

# DA1450

## Your **private** Help Concept

# TeleCare DECT \* Phone for Blind Persons with Emergency Call and Fall Detection

DECT \* =  
cordless home telephony



House Emergency Call   Fall Detection   Room Monitoring   Smoke Alarm   Reminder

Blind Phone   Handsfree Phone   Telephone Book Reader   Clock Funktion

Download the PC APP on adjacent Link  
This is your personal Configuration Program

[www.PCAPP.net](http://www.PCAPP.net)

## Operation Manual

in case of, more up-to-date operating instructions can be found on Website

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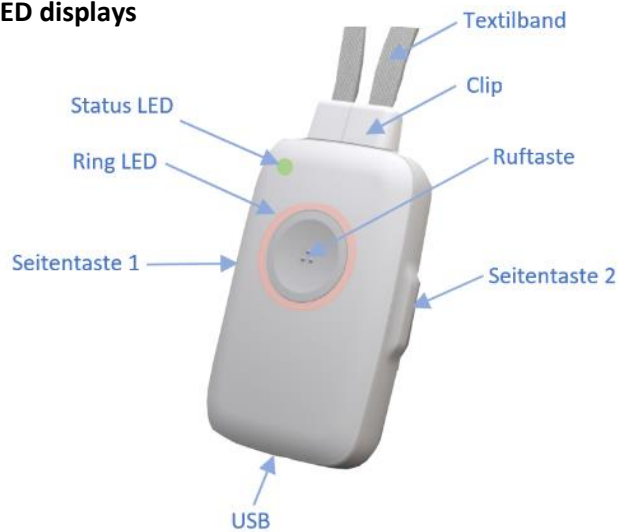
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# 1 Overview

## 1.1 Control Elements and LED displays



### Call Button

---

- Press long                    trigger Help Call
- Press short                hook Off incoming call
- terminate existing connection
- various functions according voice assistant announcements

*press Call Button leads to short RED LED and Vibrator*



### Sides Keys

---

- Press short                idle state: activate phone book
- during a call: increase volume (booster)
- Press long                 both simultaneously: switch OFF Device



⇒ Note: Switch ON Device via charging disk

**Status LED**

Status display for 2 functions: radio range and battery

**GREEN** 1-time per 20 Sec  
 both functions error-free  
 very good signal strength base station  
 and battery fully charged / sufficiently charged



**YELLOW** 1-time per 5 Sec  
 one or both functions at limits  
 Sufficient signal strength base station  
 and /or battery is still sufficiently charged



**RED** 1-time per Sec  
 one or both functions beyond limit  
 no connection to base station  
 and / or battery not sufficiently charged  
 (automatic shutdown will follow shortly )



**Ring LED**

**GREEN**  
 permanent active telephone connection  
 flashing incoming phone call  
 on charging disk  
 permanent fully charged



**YELLOW**  
 permanent USB connection to PC APP  
 flashing DECT registration in progress  
 Fall Detection checks current state  
 Device fell to the ground and is waiting  
 on charging disk  
 permanent battery sufficiently charged



**RED**  
 permanent telephone connection when calling for help  
 flashing dialing telephone number is activated  
 on charging disk  
 permanent Battery not sufficiently charged  
 Smoke Alarm detected



## 1.2 General information

Congratulations on purchasing TeleCare emergency transmitter DA1450. The product is developed and manufactured *in Germany* ( *made in Germany* ). DA1450 is a high-quality DECT telephone in miniature design and with one-button operation plus two side keys. It is designed for the elderly, people with disabilities and people with significant visual impairment.

=> **DA1450 is referred to as "Device" in the following .**

Device contains all the functions **needed to live safely** at home alone and to keep in **touch with family** and friends. For this purpose has the following features built in:

### Language Assistant

When you load the PC APP, you also specify the language of the language assistant.

It reads names from the phone book when you receive a call or when you want to call someone. It gives you valuable advice in various operational situations. In the event of a fall alarm, it informs the remote station of your situation and contact data.

### Fall Detector

Device has state-of-the-art fall detection. This is activated at the factory and does not have to be set. In the event of a fall alarm, the call for help sequence is telephoned.

### Smoke Alarm Detector

Device detects the smoke alarm of all smoke detectors on the market. This function is activated at the factory and does not need to be set. In the event of a smoke alarm, the call for help sequence is automatically telephoned. The smoke alarm is activated automatically when Device is on the charging disc (usually at night or when you are not at home)

### Manual Call for Help

It works like the familiar »red button«, but without a service center. Device the phone automatically from your help contact list, was found until contact.

### Phone Book

Up to 100 contacts can be entered with number and name. These contacts can two V out for telephoning be selected: Quick above sea over the side keys and under heavy handicap on the read-aloud function of language assistants.

The phone book also contains "missed calls" and a "caller lis

### Reminder Function

Up to 5 time-controlled reminders (e.g. "*please take medication*" ) can be set

### Clock Function

The current time is announced at the push of a button, valuable function for blind people

### Room Monitoring

You can define telephone numbers that immediately hook OFF switch when you receive a call. Similar to Baby Phone

**Commissioning Step 1:** Register Device to your DECT base station

**Commissioning step 2:** Download PC APP from the website **www.PCAPP.net** and enter your contacts and configure your personal settings

## 2 Commissioning

### 2.1 Check package contents

The packaging contains the following items:



Reference to link for loading the PC APP and language selection  
**www. PCAPP.net**

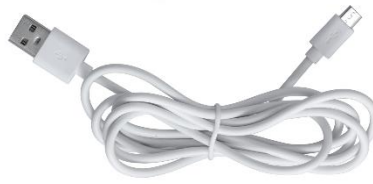
special service to blind persons:  
 The language assistant will read this website info up to 5 times

#### DECT TeleCare **DA1450**

Emergency transmitter, fall alarm, telephone for the blind, ...



charging disc (contactless charging)  
 DA1450 is switched on with charging disc



USB cable  
 Note: please use this cable  
 for configuration with PC APP



USB plug-in power supply



necklace with clip



positioning aids (bumpons)  
 for DA1450 on loading disc



Brief instructions / notes




## 2 Commissioning

### 2.2 The 3 steps of commissioning

Device is a DECT telephone (cordless telephone) with a battery that is put into operation with your DECT base station (Gigaset, Panasonic, Fritzbox, Speedport router, ...).

here are therefore no additional operating costs .

It is not a cellular Device. You don't need a SIM card.

- Step 1** Briefly **charge** Device: 10-30 minutes (use the charging disc for this)  
Device switches on after a short time when it is placed on the charging disc 
- Step 2** **Register** Device on your DECT base station  
Switch the base station to registration mode and press the call button on Device  
Then call from outside. Device rings and is ready for use. 
- Step 3** Load the **PC APP** (Internet: [www.pcapp.net](http://www.pcapp.net) ) and install it (execute SETUP)  
PC APP is an understandable configuration program for telephone numbers etc. 

### 2.3 Set up the charging disc , charge Device, switch ON device

The charging disc works without contact. Charge Device by simply placing it on the disc.

As soon as Device is correctly placed, the disc lights up.

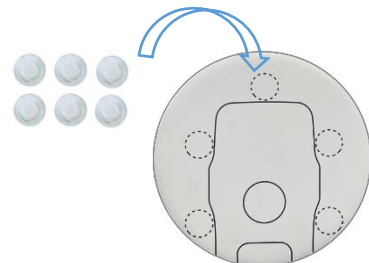


*If device is off, it can be switched ON with charging disc*



#### 2.3.1 Positioning aid on the loading disc

Self-adhesive, round rubber bumpers are included in the scope of delivery. They optionally serve as a positioning aid for Device on the loading disc. They also prevent Device from accidentally slipping on the charging disc.



#### 2.3 2 Switch on Device



*With the aid of charging disc, Device will be switched ON*

*Depending on the state of charge is the message*

*" Battery is being charged " or >douple tone< (SW V113)*

*is announced, in the case of deep discharge , delay by several minutes .*



Leave Device on the loading wheel for 10- 30 minutes.  
Device has a full charge a standby time of approximately 2.5 days. During charging, Device gets a little warm.



*When the device is taken off the charging disc, you can get the **charging status** for 1 minute. To do this, press the **call button** (SW V.113)*

#### 2.3.3 Switch OFF Device

By simultaneously **pressing both side keys** , Device can be turned off.



*You should only switch off Device in exceptional cases.*





## 2. 4 Register at DECT base station

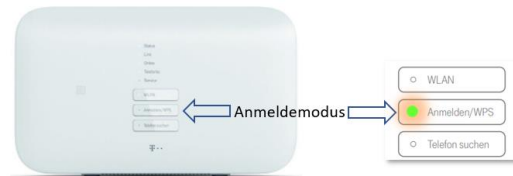
also called :Subscription

applied method: easy subscription with PIN 0000

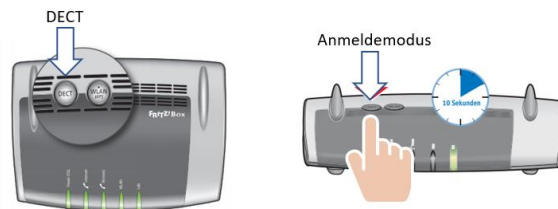
Get Device close to DECT base station, for example in the same room.  
This enables the login to be carried out more securely.

**Step 1** : Press the " **REGISTER** " button on the base station / router.

Example: Telekom Speedport Router  
with integrated DECT base station



Example: Fritzbox router  
with integrated DECT base station



Example: Gigaset, various types



Depending on the manufacturer, the activation of the » login mode « can be different. As a rule, a key must be held at the base station for a few seconds gedrückt. Often this is the paging button, which you have to hold down for several seconds (if necessary, refer to the manual of the base station for advice) Modern IP routers have built-in DECT radio and a special registration button.



*Please notice that DECT base stations remain in registration mode for only about 5 minutes. if necessary, activate registration mode again.*

**Step 2** : Press the **call button** of Device .

The ring LED starts to flash **YELLOW** and the voice assistant reports :  
» Registration activated , please wait «

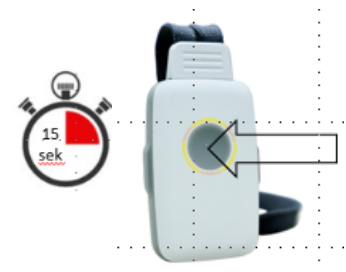
After typically 10-20 seconds Registration is completed.

The ring LED briefly lights up **GREEN**

The voice assistant reports successful registration:

" Device is connected to the base "

Now, you can take already calls!



*During Registration, make sure that Device is close to the base station (same room)  
In this way, accidental registration to neighbouring stations can be prevented.*

## 2. 4 Register at DECT base station

### 2. 4. 1 ERROR MESSAGES when registering with your base station

If the login fails , the voice assistant will give you the following information :

» **Wrong PIN** «                      Reason: The base station does not have 0000 as the registration PIN  
Remedy: Apply Registration using the PC APP  
There you can enter any PIN with up to 8 digits

" **Base not in registration mode** "  
Reason: Registration mode of the base station is not (any longer) active  
Remedy: Step 1 + Step 2

" **No base found** "  
Reason: a) Base station is not switched on  
Remedy:    Switch on the base  
  
Reason: b) Base station is too far away  
Remedy:    place Device closer to the base station



*The range of Device is approx. 50 meters in closed rooms.  
But, Device should be close to the base during registration in order to prevent incorrect registration. The range is intentionally shortened during registration.*

" **Please check base** "  
Reason: a) Too many DECT are already registered on the base  
Remedy:    De-register minimum 1 DECT Device from DECT BASE  
  
Reason: b) the base station does not allow third-party products  
Remedy:    use another base station



If Device is not registered to a base station, it switches OFF after 5 minutes .  
Place Device on the charging disc to switch it ON again.

## 2 Commissioning

### 2.4.2 Check telephone connection

Check the connection of Device with the base station and the telephone connection.

1. Call with your mobile phone
2. When Device rings, answer the call  
You are now connected and can talk to each other.



*Since Device operates in handsfree mode , there may occur acoustic feedback (whistling sounds) Therefore, you should not call or communicate with Device in the same room This is true also for Service Calls e.g. enter TIME with external call or testing Calls with the add of PC APP*

Optional you can use this calling phone number as 1st contact number.

You will be asked about this by the voice assistant after hanging up:

»Save phone number? Press the call button. «

When the call button is pressed, this number is stored in the 1st register in the 1st position.

This phone number may already for outgoing call e are used. It just does n't have a name yet . You can enter names later using the PC APP (download from [www.pcapp.net](http://www.pcapp.net))



*This 1st contact number is also used for call for help, fall detected and smoke alarms, as long as you have not yet entered any other contacts with the PC APP.*

### 2.4.3 Use new base station or change of location

It can make sense to prepare Device for setting up (telephone contacts, etc ..) and to test it beforehand. It doesn't have to be at the target person's location. You can put everything into operation somewhere else and call the telephone contacts as a test. To do this, Device must be connected to a DECT base station (REGISTER on DECT base station). Prior to sending the Device to the target person, you do not have to delete this registration (see PC APP under SYSTEM: De-registering the base station), but let the Device do it automatically .

Principle:

- Switch off Device and send/take it to the destination (target person's location)
- Switch on Device at the destination (via the charging disc)
- Bring the new base station into LOGIN MODE (see section 2.3)  
*(The former base station must no longer be visible from a wireless point of view!)*
- Question from the voice assistant: »Register new base? Press call button «
- Press Device call button (old registration is deleted) and new registration is carried out

### 2.4.4 Notes on DECT radio range

Inside buildings is the radio range (distance to the base station Device) typically 30 - 50 meters . In the garden, the range can be 300 meters be . If Device is also to cover the garden area, it is advisable to place DECT base station on the wall that is closest to the garden. If Device is outside of the base station's radio coverage for more than 5 minutes , the voice assistant will respond : "Attention: Out of range."



*Please note: If Device is not in range of the base station, it is not possible to setup phone connection. Consequently Fal lDetection alarms and Help Calls will not work!*

## 3 Settings via PC app

### 3.1 Load the PC APP (configuration program for telephoning and more)



*Please note: The PC APP is designed for computers with Windows Operating System. Microsoft*



*Your computer needs an internet connection. Open an Internet browser and enter the address **www.PCAPP.net** . This is the PC APP download page .*



*As special service to blind persons:  
Device announces the URL for download location several times:*

*"software download ... pcapp.net*



*This vocal information is available when Device is removed from the charging disk or connected to the PC with a USB cable. Once the PC APP has been loaded and connected to Device, this voice information is set. Number of announcements is limited maximum of 5 times.*

First select the language by clicking on the country flag. You choose the language of the configuration tool (PC APP) and the voice / language of the Voice Assistant of your Device. In addition, the manual and brief instructions are loaded onto your computer

Download Center : [www.PCAPP.net](http://www.PCAPP.net)



*Close any unnecessary programs on your computer, in order that Entry Boxes of the Download and Installation Programs are not inadvertently invisible.*

Download will take several minutes because of the language libraries . Please be patient.



Depending on the WIN operating system and computer settings (e.g. virus scanner) , several small queries follow, which you should confirm , as well as the license agreement .



*It may happen the Windows operating system will ask you to allow changes to your computer.*

*=> Confirm this with » YES «, otherwise the installation will be cancelled.*

*=> Do not worry, it is a standard query from the operating system*

## 3 Settings via PC app

### 3.2 Install PC APP (configuration program for telephoning and more)

Go to the PC register in which you downloaded the PC APP.

This is usually the **Downloads** tab and drive C:

Start the installation with : **SETUP**

The installation begins and is carried out by your computer operating system.



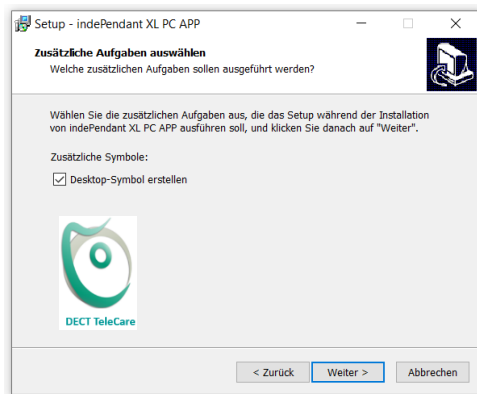
*It may happen the Windows operating system will ask you to allow changes to your computer.*

*=> Confirm this with » YES «, otherwise the installation will be cancelled.*

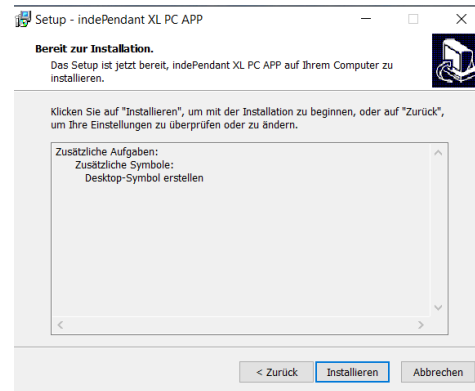
*=> Do not worry, it is a standard query from the operating system*

Installation steps:

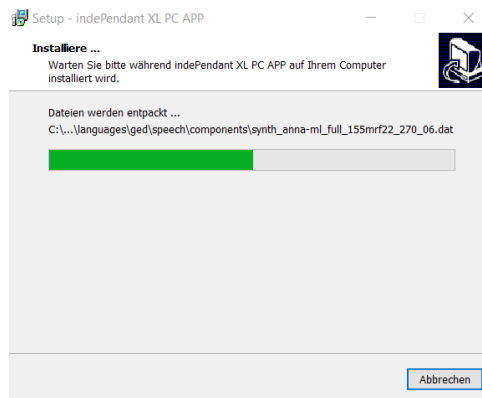
(sorry for German pictures)



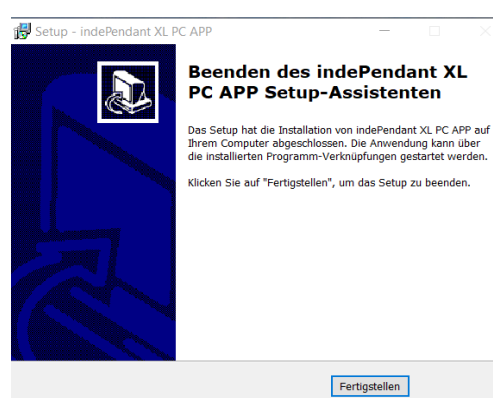
1 allow to setup a DECT Telecare ICON



2 give OK to Installation



3 Installation in progress (please wait)



4 Confirm Finalisation

After a few minutes the PC app installed and it became an icon **DECT Telecare** created on the Desktop of your PC. The installation is now complete.



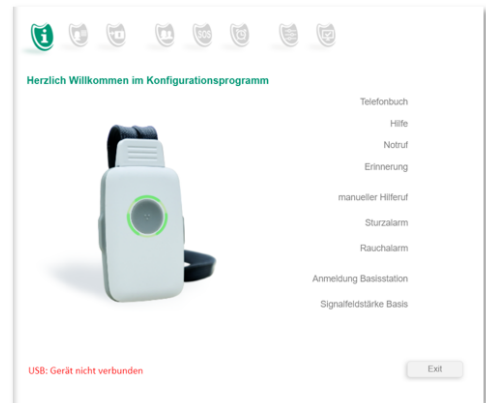
Now You have installed an easy-to-use phone number and name configuration utility. Go to the **Desktop** of your PC and open the PC APP a double click on DECT Telecare icon.

The » **PC APP** « (sorry for German pictures)

Your personal configuration program

With the PC APP you can make your personal settings for

- Personal data (name, location, access apartment)
- Phonebook for 100 entries (name + number)
- Call for help for manual, fall and smoke alarm
- Reminders with appropriate notes
- Ring tones, volume, operating modes, ...



### 3.2.1 Important information for entering and saving data



*Always confirm each page with the **APPLY** button*

Entered texts and names are converted into readable audio data and transferred to Device. This takes several minutes, depending on the amount of data. Please be patient.

Texts and names are read out for your control. To do this, you have to activate the PC loudspeaker and set it to "Loud".

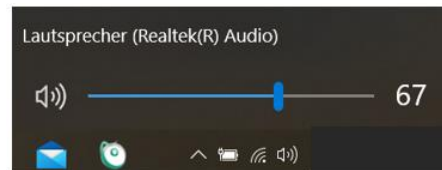


*If your PC doesn't read any texts when transmitting to Device, please disconnect Device from PC separate and check whether your PC has turned on your internal Audio loudspeaker.*

Check the application bar of your PC at the bottom right whether the internal loudspeaker is deactivated.

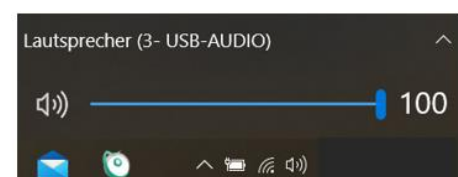


In this case you should activate PC loudspeaker and set it to wanted volume (here: 67)



*If Device is connected with USB to the PC, you only see Audio setup of speaker for the connected USB Device (USB-Audio)*

This setting is carried out automatically by the PC APP and cannot / does not have to be changed.



## 3 Settings via PC app

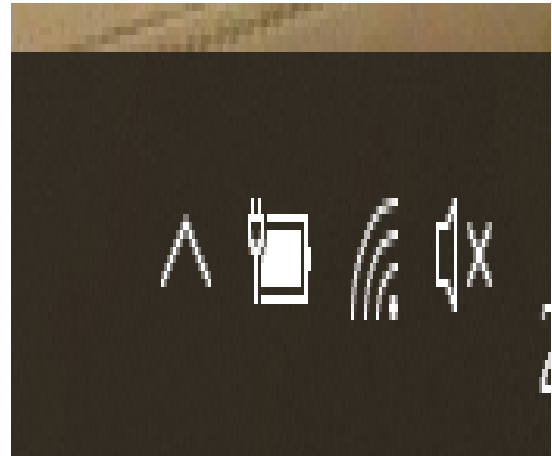
### 3.2.2 USB contact with Device manufacture

If there is no USB contact, you will see this display

**USB: Device not connected**

the PC APP remains on the start page.

Now connect Device to your PC  
using the USB cable from the charging station !



*Please note that not every USB cable is suitable. You need a USB cable with data lines , e.g. the enclosed cable for the charging disk. It cannot be lost when it is used on the loading disc.*

*Note: Pay attention to the polarity of the Micro-USB connector .*

*When changing between the charging disc and Device , you have to turn it .*



*When connecting Device to your PC for the first time, the operating system must configure the USB drivers for the TeleCare transmitter. That takes a while. Please be patient.*

*Please note that Windows must configure USB Device driver for every USB connector of the PC. It is recommended to use always the same USB connector of your PC when connecting the Device. Otherwise you must wait a few seconds till USB driver has been configured*

When Device is connected to the PC , the first action is read the data from Device and compare them with the data on the PC APP.

The LED ring of Device now lights up YELLOW and you can see the correct connection at the bottom left:

**Device connected to USB**



*If this message does not appear , unplug the USB cable and plug it in again*

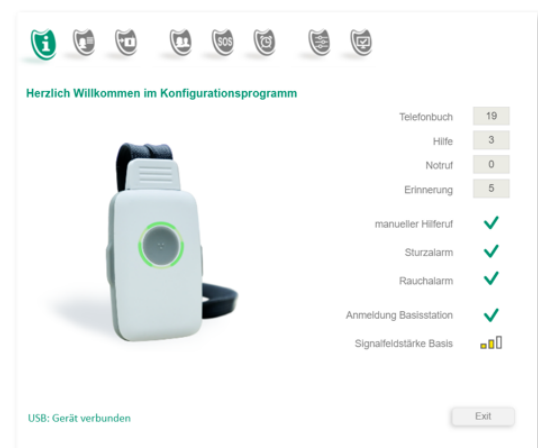
Now you can open the individual tabs and enter your personal data and contacts. Do this slowly and carefully, too. The information is usually self-explanatory. The transfer of the audio data to Device takes some time.



*The PC APP is compatible with JAWS and NVDA (screen reader for blind people)*



The picture opposite shows an example of a configuration carried out and the status of the registration to your DECT base station in small . the display of the signal field strength at the current location of Device





### 3 Settings via PC APP

#### 3. 3 info page

The info page is only used as Overview of the current status of your settings . If no data has yet been entered, you will see the factory setting.

Calls for help, fall detection, smoke alarm detection, reminders and time are activated at the factory.

You can switch these functions ON/OFF via associated pages.

In addition, the signal strength with which Device is currently receiving DECT base station is displayed in three levels.

A question mark  is displayed if

- Device not registered to base station
- Base station is switched off
- Base station is out of range



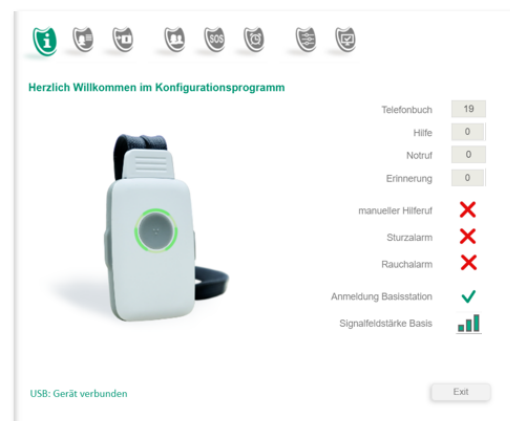
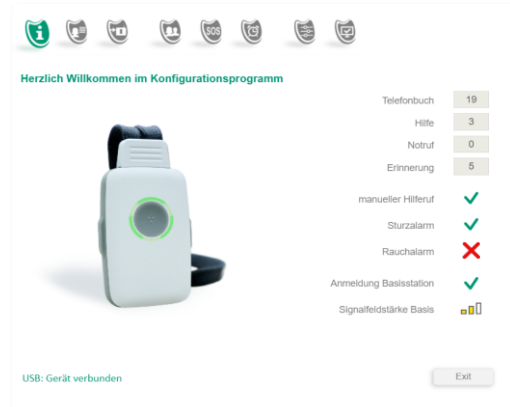
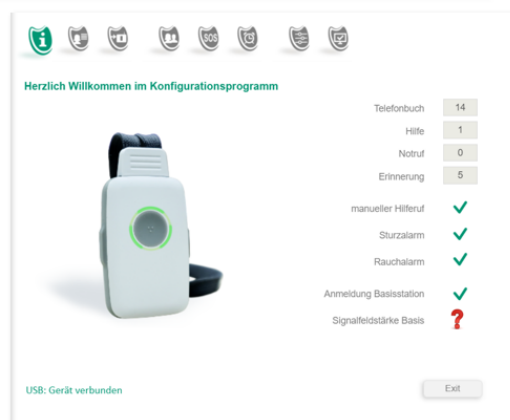
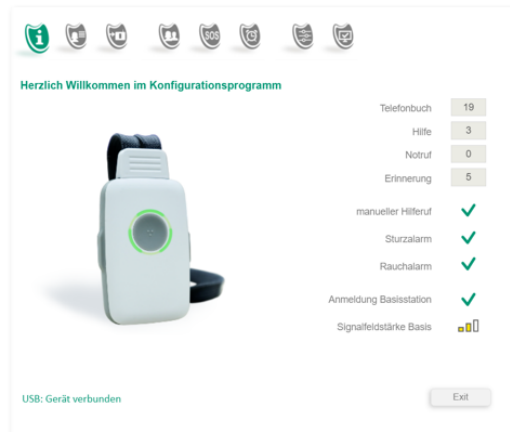
*Please note that this is the signal strength of the base station that is valid at the current location of Device. It changes at different locations in the apartment. A range of 30-50 meters around the base station is typical .*

You can make various functional settings, which the overview shows you:

#### Examples

Smoke alarm detection has been de-activated

Device is used as a phone only  
no safety functions are activated







### 3 Settings via PC app

You have the following functions available:

- Telephone book with 10 registers with 10 contacts each. A total of 100 telephone contacts.
- SOS sequence consisting of 3 help numbers and an emergency number
- The SOS sequence for manual call for help, fall alarm and smoke alarm
- Time and Reminders (time-controlled notes)

Fall Detection and Smoke Alarm Detection need not to be configured. They are immediately ready for use. Read the corresponding chapters in this manual.



*Please note that it is difficult to simulate a "real" fall. Read the special information on fall detection below in these operating instructions or the downloadable essays on DPDM fall detection on the product page in the Internet.*

*Notes to test fall detection: While standing (1.2 meters), drop Device on the floor or throw it away a few meters . Device can distinguish whether the person has fallen or just the product . In case of products fall it announces "Ouch" and prompts twice to take the Device .In case you do not take the Device, it will trigger a help sequence. The fall detection is ready for use.*

### 3. Enter 4 personal data



The " **Personal Ddata** " include the name and place of residence and optional indications, such as possible access to the apartment in case of emergency.

A 4-digit number code can be specified for a key safe . We recommend the apartment key in a key - safe with combination lock next to the door to deposit. Such combination locks are available from numerous manufacturers. Change the code when it is used.

This " Personal n data " - like all the other data of the PC APP - only locally on Device and as a backup on the PC stored.



*Your " Personal Data " are applied in case of automatic calls (fall detected, smoke alarm). The Voice Assistant (iVA) announces the reason for the call followed by reading these Personal Data: "This is a fall alarm at <Personal Data> ..."*



*Note: If calls for help are triggered manually, no iVA information is passed on. It is assumed that the person-in-concern is able to talk to the contact . An additional announcement by the iVA would only create confusion by parallel announcements.*

## 3 Settings via PC APP



### 3. 5 Registration to DECT base station

The application using the PC app is only necessary if DECT base station does not support *easy subscription* with system PIN has "0000" (see section 2.3) or a DECT PBX system is used and requires a System PIN with more than 4 points.

Please read the operating manual for DECT base station .

1. Activate the registration mode of the base station . Make sure that DECT base stations only remain in registration mode for about 5 minutes . Device must be registered within this time. if necessary, activate registration mode again.
2. Enter the **system PIN of** the base station. This can be a number with up to 8 digits. With conventional DECT stations for private use it is usually 4 digits .
3. Click now on the button **Start Registration**

The registration process can take 10-20 seconds. If Registration fails, read chap. 5.1.2 Troubleshooting / Device can not be registered on the base station. or follow below instructions:

Error messages of the Voice Assistant

#### »Wrong PIN«

- ⇒ enter correct PIN  
(consult Base station operating manual)

#### »Base not in registration mode«

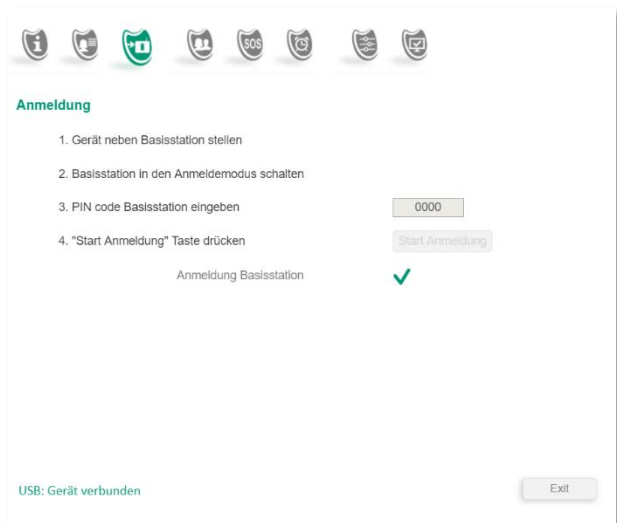
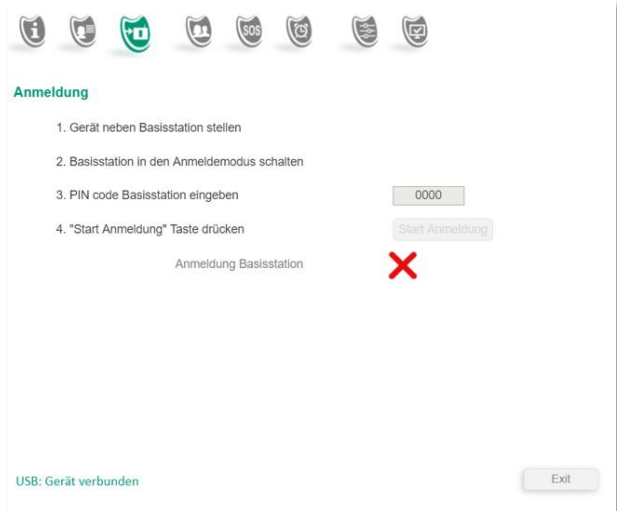
- ⇒ press Registration Button fo DECT Base  
(at least 5 seconds)

#### »No base found«

- ⇒ Place Device closer to the base station

#### »Please check base«

- ⇒ possibly too many DECT Telephones are already registered to the base station  
typically max 5-6 including DECT Telecare  
(Operating manual for the base station or web interface to log off the base station and not used DECT Devices )



### 3 Settings via PC APP

#### 3.6 The phone book



The phone numbers for "Family & Friends" shall enable to stay in touch with family and friends, but also important contacts as medical services, transportation, eat&drink services, etc. The phone book can hold up to 100 personal contacts with Name and phone Number. These are saved on Device and as a data backup on your PC under the PCAPP. Only the names are announced for incoming and outgoing calls and make calling easier, even for blind people. More in chapter 3.8 Telephoning

In order to facilitate entering contacts but especially finding a desired contact, the contact lists are divided into 10 telephone books (telephone registers), each with 10 telephone numbers and names. Use individual titles for each phone register e.g. family, friends, transport, food & drink, doctor, ...



*It is recommended that 1. telephone register is used for most frequently used contacts. They will always be called first when you want to make a phone call. You will understand this better in chapter 3.8 TELEPHONE. This first tab could be called "Favorites" or "My Favorites", for example.*

The order of the registers and the contacts should n be based on the frequency of calls to these contacts. Up to 25-digit numbers can be entered.

*Open the individual telephone registers*

open telephone registers

Register Name	Einträge bearbeiten
Favoriten	6
Familie	2
Freunde	4
Transport	2
Arbeit	5
Medizin	
Register 7	
Register 8	
Register 9	
Register 10	

Name	Telefonnummer	Prüfen
INT1	#61	Prüfen
INT1	**610	Prüfen
INT2	**611	Prüfen
Name 4	Telefonnummer 4	Prüfen
Name 5	Telefonnummer 5	Prüfen
Name 6	Telefonnummer 6	Prüfen
Name 7	Telefonnummer 7	Prüfen
Name 8	Telefonnummer 8	Prüfen
Name 9	Telefonnummer 9	Prüfen
Name 10	Telefonnummer 10	Prüfen



*Confirm each side with key **APPLY** and wait till data are transferred to Device (15-30 seconds)*



Zurück

### 3.6 Phonebook

#### 3.6.1 Telephone Registers

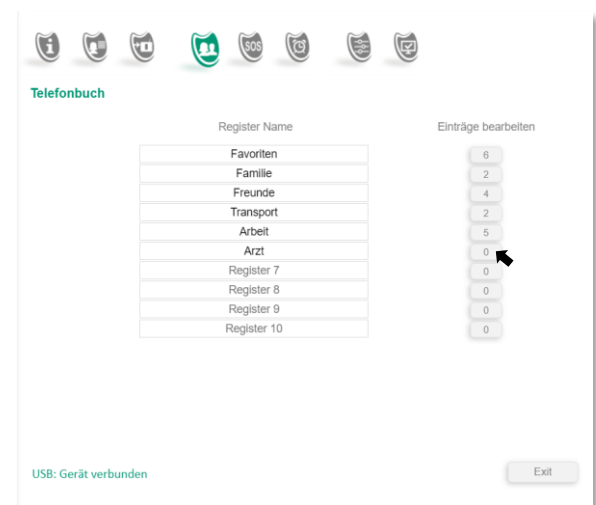
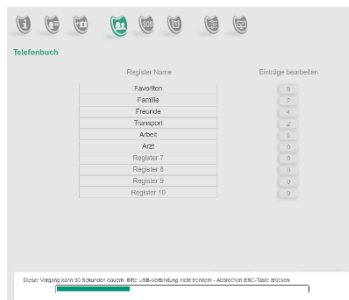
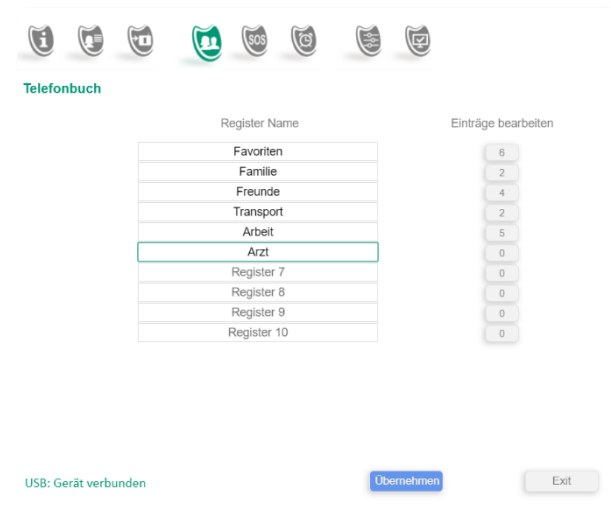
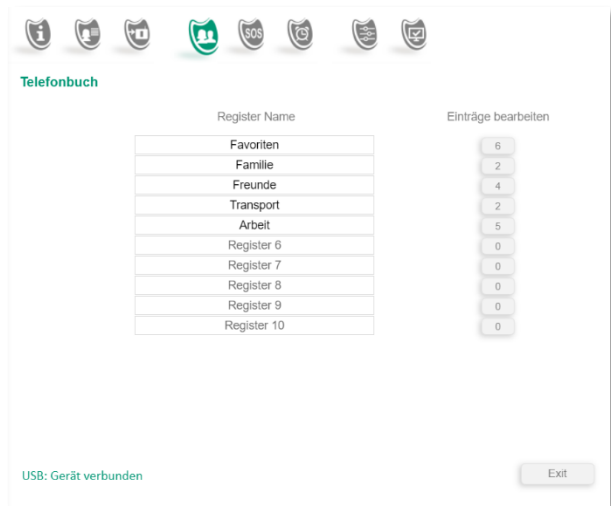
Beside these visible Registers  
The Device is self-organising  
2 more registers

>Missed calls<  
and  
>Caller list<

These two registers are managed  
independently by Device.

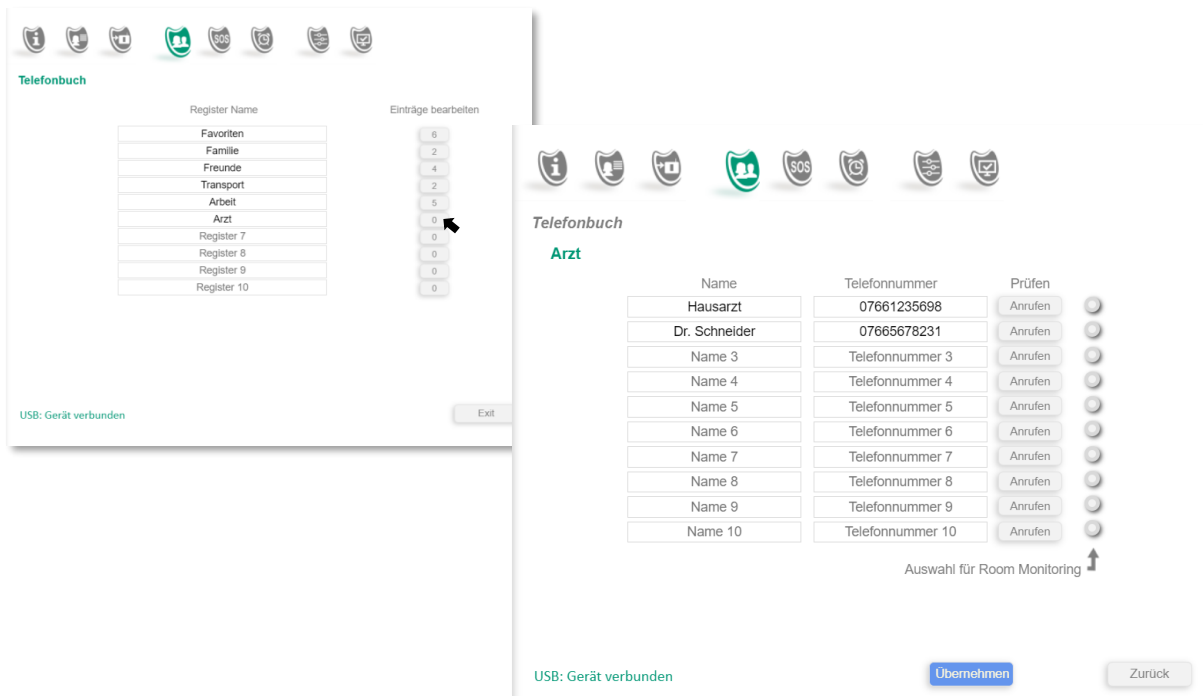
Right side button show the current number of  
entries in respective Telephone Registers

⇒ Open a Telephone Register  
by Click on this button  
(see black arrow in lower picture)



### 3.6 Phonebook

#### 3.6.2 Enter telephone contacts



The telephone numbers are entered in the same way as they would be dialed on a normal telephone. Device is connected to the fixed network via your DECT base station and telephone system. Therefore, you do not need an area code for contacts in the same location:

Example: You live in Munich and want to enter your neighbor with TelNo **089** 567 453 as a contact , then the numbers 567 453 **without the area code 089** are sufficient

Contacts for mobile phone **numbers** must always be entered in full with the **provider area code** : e.g. **0177** 444 555

##### 3.6.2.1 Internal connections

You can also use other local DECT phones on the same telephone system as contacts. To do this, your DECT Base needs one or more special characters that are placed in front of the number.

⇒ **Please read operating manual** of your System.

The internal numbers of in-house telephones are assigned automatically by your telephone system in the order in which they have been registered : INT1, INT2, ... INT5 (usually a maximum of 5)

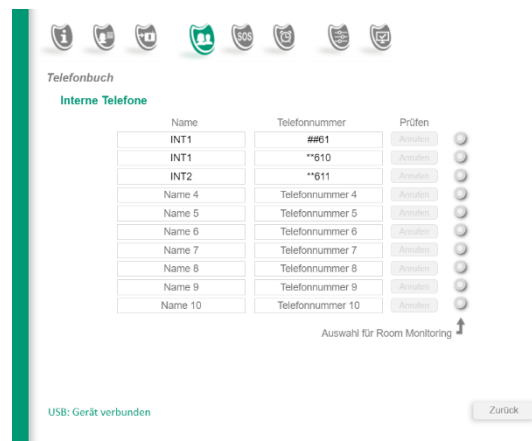
Examples of telephone number codes for DECT phones INT1 and INT2 :

Speedport router (T-COM)

- INT1 = phone number      **\*\* 61**
- INT2 = telephone number      **\*\* 62**

Gigaset base station

- NT1 = phone number      **## 610**
- INT2 = phone number      **## 611**

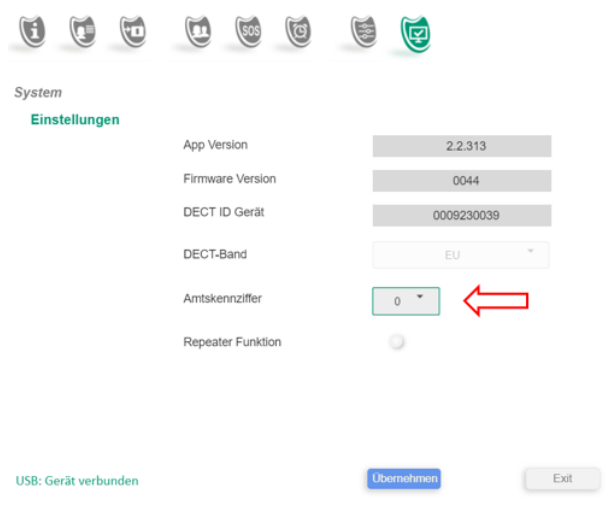


### 3.6.3 Operation with DECT PBX and dedicated code for exchange line

If DECT base station is connected to a PBX, such system has internal and external telephone connections. In order to notify the system that an external connection is to be established, a leading number must be sent to the system, which connects the exchange line. This number is called the PBX line code and the function "spontaneous activation of fixed line".

This PBX code can be defined in PC APP Register **System / Settings**

The correct PBX code depends on the system. For this, read the operating manual of the system. Often "0" or "9" is used.



*Please use this exchange code for activating the outside line and enter the numbers in the telephone book as usual. You don't have to worry about this trunk. If the PBX system is changed, you may only have to change this number, but none of your telephone numbers.*



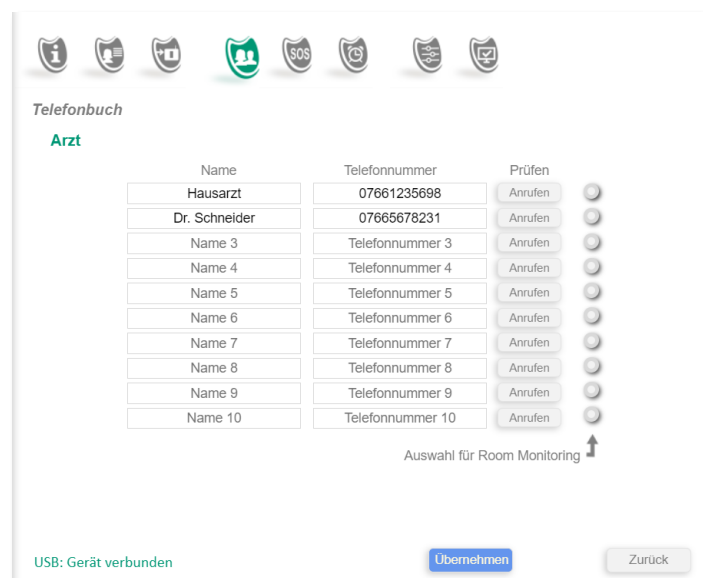
*There is a further important difference between using the PBX line code in front of every telephone number in the telephone book or using the PBX code here at one place: Switching ON the external line takes a certain amount of time (usually less than 1 second), but dialling has to wait until the external line is ON. This is exactly what the PBX line code does.*



### 3.6.4 Room Monitoring

You can specify for each number individually whether it is used for **"Room Monitoring"**

The function is quite helpful for older people, for example if the person concerned does not answer calls. You can then call with this number and will be put through immediately. You can try to speak to the person and "listen in" with the microphone of Device to see if any suspicious noise can be heard. The function is also known from baby phones. Sometimes it is recommended to use instant Hook-Off for the family doctor's Number.



### 3.6.5 missed calls

If Device is on the charging disk and an incoming call is not accepted, this call is automatically filed under an Register "missed calls".

If Device is removed from the charging disc, it reports the number of missed calls.

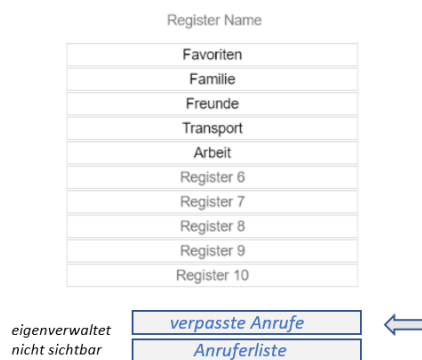
The register "missed calls" is after the last telephone directory out .

*An entry in the »missed calls« list is automatically deleted if*

- a) *this number is called back*
- b) *the entry has been read out*

*If a callback has been made, this number / name is placed in the caller list*

#### Telefonbuch



### 3.6.6 Caller List

Each executed call is stored in the non-visible Register "caller list ", limited to 10 contacts. The » Caller List « tab is located behind the »Missed Calls« tab.

#### Telefonbuch



### 3.7 Telephoning

Device has a high-quality hands-free facility. Device should not be picked up when making a phone call. It should hang freely around the neck or lie on the table. Elderly people can then make calls without the losing stability (hands-free. If Device is always around the neck, the person can always be reached immediately.



*If Device is held in the hand during the conversation, the openings for speakers can (left in the rubber) and microphone (right in Rubber )may inadvertently covered with the fingers. In this case the volume is then significantly muted.*



*If the small microphone opening is dirty, the called party can no longer hear the conversation ( loudly ). In this case , carefully clean the small microphone hole (right side, above the side button) with a toothpick or a straightened paper clip.*



#### 3.7.1 Accept an incoming phone call

When a call comes, it rings with the set ringtone

If the name of the caller is stored in the phone book, the name is announced.

*„Hubert is calling“*

Otherwise the calling number is announced.

Call will be accepted by pressing the call button.

The call is always stored in the Register *Caller List*.



##### 3.7.1.1 incoming call when Device is on the charging disc



*If Device is now removed from the charging disc, the call will be accepted automatically. The »Cancel Call« function (press call button) is deactivated for a few seconds to prevent the call from being accidentally canceled.*

You probably know this behavior from normal DECT telephones when taking them from charger after ringing.



*In case the call is not accepted, it will be stored in the Register »Missed calls«.*



**3. 7 .2 Calling a contact from the phone book**

**3. 7 .2.1 Selection of registers / names via side keys** (for blind people, without disabilities)

This is a quick way to select a desired contact from the phone book.

It is not suitable for older and severely disabled people (see 3.8. 2 Reading aloud)

**A)** First select the phone book by pressing a side key:

» **Phonebook activated** «



**B)** Then select the desired register.

To do this, use the same side key .

If you wait, you will be asked to choose a register

» **Please select register** «

Die registers are sequentially with your read titles.



**C)** Once you have found the register you want,

press the side button on the opposite side to select the contact .



Remark

If you wait for ca 1.5 seconds, you will be asked to choose a name

» **Please choose name** «

In this case you can use the same sidekey 1 for selecting the Name



**D)** If the desired name found, press the call button

If you wait, you will be asked to choose a name

» **Press the call button** «

The call is initiated.



**Brief description:**

**1** Press the side key and select "Phonebook"

**2** Press the side key to select register

Press **3** other side key to select name

**4** Press the call button »Hubert will be called



**Speed dialling (only for experienced)** : You want to call Hubert.

Hubert is stored in the **3rd** register in the **5th** position

You press quickly without waiting for an announcement :

(SK = side key )

1 time SK *left* (phone book) **3** times SK *left* (register) **5** times SK *right* ( name)

Then Call button »Hubert will be called«



Any attempt of dialling can be canceled by briefly pressing the call button.

### 3.7.2 Calling a contact from the phone book

#### 3.7.2.2 Selection of registers / names by reading out loud (for older people)

In the case of old age blindness and people with severe disabilities, this method offers a way to call family and friends. With the help of the voice assistant, all contacts are read out in the order in which they are stored. If the desired name announced, press call button to call to this contact.

- 1 Press side key and select "Phonebook"
- 2 Press call button and start Voice Assistant to read names
- 3 Press call button »Hubert will be called«



Any attempt of dialling can be canceled by briefly pressing the call button.



Reading can be canceled by pressing and holding the call button for 2 seconds

### 3.7.3 Adjust the waiting time of voice assistant

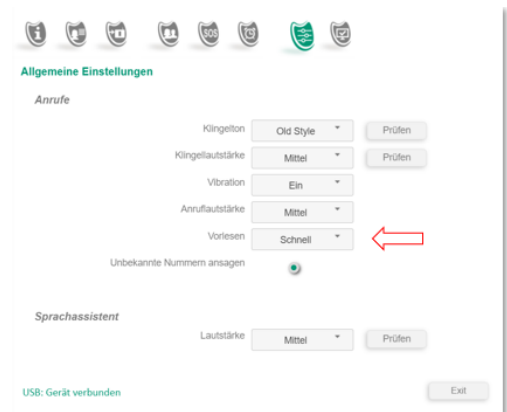
Under **Settings** you will find the term »Read Out«.

Here you can choose between

»Fast«      => waiting time =      1 second

»Slow«      => waiting time =      2 seconds

= Waiting time between the names read out



### 3.7.4 Increase the volume during the call

During an ongoing call, by **pressing a side button** the call volume MAX to be increased (booster). Next pressing of SideKey change volume to previous setting. This increase is not possible if the MAX volume is already set.



## 3 Settings via PC app

### 3. 8 SOS call for help sequence Call for help / emergency call sequence

An SOS call for help sequence is available for emergencies.

This SOS sequence is triggered by

- manually by pressing and holding the call button (2 seconds) (red button function)
- automatically when a fall is detected
- automatically when smoke alarms are detected



Every SOS call for help can be canceled at any time by pressing the call button.

Up to 3 help numbers and 1 emergency number can be used. Here, too, you should assign names to the numbers, because these are read out when the numbers are dialed.

#### Enter " Repetition "

The call sequence of 3 help numbers can be repeated up to 9 times. In practice, however, it is recommended to repeat them 2 to 3 times. To do this, enter the number 2 or 3 .

#### Enter " Ringing Time "

Here you can define how long the call should ring at the called party before the next number in the call sequence is used. The *ringing time* at the called party should be chosen that the called party can answer the call. But *ringing time* should not be too long, in order to avoid delay in finding a valid contact.

It has proven useful to set the ringing time to a value of 15 seconds.

You still have the option of entering an »emergency number« if the search for a contact from the 3 help numbers was unsuccessful (see 3. 9.2 *the emergency call* ) .

Anrufsequenz	Name	Telefonnummer	Prüfen
2	Hubert	0171 232 433	Anrufen
3	Susanne	0172 234 566	Anrufen
1	Nachbar Rudi	896 765	Anrufen
Hilferuf-Prüfer			<input checked="" type="checkbox"/>
Wiederholung	3		
Klingelzeit (sec)	15		
	Dr. Müller	885 674	Anrufen

Notruf:  Hilfe,  Sturzalarm,  Rauchalarm

Buttons: Übernehmen, Exit

USB: Gerät verbunden

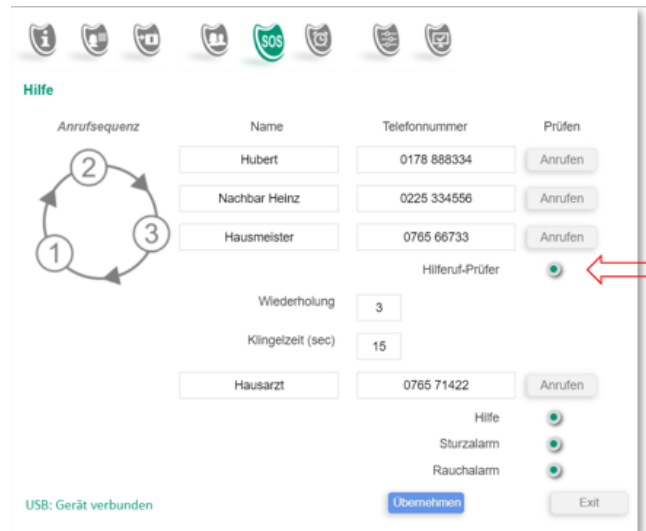
### 3.8.1 Difference between the help number and the emergency number

Up to **three help numbers** are set to repeatedly be , according to your specification "repetition" . These are the first 3 numbers of the SOS sequence. If a valid contact is found, the SOS sequence is ended.

#### 3.9.1.1 >Help Call Checker< of iCM intelligent Call Manager

The analysis of a "valid contact" is carried out by the iCM, the "intelligent Call Manager" , here in the PC APP register called " **Help Call Checker** " (red arrow).

The monitoring of the call sequence by the iCM is important because the person in distress often cannot intervene, but the Device must find reliable contact. The iCM is therefore very strict in assessing whether a valid help contact has been made. The iCM can recognize many use cases with automatic calling systems. In case of uncertainty he rates the call as "invalid" in order not to end the SOS sequence incorrectly.



The following calls are rated as " not valid " in the current version :

- Ringing time exceeded
- Call acceptance with a duration of less than 2 seconds
- Call acceptance without ringing
- Answer after ringing but possible machine announcement detected



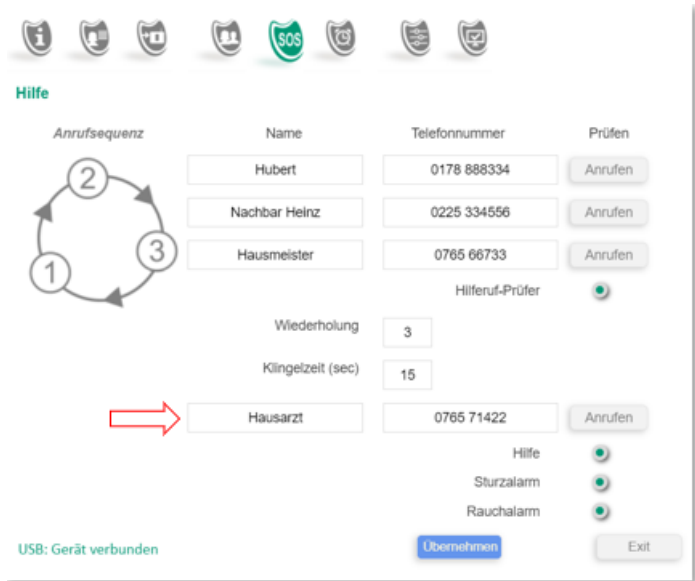
*In very few individual cases, your telephone system (VoIP router) may generate tones in the audible audio band (usable band) while the call is being put through . The call for help Examiner (iCM) could then erroneously assume an IVR system and cancel the call. You can deactivate the iCM by switching off the» Help Call Checker« (see red arrow in the picture) .*

### 3.8.1.2 the Emergency Call Number

In case of no contact with help call numbers have been achieved, you can be apply an Emergency Number (see red arrow), for safety reasons

**However, this Emergency Number shall be a private number and not a National Emergency Organisation.**

Anyway, it should be a reliable contact that can be reached around the clock. The family doctor is often entered for the emergency number.



The emergency number is not evaluated by the iCM and rings until someone picks up. In this case, an IVR announcement does not interfere either, for example »All numbers are currently occupied. Please wait, have a little patience «

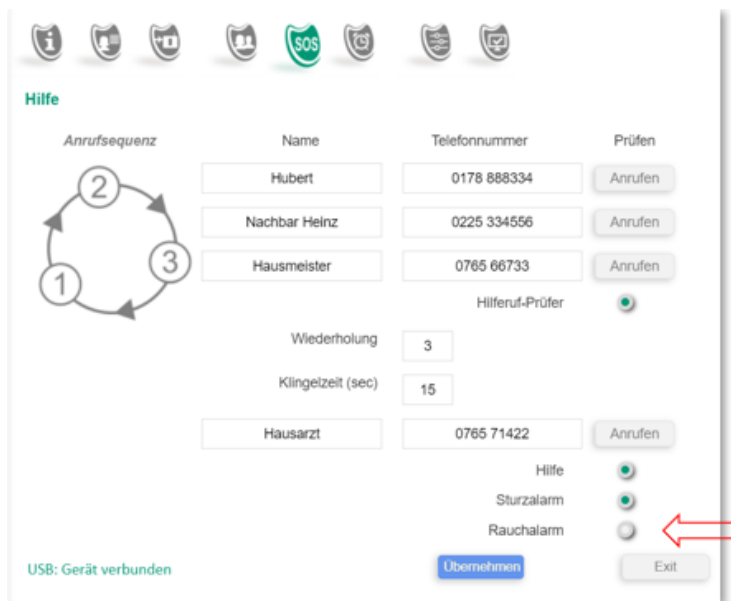
### 3.8.1.3 Activating the SOS sequence

The SOS sequence is activated at the factory for all three call for help sequences :

- Help = manual call for help
- Fall alarm = automatic call for help
- Smoke alarm = automatic call for help

You can define for which event this SOS call is de-activated or activated.

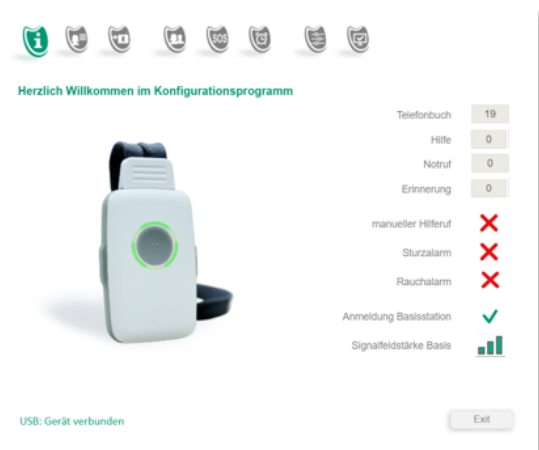
Example picture:  
smoke alarm deactivated



If you deactivate all three SOS events, the Device works as a telephone only.

Application example here:  
**Telephone for the blind person without any emergency call activated**

You would recognize this on the info page as follows:

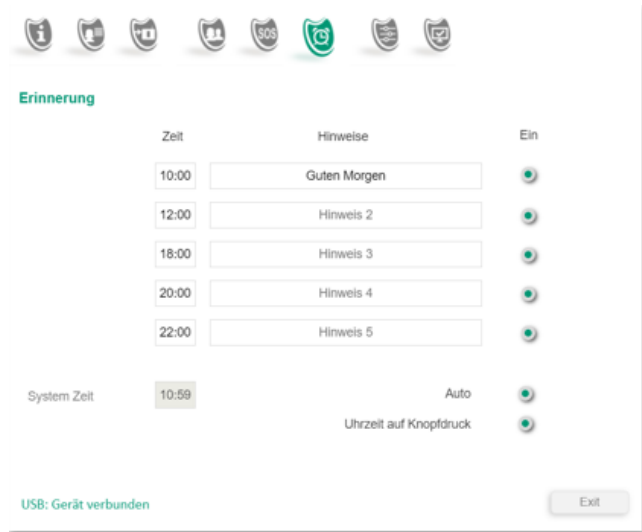


### 3 Settings via PC app

#### 3.9 time-triggered notes (reminder)

The reminder function is intended to help older people not to forget e.g. to take medication at certain times. You can enter up to five reminders in 24h format. You can also temporarily switch off individual announcements using the On (Off) button.

A valid time of day is required for this function. Device recognizes ifn there is no valid time in Device. In this case it will announces "no time available."



##### 3.9.1 Enter time / remote programming

The time (system time) can be entered in various ways :

a) via PC APP



b) through external call (Remote Programming)

Once the call is taken, the caller enters the current time on his keyboard:

<b>Format</b>	<b># TIME # hhmm #</b>	<b>TIME</b> corresponds to the key sequence <b>8463</b>
	hh	hour: 00... 23
	mm	minute: 00 ... 59

Example:

current time is 9h45 => input # **8463** # 0945 #



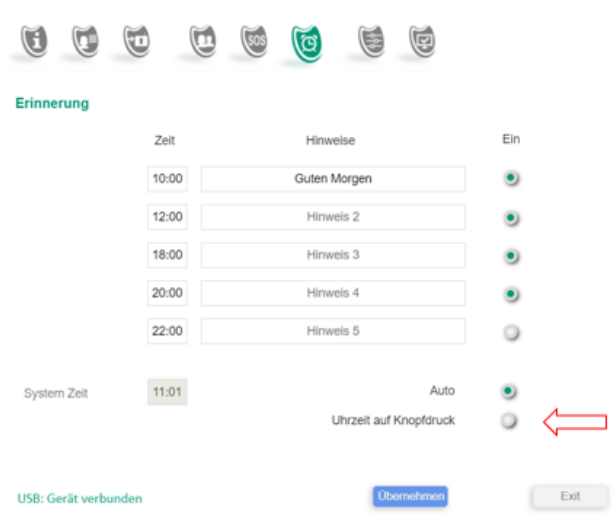
*Please make sure that calling party is not in vicinity of Device beause of acoustic feedback. The whistling can corrupt the Data Transfer and its correct identification*

##### 3.9.2 Switch off the time announcement

The current time is spontaneously announced at short pressing the call button. This is a particularly valuable function for the visually impaired and blind people.

Device must be in idle mode.

You can switch off this time announcement (see red arrow)

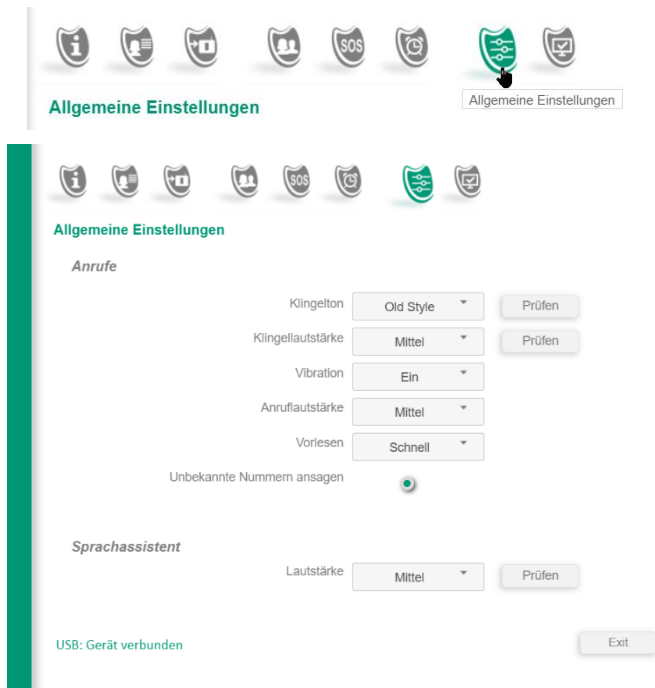


### 3 Settings via PC APP

#### 3. 10 General Settings

Here you have the option of selecting one out of three melodies as ringtone and setting the volume of ringtone, the call and the voice announcements .

Before you **APPLY** the changes , you can test them under **Check** .



#### 3 . 11 System (for experts only)

##### 3. 11 .1 System Settings

###### 1 DECT band

DECT frequency band is set to AUTOMATIC at the factory. The machine selects self - constantly correct DECT band EU or US. Once enrolled, it will remain in this band even if a new base is used. By RESET on work-being - position is reset to Automatic.

###### 2 PBX code (spontaneous line access)

If your base station is connected to the fixed network via a switching system, a so-called outside line digit or outside line code is often required in order to receive an outgoing exchange line. This single-digit exchange code can be entered here. All outgoing phone calls from Device are then automatically dialed with this preceding outside line digit

###### 3 Repeater function

This function is not available in the current version.

###### 4 Service Number

Status messages can be received from Device via the service number. They are used for professional project applications (e.g. Monitoring Room) and are not for private use. The service number must be activated with button 5 »Activate«.

###### 6 Selective Help Call

With this switch you specify that the call for help sequence is triggered selectively as follows:

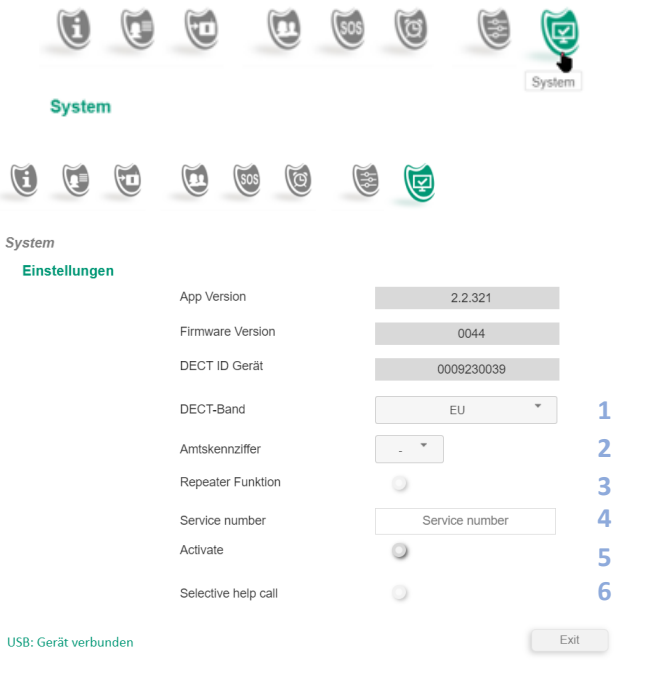
1. Help number = manual call for help
2. Help number = fall detected
3. Help number = smoke alarm detected

Anrufsequenz	Name	Telefonnummer
2	Manuell	123 5
3	Sturz	123 6
1	Rauchalarm	123 7

Only one help number is dialed per event 1-3.

The iCM is switched off. It is therefore not checked whether an IVR or AB is accepting the call .

⇒ It is a central system function that interpretes event type 1-3 based on the used phone number.

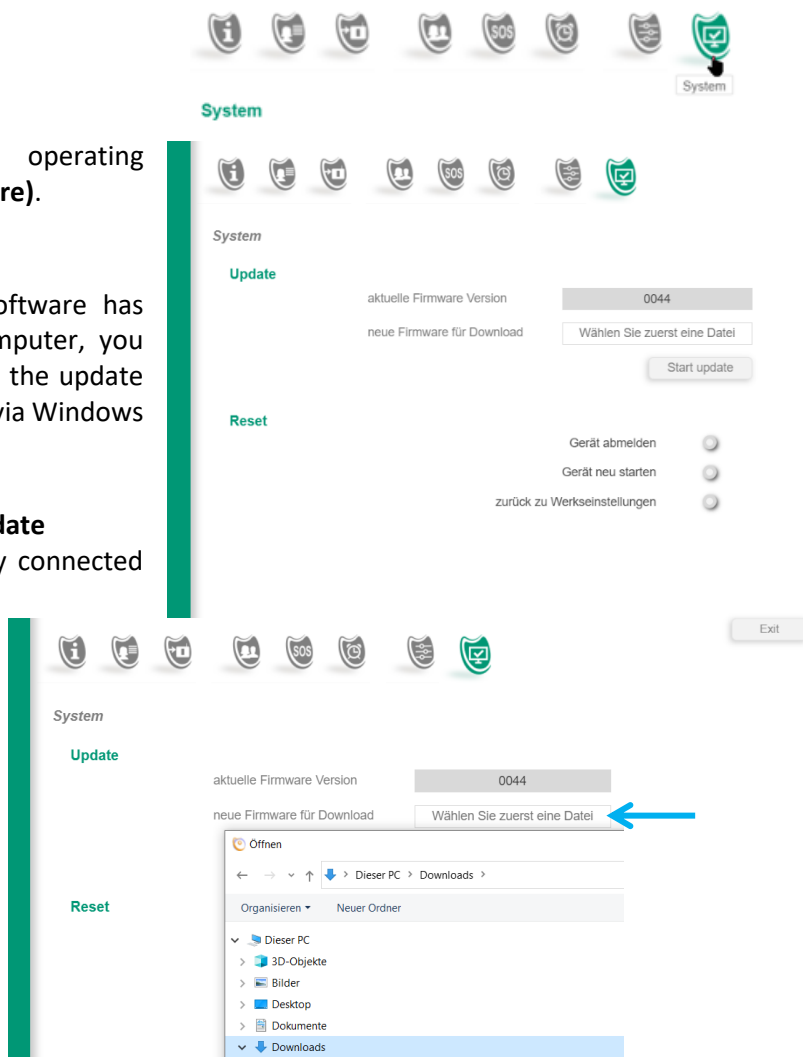


### 3.11.2 update

Device can receive new operating software via **update (Firmware)**. Ask your dealer about this.

After the new operating software has been loaded onto your computer, you can cut and paste this file in the update window by selecting the file via Windows Explorer: see blue arrow.

Afterwards press **Starten update**  
Please leave Device carefully connected to USB during this time



### 3.11.3 RESET Reseting of settings

Settings can be reset with **Reset**. Here you have three different reset functions:

- 1. De-register Device**  
delete current DECT registration

#### Application example

You want to report Device from the current DECT base station a b (e.g. test base station)



*You can **change the base station** at any time without de-registration the Device with the PC APP. To do this, switch off Device. After replacing the base station, switch Device on again. Then put the new base station into registration mode and press the call button on Device. Device then asks »Register new base station? Press the call button.« If the call button is pressed, the new registration begins.*

- 2. Restart Device**  
rebooting Device eliminate any malfunctions
- 3. Restore Factory Settings**  
delete all data incl. registration restore ex works status





## 4 Special Notes

### 4.1 Fall detection and automatic call for help



Fall Detection is preset at the factory and is activated automatically when Device is removed from the charging disc. Fall Detection is interrupted when Device is connected to a calling party, i.e. the user is on the phone.

Define the help sequence using the PC APP.

Since quick help is necessary, recommends it , to reduce the number of help phone numbers and the number d it to reduce repetitions, recommended is a repetition. Then Device calls the emergency number. This should always be determined and a medically experienced body should be found in, for example, the family doctor or emergency doctor or a contractually responsible service provider.

When the emergency number is called, the voice assistant answers with “This is a fall emergency call, please take action” and also provides the location data and the special instructions. This information is five meters repeated al.

The hands-free connection is activated so that the person who has fallen can be consulted about the severity of the fall. If a conversation is no longer possible, quick help is often vital. The special instructions (see Section 3.3 ) should provide information on access to the apartment.

Fall detection cannot interpret all incidents as "fall-affine". Reliability is , however, very high , typically > 85%. The false alarm rate is typically <2%. A 0 % error rate is achieved because a "negative confirmation" is retrieved before the call for help sequence is resolved .

If Device falls to the ground and the user no longer picks it up, a call for help sequence is also triggered after several instructions from the voice assistant.

This **product-on--floor function** is preconfigured **at the** factory and is a very practice-oriented function

## 4 Special Notes

### 4.2 Smoke alarm detection and automatic call



The smoke alarm detection is activated automatically when Device is placed on the charging disc. This usually happens at night or when you are away from home. This safety function is particularly valuable at this time.

The smoke alarm detection works with all commercially available smoke detectors, heat detectors and carbon monoxide detectors.

If Device detects a smoke alarm, it automatically calls the stored telephone numbers with an announcement from the voice assistant: "Smoke alarm detected, please take action" as well as the location data and the special instructions (see Section 3.3 ). This information is repeated 5 times. A smoke alarm must last more than 30 seconds . to be classified as a real smoke alarm. This is to prevent false messages, for example when testing the system .

If a call for help is accepted, Device waits 30 minutes and checks whether the smoke alarm has been switched off. If the smoke alarm is still activated, Device starts the call for help sequence again.

The smoke alarm call sequence is ended immediately if

- smoke alarm has been switched off
- Device has been removed from the loading disc

Test the smoke alarm detection by pressing the test alarm on the smoke detector.

=> After 2 seconds the ring LED signals **RED** ; the smoke alarm was recognized .

If the smoke alarm remains active for several seconds, the smoke alarm sequence is carried out.

### 4.3 De-install the PC APP

The PC APP can be de-installed again with the tools of the Windows operating system. There are two ways to do this

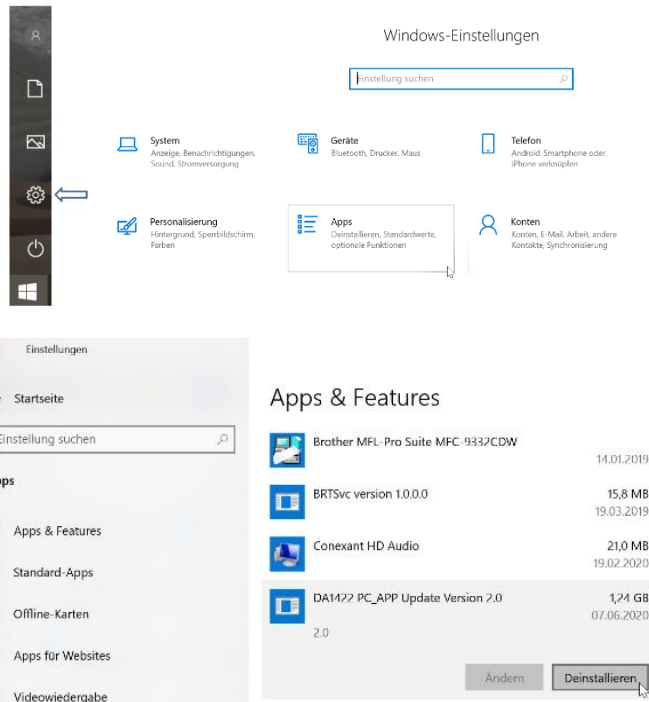
#### 1. via WIN Explorer

Open the WIN Explorer and open the "Programs" tab  
There you will find the DA1450 program .

Open this register and execute the **deinstallation** program: **unins000.exe**

#### 2. via WIN settings

Open the WIN settings at taskbar and select "Apps "



There You can find the program **DA1450 PC\_APP**

and the option " **Uninstall** "

### 4.4 Insert textile tape into clip (re-insert, shorten, use new tape)

The textile strap opens when a force equivalent > 4kg is applied to the clip (safety from strangulation). The tape can be reinserted as described below. Also use this guide if you want to shorten the tape or use a different textile tape.



Clip with textile



Individual shortening



Insertion tape left



insertion tape right



position Clip Cover



squeeze Clip Cover ("click")



ready for mounting to Device



connect Clip to Device

## 5 Important Information

### 5.1 Help for troubleshooting

#### 5.1.1 Status LED flashes red

Either the battery is too weak (there is a risk of shutdown!) Or Device has no radio connection to the base station. To do this, place Device briefly on the loading disc and then off the loading disc. After 7 seconds, the voice assistant reports the faulty function (s), either

a) the battery is not sufficiently charged

Remedy: Place Device on the charging disc and charge Device for approx . 2h

b) Device is not connected to the base

Remedy: Check whether the base station or DECT function is switched on has been switched off. Switching the base station off and on often helps .

#### 5.1.2 Device cannot be registered with the base station

Possible sources of error:

a) The distance to the base station is too great during registration .

Remedy: Take Device to the base station room and repeat the registration

b) The base station has no "free space" for another terminal .

Remedy: Open the configuration menu of the base station (via the browser in the PC or via a connected DECT handset) and delete a terminal Device from the list. Usually up to 5-6 DECT terminals are accepted by the base station

c) The system PIN of the base station is not set to "0000"

Remedy: Change the PIN of the base station to "0000"  
and repeat the registration  
or use the PC APP of Device (chapter 3.3)

d) The base station is not in registration mode

Remedy: Look for the registration button on the base station. This can be a specific button labeled "DECT" or "Register" or a central button that must be held down for several seconds.

Remember that DECT base station en enrollment mode keep activated only for about 5 minutes. The registration of Device must therefore be carried out within this time. Otherwise, the registration button on the base station must be pressed again.

e ) The base station does not conform to DECT GAP standard and / or uses proprietary functional elements. In this case you have to replace DECT base station. Today you can find good and cheap products from 50 euros.

## 5 Important Information

### 5.1.3 Announcement "Device is not ready for operation"

Possible sources of error:

a) Device is not registered with the base station

Remedy: Register to Base Station (chapter 2.3)

b) Device is not connected to the base station

Remedy: Check the distance to the base station

Check base station; switched off?

it often helps to switch the base station off and on

c) Device is not sufficiently charged

Remedy: Device about 2 hours load

d) no help numbers entered

Remedy: (without PC APP): Call the Device; this calling number will be used as help call number

Remedy: (with PC APP): Enter the help numbers

### 5.1.4 Device does not charge

a) Check whether the charging disc is connected to the mains

If disk connected to the mains, the ring LED of charging disc lights up briefly

b) Place Device according to the marking on the charging disc

c) Use the positioning aids (bumpons). It guarantees an exact placement of Device on the charging disc and prevents it from accidentally slipping from correct position.

## 5 Important Information

### 5.2 Charging Device (switch on Device)

Use only the supplied USB cable for the charging disc and the plug-in power supply. The power supply may only be provided with cables in accordance with Device specifications. Always place the charging disc on a flat, non-slip surface. Device heats up during charging. This is normal and not a fault. You can use several charging disks (e.g. living room and bedroom). Ask your dealer about this.



*Device can only be switched on by placing it on the charging disc. However, never switch OFF Device off, even if you are away for a long time, for example. If you place Device on the charging disc, the smoke alarm detection is also activated.*

### 5.3 Speakerphone

Device has a hands-free facility with a considerable volume. Therefore, never hold Device to your ear to avoid hearing damage.

### 5.4 Adjustment of the neck strap length

The length of the neck strap can be adjusted individually.

For this purpose, the textile tape is cut to the required length and inserted into the clip.

### 5.5 Protection against environmental influences

Protect Device from direct sunlight, dust, moisture and vapors. Do not expose Device to extreme temperatures or strong electromagnetic fields. Device is protected against dust and splash water in accordance with IP65. As a result, you can use Device while showering, but not while bathing.

### 5.6 Cleaning

Use a slightly damp cloth for cleaning. Do not use liquid detergents directly on Device. Device is splash-proof. Do not switch on Device if it comes into contact with liquid. Hold Device vertically and gently shake it. Pat Device dry and let it sit for at least 24 hours. Then place Device on the charging disc for two hours in order to achieve residual drying through the heat.

### 5.7 Repair

Never try to maintain or repair Device yourself. Do not open the case under any circumstances. This could lead to destruction and damage the Li-ion battery. Damage to the Li-ion Battery can lead to intense heat. You lose your guarantee.

### 5.8 Disposal

When your Device has had its day, take it to the collection point of your municipal waste disposal agency (recycling center). Device is registered under the WEEE Reg No. **DE 23684005**.

According to the Electrical and Electronic Equipment Act, owners of old Devices are legally obliged to dispose of old electrical and electronic Devices in a separate waste collection facility. Please help and make a contribution to environmental protection by not disposing of your old Device with household waste.

### **5.9 Warranty**

The dealer from whom you purchased Device provides a guarantee for the quality of material and manufacturing. In the event of a defect, the buyer is initially entitled to supplementary performance. The supplementary performance includes either the repair or the delivery of a replacement product. Replaced Devices or parts become the property of the dealer. If the subsequent performance fails, the buyer can either demand a reduction in the purchase price or withdraw from the contract and, if the dealer is responsible for the defect, demand compensation or reimbursement of wasted expenses. The buyer must notify the dealer immediately of any defects found. Proof of the warranty claim is to be provided by a proper purchase confirmation (purchase receipt). Damage caused by improper handling, operation, storage as well as force majeure or other external influences are not covered by the guarantee.

### **5.10 CE Declaration of Conformity**

This Device fulfills the requirements of the EU directives: DIRECTIVE 2014/53 / EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of April 16, 2014 on the harmonization of the laws of the member states regarding the making available on the market of radio equipment and on the repeal of directive 1999 / 5 / EG . Conformity with the above directives is confirmed by the CE mark. The CE declaration of conformity is at **DOSCH & AMAND Products GmbH** be viewed .

### **5.11 Technical Service**

You can obtain additional advisory services from the service number of your specialist dealer or from the email addresses provided.

## 6 Technical data

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<b>default</b>	DECT GAP according to ETSI standard 300 444 DECT EU, US
<b>Frequency range</b>	EU: 1880 MHz to 1900 MHz US: 1920MHz to 1930 MHz
<b>Duplex process</b>	FDMA / TDMA TDD
<b>modulation</b>	GFSK
<b>Transmission power</b>	10 mW - thermal power per channel NTP 250 mW
<b>Radio range</b>	up to 300 m outdoors, up to 50 m indoors
<b>Plug-in power supply</b>	100-240V AC, 50 / 60Hz, power plug: Euro type, USB
<b>battery</b>	Li Polymer 450mAh standby time max 2.5 days
<b>operating temperatur</b>	0°C to +45°C
<b>Protection class</b>	IP6 5
<b>Dimensions</b>	70 * 42 * 14mm
<b>Weight</b>	41g

## 7 Ordering information

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<b>designation</b>	<b>DA1450</b> Telecare system
<b>Type</b>	<b>DECT telephone for Blind People with Emergency Call and Fall Detector</b>
<b>item number</b>	1432.1500.00
<b>Manufacturer information</b>	DOSCH & AMAND Products GmbH Made in Germany