated as having failed.



[1] Sensor tests are required for enabled alarms only!

[2] Please note: the result of the sensor tests apply to enabled alarms only!

GB

Frequently used functions

- **When this sensor test was successful, the signalling will now fall silent.**
- The green operational status indicator (1) starts flashing. The emergency mobile phone searches its mobile radio network and logs in.
- **If the sensor test has detected a fault, signalling continues like with an active sensor test.**
  The emergency mobile phone will not log in to its mobile radio network.

▶ **After an unsuccessful sensor test, repeat the test steps, following the sequence of emergency call alarm, tilt alarm, no motion alarm and localisation test or**

▶ **Switch off the emergency mobile phone as described below. Switch the emergency mobile phone on again and repeat the sensor test in order to exclude operating errors during the previous sensor test (e.g. incorrect handling or expiry of time available for the sensor test).**

▶ **If a fault is detected again in the repeated test, switch off the emergency mobile phone and have it checked.**

Particularities of sensor tests

The following particularities must be considered after switching on the emergency mobile phone by pressing the emergency call button and for the regular sensor tests after expiry of the sensor monitoring time interval:

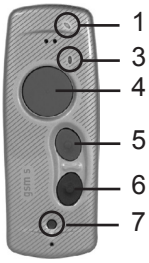
- **After switching on the emergency mobile phone with the emergency call button,**

  the emergency mobile phone will log in to its mobile radio network as quickly as possible without performing a sensor test and release an emergency call. The request to perform a sensor test is only given after the regular sensor test period has elapsed for the first time.
- **During sensor test procedure you cannot make or accept calls**

  because the voice connection buttons no. two and three are blocked. Incoming calls will be rejected.

Frequently used functions

Switching off the emergency mobile phone



Switching off the unit is possible 60 seconds after switching it on at the earliest. Switch off the emergency mobile phone only when its use is finished or forbidden:

- **Keep the On/Off button (7) pressed for at least 3 seconds, but less than 6 seconds until, after the button tone, a long signal tone sounds,**

  or

- **Place the emergency mobile phone into an operative charger.**

The emergency mobile phone will switch itself off. The operational status indicator (1) will go out.

„Forced switching-off“ of emergency mobile phone

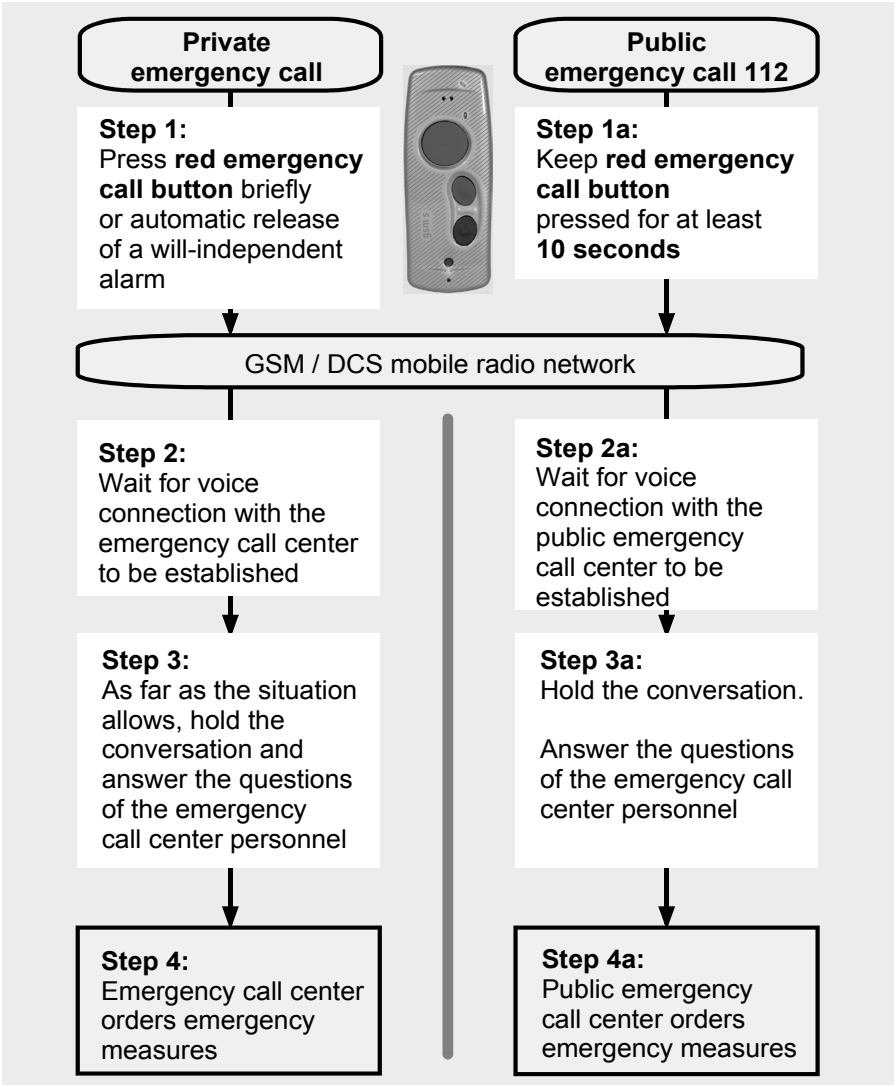
If the switching-off function described above does not work, you can switch off the unit „by force“:

- **Keep the On/Off button (7) pressed for at least 6 seconds until the operational status indicator (1) goes out.**
- **Place the emergency mobile phone into an operative charger.**

Emergency functions – Operation

How to operate the private and public emergency call system (SOS call)

The following figure shows the sequence of events for a private and a public emergency call including setting-up of a voice connection.



Emergency functions – Overview

Overview of emergency functions and alarm types

- One user initiated alarm type and up to three automatic initiated alarm types are available for releasing emergency calls.
- Emergency mobile phones of the **gsm s plus** and **gsm s Ex plus** type are able to receive, evaluate, store and forward special beacon transmitter signals. The beacon transmitter signal and the known location of the beacon transmitter provide an additional localization information that is transmitted either to the addressee of an emergency call together with a status message / an emergency call or, every time after receiving a beacon transmitter signal as a guard control message, to an operator console.
- The user initiated alarm type can only be released by a deliberate and intentional action on the emergency mobile phone.
- The automatic initiated alarm types are released by certain situations the person carrying the emergency mobile phone is in. Of course, you may release an automatic initiated alarm „deliberately“ or „accidentally“ by creating the alarm condition.
- The life check allows checking the reachability of the emergency mobile phone from the operator console. When no more life check messages from the emergency mobile phone are received, the operator console can start a search for the reason and prepare emergency measures.

User initiated personal alarm - emergency call alarm

Alarm release is by pressing the red emergency call button (keep button pressed for approx. 3 seconds).

Caution:

When you keep the emergency call button pressed for more than 10 seconds, a public emergency call (SOS call [1]) is released.

Automatic initiated personal alarms

The position and the handling of the emergency mobile phone release

[1] The SOS call is deactivated ex works. Preconditions for use: The SOS call must have been activated and configured. The emergency mobile phone is actually switched on.

Emergency functions – Overview

the automatic initiated alarm types provided the alarm type in question has been enabled and configured. There is always a so-called **pre-alarm time** between the identification of the alarm condition and the transmission of the automatic initiated personal alarm from the emergency mobile phone to the addressee; this pre-alarm time announces the upcoming personal alarm to the owner of the emergency mobile phone.

During this pre-alarm time, the owner of the emergency mobile phone can avert the release of the personal alarm by removing the alarm condition.

List of automatic initiated personal alarms with alarm condition:

- **Tilt alarm**

  Alarm condition: Unit inclined by more than 45 ° ± 15 °.
- **No-motion alarm**

  Alarm condition: No motion of person / emergency mobile phone during a defined period.
- **Time alarm**

  Alarm condition: On/Off button (or any other button) is not pressed within a certain period (dead man period).

Localisation information by the beacon transmitter signal

Reception of a beacon transmitter signal allows the following functions:

- **Object localisation** (localisation of individual beacon transmitters)

  Transmission of the most recently received beacon identification (as a number or a location) upon release of an emergency call.

  Transmission of the 10 most recently received beacon identifications max., following a specific request from the operator console.

  or
- **Guard control message**

  (a sequence of beacon transmitter localisations)

  Immediate transmission of a received beacon identification to an operator console.

Further information is available on pages 35-36 and in the „Configuration overview“ section.

Emergency functions – Overview

Life check

The life check consists of the regular and cyclical transmission of a life message to the operator console by SMS. As an alternative, a call to the emergency call center at regular intervals can be configured as a life check. The call is considered successful as soon as the emergency mobile phone receives a call-connected signal and hangs up.
If the target number is busy, the call is repeated after an arbitrarily determined time.

What is the configuration of the emergency mobile phone? Which emergency functions are available?

There are several ways how to configure an emergency mobile phone:

- **Basic ex works configuration**

  In the simplest case, the emergency mobile phone has a basic ex-works configuration. Details of the basic configuration can be found in the annex.

- **Customised ex works configuration**

  In this case, you have specified your desired configuration [1] when ordering the emergency mobile phone. Your emergency mobile phone will include a customised ex works configuration when delivered.

- **Individual configuration of an emergency mobile phone**

  Prepare the configuration [1]. Then consult the person in charge of the emergency call center [2] and have executed your desired configuration.

---

[1] This requires that the possible configurations are known and that the configuration data are prepared accordingly. Consult your dealer or the service staff at our branch office. A list of possible configurations (parameter list) is available in the annex.

[2] The GSM-PNA application software used at the emergency call center provides configuration support for the emergency mobile phones.

Emergency functions – Signallings

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Summary of signallings

The emergency mobile phone signals important events by acoustic and visual signals and by a built-in vibration alarm [1].

A list of these signallings and their meanings is given below.

The bar length ▬ represents a signal duration of approx. 0.1 seconds, the bar length ▬▬▬▬▬ a signal duration of approx. 0.5 seconds.

Request for sensor test

- Acoustic signal:
  ▬ ▬ ▬ 1 s pause ▬ ▬ ▬ . . .
- Visual signal: Emergency call status indicator flashes eight times per second
- Vibration alarm: A brief vibration alarm activity (pulse) every 3 seconds

During the sensor test

- Acoustic signal:
  ▬ 1 s pause ▬ 1 s pause ▬ . . .
- Visual signal: Emergency call status indicator flashes eight times per second
- Vibration alarm: No signalling

Pre- alarm

- Acoustic signal:
  ▬▬▬▬▬ ▬▬▬▬▬ 1 s pause . . .
- Visual signal: Emergency call status indicator flashes three times per second
- Vibration alarm: Vibration alarm repeating slowly and regularly

Personal alarm

- Acoustic signal:
  ▬▬▬▬▬ ▬▬▬▬▬ ▬▬▬▬▬
  then 1 s pause . . .

[1] Note: The standard versions of the emergency mobile phone are equipped with a second loudspeaker on the back and a vibration alarm.

Emergency functions – Signallings

- Visual signal: Emergency call status indicator lights up until the personal alarm is reset
- Vibration alarm: Vibration alarm repeating quickly and regularly

Signalling when connection with mobile radio network is lost [1]

- Acoustic signal:
  ▬▬▬▬▬ 10 s pause ▬▬▬▬▬ 10 s pause . . .
- Visual signal: GSM status indicator flashes once per second (searching for a mobile radio network)
- Vibration alarm: A brief vibration alarm activity (pulse) every 10 seconds

Signalling when connection with mobile radio network is restored [2]

- Acoustic signal:
  ▬▬▬▬▬ ▬▬▬▬▬ ▬▬▬▬▬ as a unique signalling
- Visual signal: GSM status indicator flashes briefly once, then continues flashing slowly (unit has logged into a mobile radio network)
- Vibration alarm: One single brief vibration alarm activity (pulse)

Signalling when a localisation identification is received [3]

- Acoustic signal:
  ▬▬▬▬▬▬▬▬▬▬▬▬ for 1 second as a unique signalling
- Visual signal: No signalling
- Vibration alarm: One single brief vibration alarm activity (pulse)

---

[1] Loosing the connection to the mobile radio network only will be signaled, if the connection remains interrupted longer than 60 seconds. However, the recovery of a lost connection will be signaled in either case.

[2] A recurring signal due to a reconnection to the mobile radio network may take place without a preceding signal due to a connection failure. If this happens, you should be aware of a poor mobile radio network coverage!

[3] Signalling of localisation reception is configurable (On / Off).

Emergency functions – Preparing the use

Preparing the use

Check usability of emergency mobile phone (visual inspection) and perform sensor test

Check if the unit has suffered any external damage on the housing and the controls and perform the sensor test. You may use the emergency mobile phone only if there are no objections and if the sensor test has been successful.

After a successful sensor test, the unit reacts to all activated alarm types.

Observe the safety instructions provided in this manual!

Fastening the emergency mobile phone to the clothing

Directly after performing the visual inspection and the sensor test, you should fasten your emergency mobile phone securely to your clothing, using the clip or a suitable bag. Hold the unit in a vertical position while fastening it and do not move it too slowly (position and no-motion alarms).

If your unit, despite all caution applied while fastening it, sounds a pre-alarm with a signalling pattern of

▬▬▬▬▬ ▬▬▬▬▬ 1 s pause . . .

you can remove the alarm condition (see page 26) and consequently the pre-alarm by changing the position and the handling accordingly in order to avert an unintended personal alarm.

We recommend fastening an emergency mobile phone having no clip to the clothing using the carrying bag no. 5 010 117 500, so that in particular the tilt alarm and the no-motion alarm are released reliably.

There is no carrying bag available to be used with explosion-proof mobile phones in hazardous areas.

Attention: In hazardous areas, only explosion-proof emergency mobile phone **with a clip mounted** may be used.

See also the sections „Safety instructions“ and „Accessories“.

When using third-party carrying bags together with explosion-proof emergency mobile phones, the ⟨Ex⟩ operating permission for the

explosion-protected emergency mobile phone will expire.

Emergency functions – Terminating the use

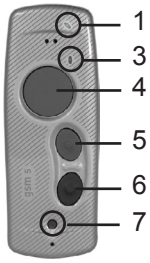
Terminating the use

- Remove the emergency mobile phone from the clothing / bag.
- Inform the operator console / the addressee of the emergency calls about the upcoming end of use.
  This step is particularly important if the emergency mobile phone transmits a regular life check message during its use. Otherwise, the operator console might interpret the absence of a life check message after the unit has been switched off as an emergency situation and cause an alarm.

  Note:
  This checkout information for the operator console / the addressee of the emergency calls may take place as follows:
  - Manually by a telephone call
  - Automatically by prior activation of the so called „switch-off SMS“ (checkout-SMS).
- Place the emergency mobile phone into a charger. It will switch itself off.

Emergency functions – Releasing an emergency call

Releasing an emergency call with the emergency call button (emergency call alarm)



▶ **Press the red emergency call button (4) briefly. Emergency calls can be released even when the emergency mobile phone is switched off!**

A signal tone sounds and confirms that the emergency call is being transmitted. The emergency mobile phone sets up a voice connection with the emergency call center.

In addition, the emergency mobile phone transmits the emergency call information to the emergency call center by SMS. This SMS is either evaluated electronically by an application program on a computer or displayed as a plain text SMS on a mobile phone.

The emergency call center accepts the call and will talk to you. In case the emergency call center does not accept your call, you can have an emergency call forwarding configured.

▶ Use your emergency mobile phone like a normal mobile phone for talking.

By pressing the voice connection button no. two (5), you may change over from handsfree talking / open listening [1] and normal conversation.

Connection indicator

While an emergency call voice connection is active, the green and the red LEDs (1) and (3) will light up.
The emergency call button (4) is blocked and cannot be pressed one more time while the emergency call voice connection is active.

Terminating the conversation

The emergency call center terminates the conversation by hanging up.

▶ You may terminate the conversation yourself by pressing the voice connection button no. three (6) [2].

[1] See footer on the next page.

[2] Terminating an **emergency call** using the voice connection button no. three must be enabled by suitable configuration.

Emergency functions – Releasing an emergency call

Releasing the tilt alarm, no-motion alarm or time alarm

The three alarm types tilt alarm, no-motion alarm and time alarm are available only if they have been enabled (activated) and configured before.

They are automatic initiated alarm types since they are usually not activated by a deliberate action of the person carrying the unit, but by one of the so-called alarm conditions, i.e. „Unit inclination“, „Absence of motion“ and „No button is pressed“.

- **The sensor identifies the alarm condition of a tilt alarm, no-motion alarm or time alarm**

  A pre-alarm signal sounds and announces the upcoming release of a personal alarm.

- When you remove the alarm condition during the pre-alarm signalling (putting the unit to a vertical position, moving the unit, briefly pressing the dead man‘s button, i.e. the On/Off button) or reset the pre-alarm by pressing the voice connection button no. three (6), pre-alarm signalling stops and the personal alarm is averted.

  The unit is now ready again for a new alarm.

- **If you do not remove the alarm condition during pre-alarm signalling, the unit will release a personal alarm. Pre-alarm signalling stops and personal alarm signalling starts.**

  The emergency mobile phone sets up a voice connection with the emergency call center.

  In addition, the emergency mobile phone transmits the emergency call information to the emergency call center by SMS.

- The emergency call center accepts the call and will talk to you in handsfree talking mode [1] (open listening, handsfree talking).

- Talk to the emergency call center personnel.

  By pressing the voice connection button no. two (5), you may change over from handsfree talking / open listening [1] and normal conversation.

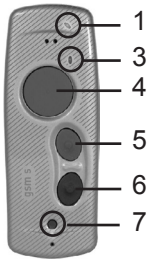
---

[1] Never move the loudspeaker opening directly near your ear while in handsfree talking mode! The high volume near your ear may cause permanent hearing damage.

Emergency functions – Releasing an emergency call

Connection indicator

- While an emergency call voice connection is active, the green and the red LEDs (1) and (3) will light up. The emergency call button (4) is blocked and cannot be pressed one more time while the emergency call voice connection is active.



Terminating the conversation

- The emergency call center terminates the conversation by hanging up.
- ▶ You may terminate the conversation yourself by pressing the voice connection button no. three (6)[1].

[1] Terminating an emergency call using the voice connection button no. three must be enabled by suitable configuration.

Remember: Never move the loudspeaker opening directly near your ear while in handsfree talking mode! The high volume near your ear may cause permanent hearing damage.

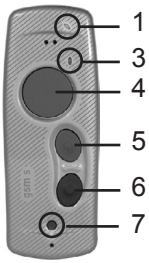
Emergency functions – Other functions

Cancelling the emergency call (option)

An accidental release of an emergency call can be cancelled [1] as long as the emergency call voice connection has not been accepted by the called party (attendant, emergency call center) and the waiting time until the emergency call is forwarded has not elapsed yet.

▶ **Keep the voice connection button no. three (6) pressed for at least 3 seconds [2].**

The emergency call has been cancelled.



Resetting a personal alarm

Resetting of the personal alarm depends on the configuration of the emergency mobile phone:

- The personal alarm signalling falls silent either at the end of the emergency call voice connection or ...
- The personal alarm signalling falls silent after the voice connection button no. three (6) is pressed.

Localisation using the beacon identification reception

Pre-conditions: Using emergency mobile phones of the **gsm s (Ex) plus** type together with beacon transmitters of the type **gso**, **gso v**, **gso va** and **gmt**.

There are two possible uses:

- **Localisation of emergency mobile phone upon release of a personal alarm (localisation in case of alarm).**

When passing by a beacon transmitter, the emergency mobile phone identifies its beacon identification for the first time and then every change of beacon identification, signals first-time-reception or change by a beep (disengageable) and saves the identification. Up to 10 different identifications can be stored. Every additional identification received deletes the oldest identification from the memory. The last, i.e. most recent identification is transmitted to the emergency call center along with the personal alarm. The

[1] This option must be enabled to allow its use.

[2] The time may be configured as well.

Emergency functions – Other functions

emergency call center evaluates the identification for localisation and, if required, requests the other less recent identifications from the emergency mobile phone. Using this maximum of 10 localisation identifiers, the path covered by the emergency mobile phone at the time of the alarm can be traced. The use of this feature requires enabling of the beacon identifier reception.

- **Guard control function**

When passing by a beacon transmitter, the „Guard control“ feature identifies the beacon identification for the first time and then every change of beacon identification, signals first-time-reception or change by a beep (disengageable) and reports the identification to the emergency call center by means of an SMS.

Particular features:

- Functionality of „Beacon off-time“

  The emergency mobile phone carries two entries for each of the max. 10 stored identifications:

  – the time of the most recent SMS transmission (A) with the beacon identification to the operator console and

  – the time of the most recent reception (B) of the beacon identification.

  It then evaluates the „Beacon off-time“ separately for each beacon according to the following rule:

  If, after receiving one or several other identifications, the emergency mobile phone receives an identification already present in the memory, it will compare the time shift between time (A) of this identification entry and the time of the identical identification just received with the „Beacon off-time“ parameter. If this shift is larger than this parameter, it will transmit the renewed reception of this identification to the operator console; if the shift is smaller, this transmission is suppressed.

  This makes the emergency mobile phone suppress a permanently changing transmission of beacon identifications in the overlapping areas of the beacon radio coverage fields.

  The time (B) is saved in order to allow transmission of the time of the most recent reception of a beacon identification to the operator console when an alarm is released.

Emergency functions – Other functions

- Functionality of „Beacon off-time for all beacons“
  - The emergency mobile phone just now receives an arbitrary beacon identification and forwards it to the operator console at the point in time (A). At the same time the configured „Beacon off-time for all beacons“ starts.
  - The emergency mobile phone may receive more beacon identifications while „Beacon off-time for all beacons“ is still running. However, the emergency mobile phone does not forward any of them to the operator console due to the „Beacon off-time for all beacons“ is not yet elapsed.
  - Thus, important guard control messages (beacon identifications) may get lost during a running „Beacon off-time for all beacons“.
  - If, however, a continuous and complete record of all guard control messages (beacon identifications) received by the emergency mobile phone is required, the emergency mobile phone’s parameter „Beacon off-time for all beacons“ must be set to „zero“.
- Functionality of „Beacon repeat time“

  If after reception of a beacon identification, neither this identification nor a new identification is received within a configurable „Beacon repeat time“ and this identification is received again after that, it will be transmitted to the operator console.

The use of the „Guard control“ feature requires enabling the beacon identification reception and careful configuration of the guard control parameters in line with actual requirements.

Emergency functions – Alarm treatment

Alarm treatment by the emergency call center

The alarm is treated by the party that is to accept an emergency call. This may be an emergency call center with a PC and a GSM-PNA application software or an individual.

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Alarm treatment by an operator console with PC support

- Releasing an emergency call results in setting up a voice connection with a telephone set at an operator console and in a status message (status SMS) from the emergency mobile phone to a PC with GSM-PNA application software.
- The personnel at the operator console accepts the voice connection, clarifies the situation and orders emergency measures.
- Moreover, the GSM-PNA application software evaluates the status message of the emergency mobile phone and displays the emergency call including alarm type, date and time and, if available, the localisation details of the most recently received beacon transmitter on a monitor.
- The operator console personnel acknowledges the emergency call using the GSM-PNA application software, comments and documents the treatment and the agreed measures and terminates the emergency call.

Alarm treatment by an individual with a mobile phone

- Releasing an emergency call results in setting up a voice connection with a mobile phone of an individual and in a plain text message (plain text SMS) to the same or another mobile phone.
- The individual (the addressee of the call) may either reject the emergency call voice connection or accept it within 20 seconds [1]. If the emergency call voice connection is rejected or not accepted in time, the emergency mobile phone forwards the emergency call [2]. If emergency call forwarding is not activated, the emergency mobile phone repeats the emergency call at intervals of approx. 15 seconds.

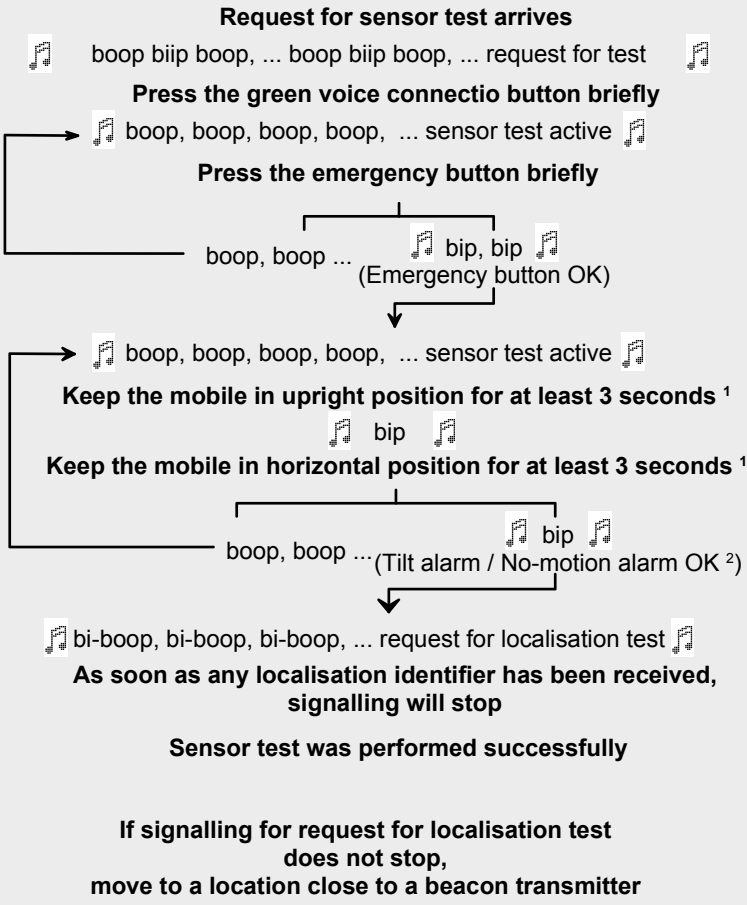
Switching on, sensor test

Switching on the emergency mobile phone

- **Remove the emergency mobile phone from the charger and press the On/Off button (7) briefly. A signal tone sounds.**

The emergency mobile phone switches itself on and requests you to perform the sensor test. Do not exceed 5 minutes time for testing.

Performing the sensor test



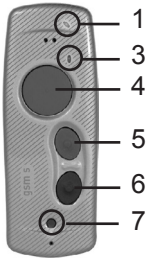
[1] Sensor tests are required for enabled alarms only!

[2] Please note: the result of the sensor tests apply to enabled alarms only!

Sensor test, emergency call release

- **As soon as this sensor test was successful, the signalling will fall silent. The emergency mobile phone searches its mobile radio network and logs in. If the sensor test has detected a fault, signalling continues like with an active sensor test. The emergency mobile phone will not log in to its mobile radio network.**
- ▶ **After an unsuccessful sensor test, repeat the test steps, following the sequence of emergency call alarm, tilt alarm, no motion alarm and localisation test.**
- ▶ **If a fault is detected again in the repeated test, switch off the emergency mobile phone and have it checked.**

Releasing an emergency call with the emergency call button (emergency call alarm)



- ▶ **Press the red emergency call button (4) briefly. Emergency calls can be released even when the emergency mobile phone is switched off!**

  A signal tone sounds and confirms that the emergency call is being transmitted.
- The emergency call center accepts the call and will talk to you.

Terminating the conversation

- The emergency call center terminates the conversation by hanging up.

Releasing the tilt alarm, no-motion alarm or time alarm

These alarm types are released by the alarm conditions „Unit inclination“, „Absence of motion“ and „No button is pressed“.

- ▶ **The sensor identifies the alarm condition of a tilt alarm, no-motion alarm or time alarm**

  A pre-alarm signal sounds and announces the upcoming release of a personal alarm.
- ▶ When you remove the alarm condition during the pre-alarm signalling (putting the unit to a vertical position, moving the unit, pressing the dead man‘s button, i.e. the On/Off button) or reset the pre-alarm by pressing the voice connection button no. three (6), pre-alarm signalling stops and the personal alarm is averted.

  The unit is now ready again for a new alarm.

Cancelling emergency call, reset alarm, making calls

▶ **If you do not remove the alarm condition during pre-alarm signalling, the unit will release a personal alarm. Pre-alarm signalling stops and personal alarm signalling starts.**

- The emergency call center accepts the call and will talk to you.

Terminating the conversation

- The emergency call center terminates the conversation by hanging up.

Cancelling the emergency call

An accidental release of an emergency call can be cancelled as long as the emergency call voice connection has not been accepted by the called parts (attendant, emergency call center) and the waiting time until the emergency call is forwarded has not elapsed yet.

▶ **Keep the voice connection button no. three (6) pressed for at least 3 seconds.**

The emergency call has been cancelled.

Resetting a personal alarm

Resetting of the personal alarm depends on the configuration of the emergency mobile phone:

- The personal alarm signalling falls silent either at the end of the emergency call voice connection or ...
- The personal alarm signalling falls silent after the voice connection button no. three (6) is pressed.

Making phone calls with the voice connection buttons

▶ **Press voice connection button (5) or (6).**

Wait for voice connection with the pre-set partner to be set up and make your phone call.

Please make a note of:

Phone no. / Name on voice connection button no. two (5)

Phone no. / Name on voice connection button no. three (6)

Making / rejecting a call, end a call, switching off

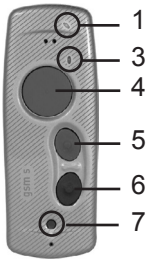
Accepting incoming calls manually

- You hear a call signal tone when being called.
- ▶ **Press the voice connection button no. two (5) to accept the call. Make your conversation.**

Automatically accepting the call from the emergency call center

When your emergency mobile phone is being called **by the emergency call center** and you neither accept the call manually nor reject it, the unit will accept the call automatically after three ringing tones in handsfree talking mode [1] (open listening and handsfree talking).

- ▶ **When you are near the emergency mobile phone, you can talk with the emergency call center without holding the emergency mobile phone in your hands.**



Rejecting a call

You hear a call signal tone when being called. You do not wish to accept the call.

- ▶ Press the voice connection button no. three (6) to reject the call.

Terminating the conversation

- The calling person terminates the conversation by hanging up.
- ▶ **You may terminate the conversation yourself by pressing the voice connection button no. three (6) if necessary.**

Switching off the emergency mobile phone

Switching off the unit is possible 60 seconds after switching it on at the earliest.

- ▶ **Keep the On/Off button (7) pressed for at least 3 seconds, but less than 6 seconds until, after the button tone, a long signal tone sounds, or**
- ▶ **Place the emergency mobile phone into an operative charger.**
- The emergency mobile phone will switch itself off. The operational status indicator (1) will go out.

[1] Never move the loudspeaker opening directly near your ear while in handsfree talking mode! The high volume near your ear may cause permanent hearing damage.

Emergency functions – Alarm treatment

- The plain text message is an additional measure for successful emergency call signalling. The following plain text messages are possible:
  - **ALARM: „Name of person in need“ has released an „alarm [3] “ „Time-Date of alarm [4] “**

    The emergency mobile phone has released an alarm and transmitted a plain text message without beacon identification.
  - **ALARM: „Name of person in need“ has released an „alarm [3] “ „Time-Date of alarm [4] “ („#Beacon identification [5] “ ; „Time-Date of beacon reception [5] “)**

    The emergency mobile phone has released an alarm and transmitted a plain text message with the most recently received beacon identification. The beacon identification is followed by the date and the time of identification reception by the emergency mobile phone.

Footers for the pages 38 and 39 as well as for the pages 40 and 45:

[1] This time may be configured.

[2] Emergency call forwarding is deactivated ex works! No call number for emergency call forwarding has been configured. Please contact the emergency call center, your dealer or the service staff at our branch office and ask for configuration assistance if you wish to use this function and have it activated.

[3] Possible alarms: Emergency call alarm, tilt alarm, no-motion alarm, time alarm

[4] Example of indicating „Time-Date“: 12:45:08 - 05.08.2004

[5] All details relating to a beacon only apply to the emergency mobile phones **gsm s plus** and **gsm s Ex plus**.
Instead of the beacon identification including the time of beacon reception, a beacon name can also be displayed along with the time of beacon reception. A maximum of 10 different beacon IDs may be configured to be displayed by beacon names in plain text.

Emergency functions – Messages

Further SMS plain text messages

Regardless of the release of an emergency call, the emergency mobile phone can transmit the following messages as a plain text SMS e.g. to a mobile phone:

Switch-on message (checkin)

- NOTE: The gsm s of „Name of person in need“ was switched on manually. „Time-Date [4] “ („Beacon name [5] “ ; „Time-Date of beacon reception [5] “)

  The switch-on message will not appear if the emergency mobile phone was switched on by pressing the emergency call button.

Switch-off message (checkout)

- NOTE: The gsm s of „Name of person in need“ was switched off manually. „Time-Date [4] “ („Beacon name [5] “ ; „Time-Date of beacon reception [5] “)

Failure message caused by an unsuccessful periodic sensor test

- NOTE: The periodic sensor test of gsm s of „Name of person in need“ failed! „Time-Date [4] “.

  The periodic sensor test was not carried out in time or failed.

Life check message

- NOTE: The gsm s of „Name of person in need“ transmits a life check message. „Time-Date [4] “ („Beacon name [5] “ ; „Time-Date of beacon reception [5] “)

  The emergency mobile phone has transmitted a life check message automatically. If the unit fails to transmit this message although the life check function is activated, the emergency mobile phone is not operative any more. It has been switched off, is defective or has left the radio coverage area of the mobile radio network provider.

Releasing a battery warning

- NOTE: The battery in the gsm s of „Name of person in need“ is almost empty – please recharge. „Time-Date [4] “

  The battery charge of the emergency mobile phone has fallen to below 20%. The emergency mobile phone should be placed into the charger without delay in order to recharge the battery.

To be continued on page 45 ...

Emergency functions – Messages

continued from page 40 ...

- NOTE: The battery in the gsm s of „Name of person in need“ is empty! The unit will switch itself off. „Time-Date[4] “

  The battery of the emergency mobile phone is exhausted. Further emergency calls are not possible. Have the emergency mobile phone inspected immediately and placed into the charger in order to recharge the battery.

Guard control messages

(option for **gsm s plus** or **gsm s Ex plus** emergency mobile phones)

- NOTE: The location of „Name of person in need“ is at („Beacon name[5] “ ; „Time-Date of beacon reception[5] “)

Battery warning for a beacon

(option for **gsm s plus** or **gsm s Ex plus** emergency mobile phones)

- NOTE: The battery in beacon („Beacon name[5] “) is weak! „Time-Date of beacon reception[5] “

For footers see page 39

Making phone calls with the voice connection buttons

Setting up an outgoing connection

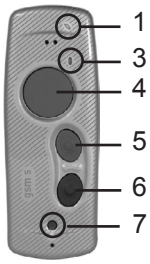
The voice connection buttons (5) and (6) are configured to those call numbers that were entered during the last configuration.

▶ **Press voice connection button (5) or (6)**

Wait for voice connection with the pre-set partner to be set up.

Hold the conversation.

- The called person terminates the conversation by hanging up or
- ▶ Press the voice connection button no. three (6) briefly in order to terminate the call.



Accepting incoming calls manually

The emergency mobile phone has its own phone no. and can be called from any other telephone or mobile phone. Your mobile radio network provided has informed you about this call no.

- You hear a call signal tone when being called.
- ▶ **Press the voice connection button no. two (5) to accept the call.**
- Use your emergency mobile phone like a normal telephone for talking.
- The calling person terminates the conversation by hanging up or
- ▶ **Press the voice connection button no. three (6) briefly in order to terminate the call**
- The green LED (1) lights up permanently during a conversation.
- The red LED (3) lights up during an emergency call or during a call from the emergency call center.

Switching over between a normal conversation and handsfree talking mode

- You hold a normal conversation and have the emergency mobile phone near your ear.
- ▶ **Move the emergency mobile phone a distance away from your ear and press the voice connection button no. two (5)**
- The emergency mobile phone will switch over to handsfree talking mode (open listening [1] / handsfree talking). You may now talk to the other person without holding the emergency mobile phone near your

Making phone calls with the voice connection buttons

ear.

- When you press the voice connection button no. two (5) one more time during handsfree talking, the emergency mobile phone will go back to normal telephone mode.

Automatically accepting the call from the emergency call center

When your emergency mobile phone is being called by the **emergency call center** and you neither accept the call manually nor reject it, the unit will accept the call automatically after three ringing tones in handsfree talking mode [1] (open listening and handsfree talking).

- **When you are near the emergency mobile phone, you can talk with the emergency call center without holding the emergency mobile phone in your hands**

  While this connection is active, releasing an emergency call using the emergency call button (4) is blocked because you are already connected with the emergency call center.

Rejecting a call

You hear a call signal tone when being called. You are busy and do not wish to accept the call.

- **Press the voice connection button no. three (6) to reject the call.**

Terminating the conversation

- The calling person terminates the conversation by hanging up.
- **You may terminate the conversation yourself by pressing the voice connection button no. three (6) if necessary**
- The green LED (1) flashes again (slow flashing indicates availability of the mobile radio network).

---

[1] Never move the loudspeaker opening directly near your ear while in handsfree talking mode! The high volume near your ear may cause permanent hearing damage.

Power supply

The emergency mobile phone battery

The emergency mobile phone is equipped with a rechargeable lithium-ion battery.

Putting the charger into operation:

The charger serves as a rack for the emergency mobile phone and as a charging unit for the built-in battery.

- ▶ Connect the small connector of the plug-in power supply unit with the socket on the back of the charger.

  Connect the plug-in power supply unit with a 230 V socket outlet.
- ● The indicator LED on the charger lights up green and thus indicates that it is ready to operate.

Charging the battery, evaluating the battery charge indicator

1) ▶ Place the emergency mobile phone into the charger.

   If the mobile is in use at this moment, it will check out [1] and switch itself off as soon as it is placed into the charger.

   - ● If the charging indicator on the emergency mobile phone lights up yellow, the battery is going to be charged. Continue with 2).
   - ● If the charging indicator on the emergency mobile phone does not light up yellow, check the electrical contacts between mobile and the charger and clean the charging contacts.
   - ● Go back to 1). If the charging indicator does not light up after having restarted the procedure, have the emergency mobile phone and the charger checked by an authorised service.

2) ▶ Check the charging indicator again after a charging time of approximately 4 hours (8 hours for explosion-proof devices).

   - ● If the charging indicator on the emergency mobile phone lights up green, the charging process is running properly. The battery is fully charged now.
   - ● If, however, the charging indicator on the emergency mobile phone still lights up yellow, remove the emergency mobile phone from the charger and wait for some seconds. ... Then ...

[1] The automatic check out is configurable!

Power supply

- Go back to 1). If the charging indicator on the emergency mobile phone does not light up green by the third charging attempt, have the mobile checked by an authorised service.

Operating time

The fully charged battery provides power for at least 20 hours without calls (standby) at the same location or at least 90 minutes of continuous conversation.

When the charge level drops below 20 % of the battery capacity, the charge indicator on the emergency mobile phone starts flashing yellow (◎). In addition, the emergency mobile phone transmits an automatic „Battery warning“ SMS message regarding the charge condition to the emergency call center.

In this condition, the emergency mobile phone can be operated for another 4 hours maximum. We recommend charging the battery as soon as possible.

Monitoring of battery charge

Charge condition	**Battery charge indicator**	**This is what you should do**
Battery partially charged (less than 20 %)	flashing yellow	Charge battery as soon as possible
Battery is being charged	continuous yellow light	Leave the unit in the charger if possible
Battery fully charged	continuous green light	Leave the unit in the charger or remove it if required
Error occured during charging	off	Remove the unit from the charger and then insert it again

Exhausted battery / protection against total battery discharge

When the battery is empty, a short signal tone sounds and the yellow battery charge indicator and the green operating status indicator will go out.

The emergency call center receives an SMS saying that the battery is

Power supply

empty and the emergency mobile phone will switch itself off.

The battery is protected against deterioration by total discharge. However, the battery has a limited service life and should be replaced every two years. See „replacing the battery“.

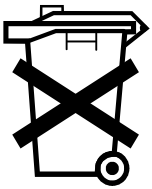
GB

Replacing the battery

A lithium-ion battery has a typical service life of roughly two years and can usually be re-charged and discharged several hundred times.

One battery charge allows operational readiness for at least 20 hours. When the operation time starts getting clearly shorter, the battery must be replaced.

The battery may be replaced by the manufacturer only. Contact your dealer.



Used batteries must not be disposed of in household waste, but must also be returned to a special waste collecting point for environmentally compatible disposal. See also section „Safety information“, paragraph „Disposal of emergency mobile phone“ on page 7.

Care, maintenance, ambient conditions

Care

Use a soft, clean cloth for cleaning the unit.

Do not use any solvents.

Maintenance

A lithium-ion battery has only a limited service life. Have the battery chekked by authorised service personnel every two years. If the operating time of the unit with a fully charged battery has decreased clearly the battery must be replaced.

There are no user-serviceable parts inside the emergency mobile phone, the base station and the plug-in power supply unit.

Opening these units and any interventions into the units are allowed only to authorised service personnel.

Configuration

Check every new configuration of your emergency mobile phone by making some test calls [1] and test emergency calls [1]!

Ambient conditions

Your emergency mobile phone is equipped with a sturdy housing, shockproof and water-protected.

Nevertheless, protect your unit against wetness, strong heat (e.g. solar radiation behind glass) and dirt.

Allowed temperature ranges:

Operation:	– 10 °C to + 55 °C (explosion-proof versions – 10 °C to + 40 °C)
Charging the battery:	0 °C to + 40 °C
Storage [2]:	– 20 °C to + 60 °C

[1] Costs according to the fees charged by your network provider are incurred as a result of the test calls and test emergency calls.

[2] Storage at + 60 °C for 1 month max.; at + 25 °C for 12 months max.

Technical data

gsm s, gsm s plus, gsm s Ex and gsm s Ex plus emergency mobile phones

The **gsm s Ex** and **gsm s Ex plus** emergency mobile phones are the explosion-protected versions.

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Dimensions:	115 mm x 43 mm x 26 mm; plus clip
Weight of Handset:	110 g (clip included)
Degree of protection:	IP 65 (dust-tight and protected against water jets)
Type of battery:	3.7 V lithium-ion battery
Operating time (with fully charged battery):	Talking: 1,5 hours for all versions; Standby **gsm s**: approx. 48 hours; Standby **gsm s Ex**: approx. 40 hours; Standby **gsm s plus**: approx. 24 hours; Standby **gsm s Ex plus**: approx. 20 hours
Charge time:	approx. 4 hours **gsm s Ex (plus)**: approx. 8 hours
Frequency ranges:	GSM dual band 0,9 GHz ... 1,8 GHz ISM band for social alarms [1]: 869,2125 MHz ISM-Band for general alarms [2]: 869,6875 MHz
Radiated power:	at 0,9 GHz: 2000 mW max. (33 dBm) at 1,8 GHz: 400 mW max. (26 dBm) in the ISM band: approx. 2 mW (3 dBm)
Operating temperatures:	mobile phone: – 10 °C to + 55 °C (explosion-proof version – 10 °C to + 40 °C) charger: + 0 °C to + 40 °C
Storage temperature [3]:	– 20 °C to + 60 °C
Transport temperature:	– 25 °C to + 70 °C (with regard to the battery)

[1] Transmit frequency from the emergency mobile phones **gsms plus** or **gsm s Ex plus** to the remote control module gsf.

[2] Receiving frequency from the **gso** beacon to the emergency mobile phones **gsms plus** or **gsm s Ex plus**.

[3] Storage at + 60 °C for 1 month max.; at + 25 °C for 12 months max.

Technical data

Ringing tone volume [1]:	120 dB SPL max. directly at the sound source (loudspeaker)
Signalling tone volume [1]:	110 dB SPL to 120 dB SPL max.directly at the sound source (localisation) [1]:(loudspeaker)
Indicators:	See „Controls and displays“
Microphone:	Omnidirectional
Loudspeaker:	1 x loudspeaker on the front side [2], one additional loudspeaker on the back side [3]
Local mobile phone localisation:	Remote-controlled signal tone in the unit
Vibration alarm:	Integrated vibration alarm for call indication
Applied Standards:	EC Prototype Test Certificate explosion protection • EN 60079-0 • EN 60079-11 • EN 61241-11 Applicable standards and version information see separate sheet 50 1000 9302

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[1] SPL is the unweighted Sound Pressure Level.

[2] The loudspeaker on the front side is used for normal conversations, for the key-tones and for the signalling tones during sensor test.

[3] The loudspeaker on the back side is used for open listening and for the ringing tone (call tone).

Accessories (option)

You may acquire the following accessories from your dealer:

Beacon transmitters

gso set, order number 1 50 1048 1000 (for stationary localisation)

gso v set, order number 1 50 1048 1001 (for stationary localisation)

gso va set, order number 1 50 1048 1002 (for stationary localisation)

gmt set, order number 1 50 1029 0000 (for mobile localisation)

The beacon transmitters allow localisation of the emergency mobile phone using the beacon identification. They serve for localising the emergency mobile phone in case of an emergency call and within the framework of guard control messages.

Remote control module gsf

Order number 1 50 1003 9820

The remote control module allows alarm evaluation using a relay contact. The relay contact is actuated when the remote control module receives an alarm from an emergency mobile phone. Typical applications of the remote control module include locations without sufficient radio coverage by the mobile radio network.

Bag for the gsm s and the gsm s plus

Order number 50 1011 7500

This bag allows you to carry your emergency mobile phone **gms s** or **gsm s plus** comfortably at your belt.

Clip for the gsm s and the gsm s plus (spare part)

Order number 50 1011 7000

The clip lets you fasten your emergency mobile phone easily to your clothing. The emergency mobile phones are equipped with a clip ex works. Explosion proof emergency mobile phones may be operated with mounted clip only!

Carrying cord

Order number 7 770 030 652

The clip must be mounted on the emergency mobile phone in order to enable use of the carrying cord. The carrying cord is fastened to the clip!

Accessories (option)

Securing cord

Order number 7 770 026 482

The clip must be mounted on the emergency mobile phone in order to enable use of the securing cord. The snap-hook of the securing cord is fastened to the clip whereas its crocodile clip is fastened to your clothing.

System-compatible chargers

A complete charger comprises the actual charging station and a plug-in power supply unit and is included in the scope of supply of an **emergency mobile phone set**. The charging station and the plug-in power supply unit are available separately as well.

- **Charging station, order number 1 50 1045 8000**

  This charging station is designed for all emergency mobile phones with a vibration alarm and with a second loudspeaker on the rear.
- **Plug-in power supply unit, order number 59 0060 3566**

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Configuring the emergency mobile phone

Before using the emergency mobile phone for the first time, it must be configured according to the user's requirements. You have two options for having a configuration of your unit carried out or modified:

- Remote-controlled configuration by the emergency call center
- Manual configuration by the emergency call center
- Remote-controlled configuration or assistance by means of your dealer or the service staff at our branch office [1]

The parameter overview below informs you about the most important parameters and allows you to take down and mark the current parameters of your emergency mobile phone.

Parameter overview

To enable better understanding, the parameters are sub-divided into groups.

I User data

a **User name** (20 characters max.)

Name of the person using the emergency mobile phone.

b **Call number** [2] of emergency mobile phone (15 digits max.)

+ 4 4 .....

The emergency mobile phone can be reached at that number. You have received this call number from your network provider.

c **Manufacturing number** (10 digits)

The manufacturing number of the emergency mobile phone is provided

[1] See the product information, sales contract or sales slip for the appropriate telephone numbers.

[2] In Germany, all call numbers are entered with the international prefix „+49“ instead of the nation prefix „0“. The connection number remains unchanged.

When using the emergency mobile phone in foreign mobile radio networks, the international prefixes valid in these countries apply.

Annex

on an adhesive label on the box, on an adhesive label on the back of the operating manual and on the back of the emergency mobile phone.

d **Current password** for configuring the emergency mobile phone (8 characters max.)

The ex works password is: ABCDE.
The password is required for configuring the emergency mobile phone.

e **New password** for configuring the emergency mobile phone (8 characters max.)

Enter a new password if you wish to do so. This password is the current password for the next configuration.

II Call numbers for emergency call and voice connection buttons

a **Emergency call button number** (voice connection button no. one) for voice connection with the addressee of the emergency call (15 digits max.)

+ 4 4 .....

This is the call number with which the emergency mobile phone sets up a voice connection when you release an emergency call using the emergency call button.

b **Emergency call / status SMS call number** to the addressee of the emergency call (15 digits max.)

+ 4 4 .....

This is the call number to which the emergency mobile phone sends a message (emergency call SMS) upon release of an emergency call.

c **Call number for voice connection button no. two (green button)** for a normal voice connection with any phone / mobile phone number (15 digits max.)

+ 4 4 .....

This is the call number that the emergency mobile phone calls when you press the green voice connection button no. two.

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d **Call number for voice connection button no. three (black button)** for a normal voice connection with any phone / mobile phone number (15 digits max.)

+ 4 4 .....

This is the call number that the emergency mobile phone calls when you press the black voice connection button no. three.

Note: Ask your dealer for the call number which possibly has been entered here in ex-works condition. Emergency mobile phones for the german market for example are pre-programmed with the german service number (subject to a fee). You may have any other phone number entered and configured instead of the service number.

e **Configuration call number**
This call number defines the phone number from which configuration may be carried out **exclusively** (15 digits max.).

+ 4 4 .....

Note: Configuration data transmitted from other phone numbers are rejected. If no number is entered here (ex-works setting), configuration can be carried out from any phone number.

III Call number for emergency call forwarding

In case the emergency call center does not accept your call in time, you can make provisions and have an emergency call forwarding function to another number configured. This requires the following:

a **Activation** of emergency call forwarding

☐

Mark the field if you use emergency call forwarding.

b **Emergency call forwarding call number** (15 digits max.)

+ 4 4 .....

This is the call number with which the emergency mobile phone sets up a voice connection when you release an emergency call using the emergency call button and the emergency call center does not accept the emergency call.

Please absolutely do not have a public emergency call number, e.g.

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112, entered here! You may instead release an emergency call to the emergency call no. 112 by pressing the emergency call button for at least 10 seconds. See section „SOS emergency call number“ below.

c **Time delay** in seconds

☐ (20 to 99 seconds)

This is the max. waiting time in seconds that may pass from the first ring until the emergency call is accepted by the emergency call center before the forwarding number is dialled.

IV SOS emergency call number

An SOS emergency call is released when the emergency call button is kept pressed for more than 10 seconds. The function is deactivated ex works. The activation requires the following:

a **Activation** of SOS emergency call

☐

Mark the field if you use the SOS emergency call.

b **SOS emergency call number** (3 digits max.)

☐

This is the call number with which the emergency mobile phone sets up a voice connection when you keep the emergency call button pressed for more than 10 seconds. If necessary, you should have the public emergency call no. 112 entered here.

Note: Misuse of a public emergency call system may make you liable for paying the cost of an emergency operation!

V Localisation

Using an additional service [1] offered by the network provider or by another provider specialised in mobile phone localisation, the emergency call center can discover the location of the emergency mobile phone. This feature requires the following:

---

[1] The use of such an additional service (Location Based Service) may cause further costs. Consult your network provider or your dealer.

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a **SMS forwarding** for enabling of network provider services must be activated. (0 = no SMS forwarding; 1 = SMS forwarding is activated; 2 = SMS forwarding from target 1 to target 2 only)

[ ] (when SMS forwarding is active, the next two call numbers must be entered)

b **SMS forwarding target 1.** Enter the call number of the network provider here where a service (e.g. the localisation service for the emergency mobile phone) can be enabled.

[+ 4 4 .....] (15 digits max.)

c **SMS forwarding target 2.** Enter the call number of the mobile phone here that you wish to use for enabling a network provider service if necessary.

[+ 4 4 .....] (15 digits max.)

Notes:

These target call numbers must not be the same as the call number which is laid down in the emergency mobile as the one of the only device from which the emergency mobile may be configured.

If short-code dialling numbers are to be used, the preceding international area code (e.g. +44 for the United Kingdom) must not be applied.

VI Pre-alarm time, alarm types, time limits for tilt alarm and no-motion alarm

a **Pre-alarm time** in seconds
(applies to the automatic initiated alarm types only)

[ ] (0 to 99 seconds, 0 = Pre-alarm deactivated)

This is the time in seconds between the beginning of pre-alarm signalling and the release of the personal alarm. During this pre-alarm time, the personal alarm can be averted by removing the alarm condition or by pressing voice connection button no. three.

b **Tilt alarm** (automatic initiated alarm)

[ ]

Mark the field if you use the tilt alarm.

[ ] (1 to 999 seconds, 0 = Tilt alarm deactivated)

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This is the delay time in seconds (parameter **time limit tilt alarm**) that passes between the identification of the tilt alarm and the beginning of the pre-alarm, while the alarm condition remains active all the time. Observe also the section on „Emergency functions / Cancelling an emergency call“.

Note: During an active voice connection, the alarm condition for a tilt alarm is not evaluated. You can make phone calls without releasing a tilt alarm due to the typical phone position while talking!

c **No-motion alarm** (automatic initiated alarm)

☐

Mark the field if you use the no-motion alarm.

☐ (1 to 999 seconds, 0 = No-motion alarm deactivated)

This is the delay time in seconds (parameter **time limit no-motion alarm**) that passes between the identification of the absence of motion and the beginning of the pre-alarm, while the alarm condition remains active all the time. Observe also the section on „Emergency functions/ Cancelling an emergency call“.

Note: During an active voice connection, the alarm condition for a no-motion alarm is not evaluated. You can make phone calls without releasing a no-motion alarm due to the phone call!

d **Time alarm** (automatic initiated alarm)

☐

Mark the field if you use the time alarm.

☐ (1 to 259200 seconds, 0 = Time alarm deactivated)

This is the delay time in seconds (dead man time, parameter **intervall time alarm**) that passes between the last actuation of the dead man‘s button (on/off button) and the beginning of the pre-alarm (expiry of the dead man time). Observe also the section on „Emergency functions / Cancelling an emergency call“.

Note: During an active voice connection, the alarm condition for a time alarm is not evaluated. You can make phone calls without releasing a tilt alarm due to the duration of the phone call!

Annex

VII Beacon transmitter identification and guard control mode

This parameter group „Beacon transmitter identification and guard control mode“ applies only to emergency mobile phone of the **gsm s plus** and **gsm s Ex plus** types.

Please observe the following: Short blocking times increase the number of transmitted guard control messages. Long blocking times may prevent the desired reception of a beacon. It is up to you to find a useful compromise!

There are the following parameters:

a **Beacon transmitter identification**

[ ]

Enter in this field in which way you use the beacon transmitter identification:

0 Do not allow any beacon transmitter reception

1 Identify and store beacon transmitter’s identification

2 Guard control mode

b **Signalling (Beep) of beacon transmitter reception**

[ ]

Mark the field if a beacon transmitter reception shall be signalled when being received for the first time and when a change of the received beacon transmitter identification occurs. In order to do the settings refer to the parameter „muting“ which belongs to parameter group „administration“. Muting = 0 activates the beacon transmitter reception beep; all other values will deactivate this beep.

c **Beacon blocking time** in seconds

[ ] (0 to 9999 seconds)

The emergency mobile phone carries two entries for each of the max. 10 stored identifications:

- the time of the most recent SMS transmission (A) with the beacon identification to the operator console and
- the time of the most recent reception (B) of the beacon identification.

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It then evaluates the „Beacon off-time“ separately for each beacon according to the following rule:

If, after receiving one or several other identifications, the emergency mobile phone receives an identification already present in the memory, it will compare the time shift between time (A) of this identification entry and the time of the identical identification just received with the „Beacon off-time“ parameter. If this shift is larger than this parameter, it will transmit the renewed reception of this identification to the operator console; if the shift is smaller, this transmission is suppressed.

This makes the emergency mobile phone suppress a permanently changing transmission of beacon identifications in the overlapping areas of the beacon radio coverage fields.

The time (B) is saved in order to allow transmission of the time of the most recent reception of a beacon identification to the operator console when an alarm is released.

d **All beacons blocking time** in seconds

☐ (0 to 9999 seconds)

If the emergency mobile phone receives any other beacon identification after the last SMS transmission with an arbitrary beacon identification to the operator console within a configurable „Beacon off-time for all beacons“, the transmission of this beacon identification just received to the operator console is suppressed.

e **Beacon repeat time** in minutes

☐ (0 to 999 minutes)

If after reception of a beacon identification, neither this identification nor a new identification is received within a configurable „Beacon repeat time“ and this identification is received again after that, it will be transmitted to the operator console.

f **Beacon battery message**

☐

Mark the field when the emergency mobile phone forwards the exhausted beacon battery message to the emergency call center.

Annex

VIII Life Check

a **Mode**

[ ]

Enter in this field in which form the emergency mobile phone transmits the life check to the emergency call center:

0 No life check

1 Life check as a status SMS to the addresses of the emergency call SMS or

2 Life check as a voice call

Note: When configured as a voice call, the life check dials the call number of the emergency call voice connection, lets the phone in the emergency call center ring a few times and hangs up after the call-connected signal from the emergency call center is received. The emergency call center registers and logs the call, but does not accept the voice call!

When configured as a voice call, the life check does not set up an active call.

When configured as a status SMS, the life check transmits a data SMS to the emergency call SMS number that is evaluated and logged in the emergency call center.

b **Interval** in minutes

[ ] (0 to 4032 minutes)

This is the interval in minutes which, after expiry, causes the emergency mobile phone to transmit a life check.

c **Call number for life check in voice mode**
(15 digits max.)

[+ 4 4 .....]

This is the call number that the emergency mobile phone calls for a life check voice call. See also the information regarding the mode.

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IX Administration

a **Personal alarm reset**

[ ]

Enter in this field how the local personal alarm is reset on the emergency mobile phone:

0 Automatically by the emergency call center, after hanging up

1 Immediately after pressing voice connection button no. three (duration see b)

2 After pressing voice connection button no. three (duration see b), provided that the emergency call center has accepted the emergency call voice connection

3 After pressing voice connection button no. three(duration see b), provided that the emergency call center has accepted the emergency call voice connection and hung up after the call is terminated

b **Duration of pressing the button** in seconds

[ ] (1 to 99 seconds)

This is the time in seconds during which the voice connection button no. three must be kept pressed in order to reset a personal alarm on the emergency mobile phone.

c **Number of signal tones**

[ ] (0 to 99 tones)

Enter in this field how many signal tones maximum are heard until the local personal alarm signalling on the emergency mobile phone is reset.

Note: If the personal alarm is reset before the configured number of signal tones is reached, the local personal alarm signalling will also fall silent.

d **Sensor test interval**

[ ] (0 to 99 hours)

This is the interval in hours which, after expiry, causes the emergency mobile phone to request a sensor test. The value 0 deactivates the cyclic sensor test.

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e **Network loss interval**

[ ] (0 to 99 seconds)

This is the interval in seconds at which, when the network connection is lost, i.e. there is no GMS radio connection, the emergency mobile phone generates an acoustic signalling. The value 0 deactivates the acoustic signalling.

f **Remote control module**

[ ]

Enter in this field under which circumstances the emergency mobile phone is to transmit a personal alarm in addition to a remote control module:

0 Never

1 Only if no GSM network is available for transmitting the emergency call at the time when a personal alarm is released

2 Always

Note: This function is available only with **gsm s plus** and **gsm s Ex plus** units.

g **Muting**

[ ]

Enter in this field which acoustic events are to be audible on the emergency mobile phone:

0 System tones, call signalling, microphone and telephone receiver are active (including the „beacon transmitter reception beep“ when using mobile phones of gsm s plus and gsm s Ex plus types)

1 Only call signalling, microphone and telephone receiver are active

2 Only microphone and telephone receiver are active

3 System tones, call signalling, microphone and telephone receiver are active but no „beacon transmitter reception beep“ on receipt or change of beacon transmitter signal

Note: Muting = 0 activates the beacon transmitter reception beep when using gsm s plus and gsm s Ex plus; all other values will deactivate this beep. See also parameter group „beacon transmitter identification and guard control mode“.

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X Miscellaneous

a **Call melody**

[ ] (melody number 1 to 10)

Enter in this field which of the 10 possible call melodies is to be used.

b **Switch-on SMS (check in)**

[ ]

Enter in this field if the emergency call mobile phone is to transmit a status SMS to the emergency call center upon switching-on:

0 Transmit no status SMS or

1 Transmit status SMS

c **Switch-off SMS (check out)**

[ ]

Enter in this field if the emergency call mobile phone is to transmit a status SMS to the emergency call center upon switching-off:

0 Transmit no status SMS or

1 Transmit status SMS

d **Status SMS**

[ ]

Enter in this field in which form the emergency mobile phone transmits a status SMS to the emergency call center:

0 Transmit status SMS as a data message or

1 Transmit status SMS as a plain text message

Note: See introduction of „Miscellaneous“ parameter group.

e **SMSC call number** (15 digits max.)

[+ 4 4 .....]

This is the call number of the SMS C server of the network provider.

Note: Normally, the SMS C call number is on the SIM card of the network provider and is automatically transferred into the emergency mobile phone. This configuration option is therefore only used in exceptional cases.

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Note:

During reception of configuration data from the service (e. g. changing call numbers) you must not perform any actuation or manipulation on the receiving emergency mobile phone.

Before the very first configuration the status indicator LED for emergency call will flash to remind you of the missing configuration. Flashing will stop after the configuration is completed for the first time.

Annex / Notes

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Basic configuration

If no configuration was specified when ordering the unit, the emergency mobile phone will be delivered ex works in a basic configuration. The numbers given in the table correspond with those in section „Configuration overview“.

No.	Parameter group	Parameter	Ex-works setting
I	User data	a Name	no entry (John Public)
		b Call number	no entry
		c Manufacturing no.	Entered ex works
		d Current password	ABCDE
		e New password	no entry
II	Call numbers	a Emergency call button	no entry
		b Emergency call SMS and status SMS	no entry
		c Voice connection button no. two	no entry
		d Voice connection button no. three	maybe a (german) service call number or no entry
		e Configuration	no entry
III	Phone number for Emergency call forwarding	a Activation	not activated
		b Forwarding no.	no entry
		c Time delay	20 seconds
IV	Phone number for SOS emergency call	a Activation	not activated
		b SOS emergency call number	no entry
V	Localisation	a SMS forwarding	no forwarding
		b Forwarding target 1	no entry
		c Forwarding target 2	no entry

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No.	Parameter group	Parameter	Ex-works setting
VI	Pre-alarm time, alarm types	a Pre-alarm time [s]	30 seconds
		b Tilt alarm	deactivated
		c No-motion alarm	deactivated
		d Time alarm	deactivated
VII	Beacon transmitter identification and guard control mode	a Beacon transmitter identification	deactivated
		b Beacon reception beep [1]	activated
		c Beacon off-time	120 seconds
		d All beacons off-time	no off-time
		e Beacon repeat time	no repeat time
		f Beacon battery message	deactivated
VIII	Life check	a Mode	deactivated
		b Interval [min]	288 minutes
		c Call number	no entry
IX	Administration	a Personal alarm reset	automatic
		b Duration of pressing the button	3 seconds
		c Number of signal tones	0 = endlessly
		d Sensor test interval	deactivated (= 0 hours)
		e Network loss interval	10 seconds
		f Remote control module	Never (no transmission of an alarm message to the remote control module)
		g Muting [1]	All signals are audible

Annex

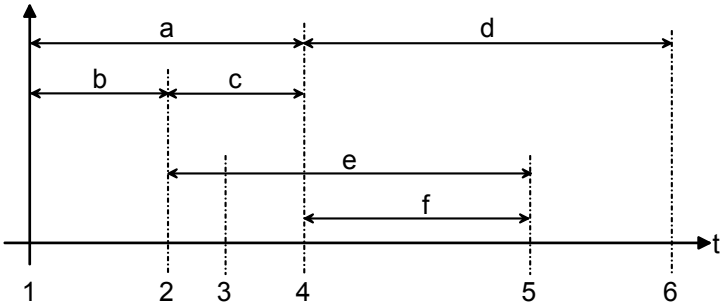
No.	Parameter group	Parameter	Ex-works setting
X	Miscellaneous	a Call melody	Melody no. 8
		b Switch-on SMS	None
		c Switch-off SMS	None
		d Status SMS	as a data SMS message
		e SMSC call number	as laid down on the SIM card

The Felsenmeer AG reserves the right to modify the ex-works basic configuration for new devices at any time without notice.

[1] Refer to the paragraph Parameter Overview for more details!

Annex

Time sequences and terms used with alarms



a The **release time**
starts with the alarm condition (1) and ends with the release of a personal alarm (4) unless the alarm condition has been removed before or the pre-alarm has been reset (3).
The release time is the total of the time limit (b) – delay time until start of the pre-alarm – and the pre-alarm time (c).

b The **delay time** – parameter **time limit** –
may be configured separately for the tilt alarm and for the no-motion alarm and does not apply to the emergency call alarm! The delay time starts with the identification of the alarm condition (1) and ends with the beginning of the local pre-alarm signalling (2) unless the alarm condition becomes invalid before. In the latter case the alarm process will be cancelled. The upcoming personal alarm remains unnoticed.

c The **pre-alarm time**
may be configured jointly for all automatic initiated alarm types and does not apply to the emergency call alarm! The emergency mobile phone announces the upcoming personal alarm during the pre-alarm time. The carrier of the emergency mobile phone can avert the personal alarm if he removes the alarm condition during the pre-alarm time or if he acknowledges the pre-alarm (3).

d The **alarm time**
starts with the transmission of the personal alarm (4) to the emergency call center and ends with resetting the alarm (6) on the emergency mobile phone or by a reset command from the emergency call center.

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e The **reaction time**
is the time that passes between the noticeable start of the alarm (2) and the arrival of the alarm in the emergency call center (5).

f The **transmit time for the alarm signal**
is the time that passes between the transmission start of the alarm (4) and the arrival of the alarm in the emergency call center (5).

1 The emergency mobile phone identifies an emergency call alarm or an automatically initiated alarm condition. At this point in time the release time starts, ending with the release of the personal alarm (4).

2 The alarm condition identified at point in time (1) still exists, the emergency mobile phone starts the local pre-alarm signalling. The reaction time is counted from this moment. Upon arrival of the alarm in the emergency call center (5), the reaction time ends.

3 The emergency mobile phone carrier reacts to the pre-alarm by removing the alarm condition or by resetting the pre-alarm. Now the pre-alarm signalling stops and the release of the personal alarm after the personal alarm time (4) has expired is averted for the time being. The point in time (3) for a pre-alarm reset only exists during the pre-alarm time (c).

4 The emergency mobile phone transmits a personal alarm to the emergency call center because neither the alarm condition has become invalid nor the pre-alarm has been reset during the release time (a). In addition, the emergency mobile phone starts the local personal alarm signalling (d) until the personal alarm has been reset.

5 Upon arrival and signalling of the alarm in the emergency call center, the reaction time ends. The personnel in the emergency call center can start emergency measures.

6 Ending the alarm by the handset always requires resetting the alarm either at the emergency call center or by user action at the emergency mobile phone which has sent the alarm.

Please bear in mind:

These explanations apply to all automatic initiated alarm types unless otherwise noted. The delay time and the pre-alarm time do not exist with

Annex

the user initiated emergency call alarm! Each user initiated emergency call alarm will result in a personal alarm directly after pressing the emergency call button!

Close-range localisation by emergency mobile phone signal tone

The emergency call center can activate a signal tone in your emergency mobile phone to make it easier for the rescue teams to locate you.

Setting date and time

The emergency mobile phone depends on actual date and time information in order to provide authentic time stamps when releasing alarms or sending messages.

For an update of its internal clock settings the emergency mobile phone needs information from the emergency call center. The needed information is part of every configuration SMS which is transmitted from the server computer of the emergency call center to the mobile.

Thus, an appropriate time setting of the server computer is mandatory.

- Updating date and time

  Once a moth the emergency call center needs to ...

  – check and update its own date and time settings and then ...

  – tramsmit an appropriate configuration data SMS to every single emergency mobile phone which is part of the emergency call system. An appropriate configuration data SMS means an SMS containing some of the the latest data which has been stored in the past for every single emergency mobile phone.

Annex

Rendition of the contents concerning the EC type test certificate issued by the testing laboratory and certification centre Zelm

You can find the test certificates under

http://www.zelm.de/index.php?id=158

Warranty / Service

Warranty

We guarantee flawless function of this unit within the framework of our current terms of sale and delivery.

This warranty does not cover disturbances, in particular including reception quality and availability of mobile radio network, as far as they occur as a result of influences from other radio services or other events and circumstances outside of our responsibility.

Service

You have purchased a high-quality product. If you experience problems in operating this product although complying with this manual, please contact your dealer or our service hotline given in the imprint.

If the unit is defective, please inform us in advance using the rma form. You can send detailed filled out rma via E-Mail to rma@felsenmeer.ch or fax it to +41 44 500 33 51.

In case of returning the product please use a suitable packing (original pakking if possible) and send it back to the communicated address.

Warranty / Service

Model, serial number, SIM card number

Imprint

Felsenmeer AG
Opfikonerstrasse 45
8304 Wallisellen
Switzerland

Service

Contact your dealer or our branch office.

Notes

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Felsenmeer AG
Opfikonerstrasse 45
8304 Wallisellen
Switzerland

Fone: +41 44 500 33 50
Fax: +41 44 500 33 51

Web: www.felsenmeer.ch
E-Mail: info@felsenmeer.ch