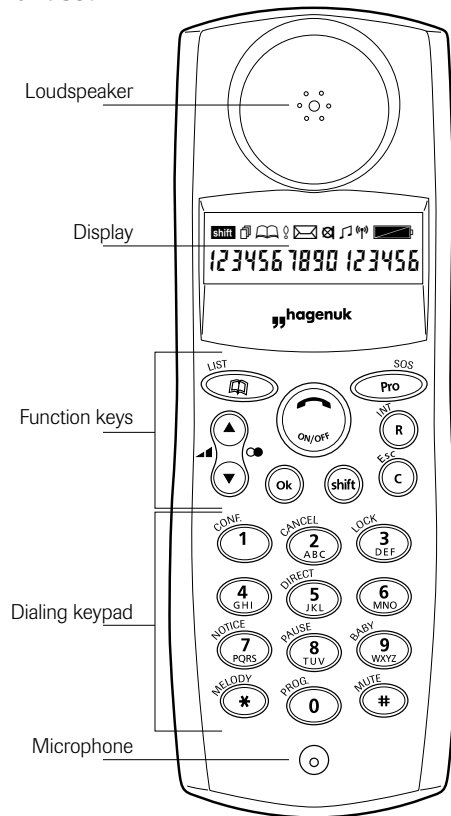


Handset

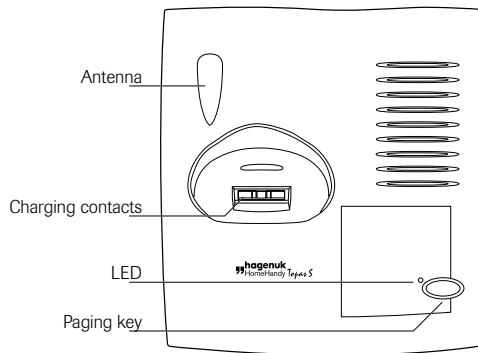


List of Features

- Single dialing / Block dialing
- Linking of phone numbers from the phonebook, redial, call list*, manual dialing
- Support of alternative network operators* (call – by – call)
- Phonebook with 20 entries of 30 characters
- Call list*: 20 entries
- Redial the last 10 phone numbers
- Display the phone numbers for incoming calls* (CLIP function)
- Protection against unauthorized use by full bar
- Babyphone function
- Emergency call function
- Call costs / time display
- Adjustable earphone volume
- Microphone muting
- Keypad lock
- Switchable key click
- Tone call melody / volume adjustable in several stages
- Notebook function
- Up to 5 handsets on one base (multi-link)
- Operation of one handset on up to 4 bases (multi-access)
- Paging function

* depending on whether supported by the network operator

Base station



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1 Introduction

Dear customer,

On purchasing this telephone from the Topas family, you have chosen a high-performance, cordless telephone. It is equipped with the latest technology and has a number of comfort functions.

You can connect your new telephone immediately to an analog telephone terminal and phone (Plug & Phone). You should read this operating manual thoroughly to get the best out of your phone. We also recommend that you make the basic settings before using it for the first time. Read the chapter "2.1 Putting Into Operation" – it's worth it.

The HomeHandy Topas S is a cordless telephone with DECT – GAP standard.

It consists of the base and one or more (up to 5) handsets (accessories). The base serves as a charging station for the handset. Extra charging stations are available as accessories.

Speech is coded according to the form anchored in the DECT standard; this offers effective protection against third parties listening in to radio conversations using broadband receivers (scanners).

The GAP standard enables you to use your handset on the GAP base of another manufacturer as well as to use another manufacturer's GAP handset on your base. Read the appropriate manual in any case.

Some of the features described here depend on the support of the respective network operator (e.g. clip, call list, network operator codes, call charge data registration, etc.). If you should have any questions regarding this, please contact your network operator.

2 Safety Notes

2.1 Putting Into Operation

Location

When choosing the location for the HomeHandy Topas S base, you should observe the following points:

- Avoid the immediate vicinity of CD players, VCRs, TVs, computers and microwaves. Also avoid the vicinity of satellite receivers and answerphones which can cause interference.
- Avoid places where there is a lot of dust or smoke, direct sunlight and high humidity or places directly next to heat sources
- Try to locate the base if possible in the center of the range in which you want to telephone; in a multi-story house you will probably get the greatest range when you place the base near to the stairs.
- Use a freely accessible 230 V~ (AC) mains socket for the power pack. Only use the SNG 010 W type power pack provided.
- Place the base station and the charging station (accessory) on a non-slip surface so that the plastic feet do not attack the varnish on furniture leaving unsightly marks on the surface.

Please also note:

- The phone can cause interference noise in hearing aids.
- The HomeHandy Topas S cannot be used during power cuts because there is no power supply to the base.
- Since speech is transmitted between the handset and the base by radio and radio connections as we know are strongly dependent on the environment, it cannot be ruled out that a connection cannot always be set up under any circumstances. You should therefore never rely completely on cordless phones when communication is essential (e.g. a medical emergency).

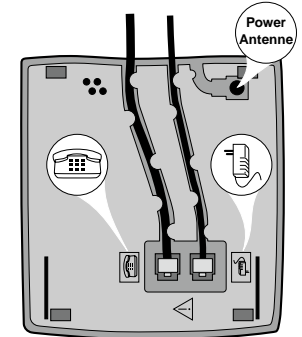
- The recommended ambient conditions for operating the base and the charging station (accessory) of the cordless telephone are:
Ambient temperature: +10° C ... +40° C
Relative humidity: 20% ... 75 %
- It is not permitted to operate the base / charging station outdoors or in areas where there is a danger of frost.

Connection

Connect the cables to the base station. Plug the telephone plug of the power supply and telephone cable into the appropriately marked socket on the bottom of the base station. Then connect the telephone cable to the telephone socket and plug the power supply unit into an electrical socket.



Only use the SNG 010 W power pack provided.



The socket marked "PowerAntenna" in the figure is used to connect an external antenna (accessory) with a shielded coaxial cable with a special plug. When delivered, this is protected by an adhesive label which you must remove before you insert the plug. The socket contains a switch which switches off the internal antenna as soon as the appropriate plug is plugged in. To protect this function, neither the plug nor the socket may be 'manipulated'. Check the cable for damage now and again. Do not operate an antenna with a damaged cable as this can lead to malfunctioning.

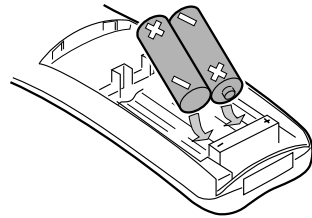
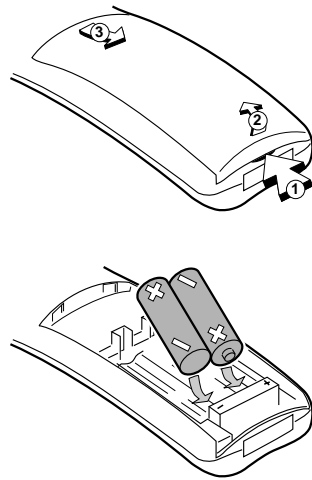
PowerAntenna with directional effect

The HomeHandy Topas S is equipped with an antenna plug for connecting a directional antenna. This Hagenuk – PowerAntenna has a gain of approx. 8 dBi. Antennae with a higher antenna gain may not be connected. **Only the use the PowerAntenna specially designed for the Topas family because other cables or antennae may damage the equipment.**

Inserting the batteries

The battery compartment has a cover with a snap catch. Open the battery compartment on the back of the handset by pressing the point on the cover marked ①. Then flip up the cover ② and remove in direction ③. Insert the batteries in the phone the right way round (polarity!!) and close the battery compartment again. To do this push the two lugs at the end of the cover into the recesses in the housing and lower the cover until it audibly snaps into place.

Place the handset on the charging / base station with the keypad facing forwards and give the batteries time to charge up before you use the telephone for the first time or make a setting.



- **Make sure you insert batteries of the same type, the same capacity and the correct polarity.**
- **Never operate the handset with the battery compartment open!**
- **Never place the handset on the charging / base station with the battery compartment open!**

Recommended first steps

Although your telephone is ready for operation immediately after connecting the base and a short charging time for the batteries, you should adapt it to your special requirements first by making a few settings.

- Select emergency numbers (see 5.10)
- Change the PIN (see 5)

If necessary you should then:

- determine a call cost factor (see 5.6.1)

2.2 Charging and handling the batteries

The handset batteries must be charged in devices fresh from the factory or which are being put into operation after long periods of storage. To do this place the handset on the base / charging station.

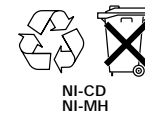
By using commercially available, size AA (mignon) batteries it is possible to use batteries with different capacities to those provided. When changing the batteries always make sure you use batteries of matching type and capacity (e.g. NiCd or NiMH / 650, 700 or 1200 mAh).

A special battery charging management which takes the battery capacity into account makes sure that the batteries are always optimally charged. The special feature of this system is its "intelligence". During the "learning phase" the battery indicator in the display may be slightly inaccurate – please do not allow yourself to be confused.

You can shorten this "learning phase": to make a rough setting, you can tell the system which battery type is being used. There is a choice of three settings for this: Auto (-matic), 1200 (mAh), 700 (mAh). If the batteries you use do not have one of the two settable capacities, choose the next one up or Auto. The batteries will not be damaged by a wrong setting (see 5.1). The less you replace the handset on the base or a charging station after calls, the better chance the system has of achieving optimum charging of the batteries. When the battery capacity is almost exhausted you will be notified by rapid flashing of the battery symbol in the display and by an acoustic warning signal.

The "learning process" mentioned above starts again from the beginning after removing or changing the batteries.

Do not forget that the battery is an expendable part, its capacity and the resulting operating times diminish even with optimum handling.



NI-CD
NI-MH

Please take defective and used batteries along to a special collection point for batteries, never throw them in the domestic waste!

3 General Information

3.1 About this Operating Manual

This chapter "General Information" will help you become familiar with the features of your new telephone. You will find out all you need to know about the keys, the display and the audible signals.

In the chapter "Telephoning" all operating procedures before and during the telephone call are described. You will find out how to answer a call as well as information how to use other functions which require pre-programming.

The adjusting and programming possibilities for the telephone are described in the chapter "Programming".

The special features of system operation are explained in the chapter "Operation on a Telecommunications Systems".

Illustration of the operating steps

The operating steps are illustrated in table form. The order is numbered consecutively starting at a specific initial state.

If there are alternatives to individual steps, these are indented and highlighted by a dotted line and begin with "or" or "if necessary".

The text column describes the respective activity in words, the picture or symbol of the corresponding key next to it gives a quick overview. The corresponding illustration of the display always shows the result of the operating step in this line.

3.2 Delivery scope

HomeHandy Topas S

- 1 handset
- 2 batteries, size AA (mignon), 700 mAh
- 1 base with power pack SNG 010 W
- 1 telephone cord
- 1 shirt clip
- 1 operating manual

3.3 Accessories

You can equip your telephone with a wide range of accessories.

- The PowerAntenna extends the range of your base station by a directional characteristic to up to 600 m (depending on ambient conditions).
- A belt clip makes it easy to carry around your personal handset
- An additional charging station with SNG 010 W power pack extends the action radius of your handset by allowing it to be recharged decentrally. A main socket is required for operation.
- Additional turn your cordless telephone into a communication center with up to 4 other handsets.









3.4 Controls and Indicators

3.4.1 Keypad

Numeric keys  ... , , 





– to enter the phone numbers













Function keys

-  Phonebook
-  Network operator code
-  Connection setup or disconnection / ON / OFF key
-  At rest: Call and scroll in the redial memory
In connection state: adjust the volume
During programming: select memory slots, programming alternatives for positioning the cursor
-  Confirm selection, save a programming
-  Change function level
-  Signal key for flash function
-  Clear key

Sonderfunktionen












Kennzeichnung auf dem Gehäuse neben der jeweiligen Taste:

- LIST  Call the call list
- SOS  Select a programmed phone number (emergency number) even when the keypad is locked
-   Call redialing in the connection state

INT		Dial an internal number (when operating several handsets on one base)
ESC		Leave the current programming level
CONF.		Set up a conference call (when operating several handsets on one base)
CANCEL		Return to standby
LOCK		Switch key lock on / off
DIRECT		Activate/deactivate direct call mode with a programmed phone number
NOTICE		Call the notebook function
PAUSE		Insert a dial pause (usually when operating on telecommunications systems / duration: 2 seconds)
BABY		Activate / deactivate the babyphone mode
MELODY		Adjust the tone call melody of the handset
PROG.		Start programming
MUTE		Switch microphone off / on (mute)

3.4.2 Display

top line: display states with 8 pictograms
bottom line: display current base (on standby), display phone numbers or programming

 2nd function level activated; flashes when programming continues	 Microphone off
 Entries in the call list, flashes for new entries	 Dual tone multifrequency (DTMF) dialing set
 Phonebook, flashes when programming	 Call state, flashes during connection setup
 Direct call or babyphone active, flashes when programming	 Battery fully charged
	 Battery ready to operate
	 Battery almost empty
	 (flashes rapidly) battery empty, additional warning signal

3.4.3 Base

A LED signals the following operating states on the base:

- LED lights steadily: standby
- LED flashes slowly: incoming call, speech connection

- LED flashes rapidly: base ready for book-ins
The booked handsets can be called with the Paging key on the base.

The battery indicator in the handset flashes according to the current charging state during the charging procedure on the base / charging station (see 3.4.2).


3.4.4 The Various Memories

Your telephone provides you with various memories to make telephoning more comfortable.

Redialing


The redialing memory contains the last ten dialed phone numbers (also those dialed from the phonebook). If all the memory slots are occupied, the oldest entry is cleared by a new entry. You can access the redialing memory in the rest state by pressing one of the two arrow keys and in the connection state by pressing the Shift key followed by one of the arrow keys. You then see the phone number dialed last. You can scroll in the redialing memory with the arrow key.

The redialing memory consists of 10 slots of 30 characters each.

Keyword data security: As a new entry the current display contents are not transferred to the redialing memory until the call is disconnected. In practice this means that, when, for example, you have entered your account number and the necessary PIN when using telephone banking, you can delete these numbers or the entire display with  before disconnecting (see 3.5); in this way you prevent them being transferred to the redialing memory.


Phonebook

You can save your telephone numbers manually or can transfer entries from the redialing memory or the call list (see 5.15).

The phonebook is called with the  key. Then the first entry is displayed (01:). You can access another entry either by pressing the arrow keys several times or by entering the memory slot with two digits (01 ... 20).

The phonebook offers space for 20 entries of a maximum 30 characters.


Call list

The phone numbers of all incoming telephone calls are saved in the call list irrespective of whether they have been answered or not. Precondition for storing is transmission of the phone number at your connection (CLIP / dependent on the network user). If there are calls in the call list, the symbol  appears in the display. You can dial these phone number directly. The call list distinguishes between seen and unseen entries. This symbol flashes in the case of new unseen entries. A new incoming call is stored "in the top position", i.e. it appears first when the list is called. If all memory slots are occupied, the already seen entries are cleared first when new calls arrive. If a call is received from a connection which is already in the list, the older entry with this number is cleared. The call list consists of 20 memory slots of 30 digits each.

Network operator codes

You can store different network operator codes which you can then prefix to a phone number starting with "0".


You can set one network operator code permanently so that it is dialed before the phone number for every trunk call (see 5.9.2).

However, you can also select one of these network operator codes for every call with the  key. Please note that the actual phone number is always dialed unchanged.

Six memory slots ("01" ... "06") are available; in addition an empty memory exists which cannot be written ("00"). No network operator code is pre-dialed when this memory is selected.

3.4.5 Tones

Acoustic signals when telephoning:

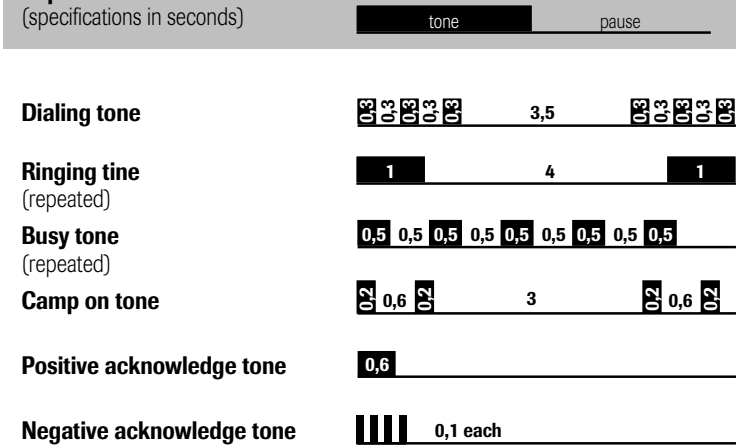
- You hear the dial tone when you press the  key
- You hear the ringing tone if the called connection is free.
- The busy tone is heard if the called connection cannot be reached because it already has a call.
- The camp-on time alerts you to a further incoming call during a conversation.

Acoustic signals when operating and programming:

- The positive acknowledgement tone confirms a correct input.
- The negative acknowledgement tone indicates an operating error.

Representation of the internal tones

(specifications in seconds)




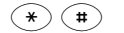


3.4.6 As-delivered State

Your cordless Topas S telephone is delivered with the following basic features:




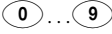









Handset		Basis	
Phonebook	no entries	Call list	no entries
Redialing	no entries	Dialing method	DTMF, Flash short
Call list	no entries	Call cost factor	0.01
Network operator code	no entries	Exchange code	no entries
Tone call melody (ext.)	2	Base - PIN	0 0 0 0
Tone call volume (ext.)	5		
Earphone volume	3 (medium)		
Key click	on		
Telephone lock	off		
Call list	Handset		
Permanently set network operator code			
Battery type	auto		
Handset - PIN	0 0 0 0		

3.5 Entering Numbers and Characters, Editing

Possible entries are:

-  (numbers)
-  (special characters)
-  (signal key)
-  (dialing pause)

Initial state: a phone number has been entered

No.	Description	Input	Display
1	Cursor flashes: (indicated in white)		
2	Position cursor if necessary, number flashes		
3	Enter new number(s), (insertion mode to left of cursor) Insert or add stored phone number (see 4.1.4)		
or	Delete characters		
or	Delete the whole line	Press  for longer than 2 seconds	
or	Exit programming without saving chan- ges (jumps one level higher)		
or	Cancel program- ming completely		

4 Telephoning

The following functions are described below:

Outgoing call

- Dialing (after line seizure)
 - Internal call
- Dialing preparation
- Using a stored telephone number
(call list, phonebook, redialing memory)
- Linking of phone numbers
- Dialing with network operator code
- Dialing emergency numbers
- Direct call

Incoming call

- External call
- Internal call

During a call

- Camping on during an internal call
- Three-party conference
- Adjusting the earphone volume
- Brokerage
- Switching the microphone on / off (muting)
- Notebook function
- Switching to an internal party

Ending a call

Other functions

- Switching babyphone on / off
- Switching direct call on / off
- Viewing call costs for the last call
- Viewing total call costs
- Switching off the handset
- Paging
- Switching the key lock on / off
- Telephoning with full bar switched on

4.1 Outgoing Call

A call can be initiated with or without dialing preparation. Dialing preparation is the entering of numbers before line seizure (handset at rest, no dial tone audible). Here you can change the phone number because dialing has not yet started.

4.1.1

If you want to seize the line first (●) and then dial, you can initiate the dialing procedure by manually entering numbers or by calling a stored phone number. It is not possible to change numbers which have already been entered. If you want to stop dialing, just press the ● key again.

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Set up connection	●	
2	Manual phone number input		
or	Use a stored phone number (see 4.1.3)		

4.1.1.1

If several handsets are booked into your base, these can communicate internally free of charge. Every handset is assigned an internal call number (1 to 5) in the booking in procedure (see 5.18) under which it can be reached.

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate an internal call		
2	Dial the internal phone number, the desired handset is called		

4.1.2 Dialing Preparation

In many cases it is of advantage to enter or prepare the phone number before you seize a line. You then have the possibility of editing or correcting the phone number in addition to the dialing methods mentioned above. Dialing only starts when you press the ● key.

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Manual phone number input		
or	Using a stored phone number (see 4.1.3)		
or	Linking of phone numbers (see 4.1.4)		
2	Dial phone number	●	

4.1.3 Using a Stored Phone Number (Call List, Phonebook, Redialing Memory)

A phone number can be called from different memories, edited and then dialed.

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Memory selection Redialing:	Press / until the desired phone number is displayed	
	or Phonebook:	, scroll with / or select the desired number directly with ... ,	
	or Call list:	several times if necessary or press / until the desired phone number is displayed	
2	Dial the phone number		
	or confirm selection, edit the phone number and then dial		

4.1.4 Linking of Phone Numbers

In the dialing preparation, phone numbers from different sources (phonebook, call list, redialing memory) can be combined with each other and / or

with manually entered digits. Then you can dial.

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Transfer a phone number from the phonebook	/	
	or Transfer a phone number from the call list	/	
	or Transfer a phone number from the redialing memory	/	
	or Enter a phone number manually		
2	Set the cursor to the desired position if necessary	/	
3	Sequence with a phone number from the phonebook	/	
	or Sequence with a phone number from the call list	/	
	or Sequence with a phone number from the redialing memory	/	
	or Complete the phone number manually		










4	Dial the phone number		
or	Abort the dialing preparation	 	

4.1.5 Dialing with a Network Operator Code

For your telephone call, you can choose between different network operators. The procedure described below leads to selection of a provider for the following single call only. An activated network operator code is identified by the "#" symbol in the display. It appears in the standby state before the name of the base and in the case of an entered phone number before the first digit. If you want to dial without a network operator code, look for an empty memory slot, the "P" symbol disappears. The network operator code is not included in the redialing. See 5.9 for programming of a network operator code. Please note that the actual phone number is always dialed without being changed.

Initial state: Handset on standby

Operating steps:









No.	Description	Input	Display
1	Press the "Pro" key		
2	Select other network operator code if necessary	 , several times if necessary or press  / 	
3	Confirm selection		
4	Enter phone number and dial ("Dial after line seizure", see 4 or "Dialing preparation", see 4.1.2)		

4.1.6 Dialing the Emergency Numbers

Emergency numbers can be dialed even when the discriminator is switched on or the full bar is active. See 5.10 for selecting an emergency number.









Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Press keys for emergency call	 	
2	Select emergency number if necessary	 / 	
3	Dial the emergency number		

Initial state: Handset in the connection state

Operating steps:

No.	Description	Input	Display
1	Press keys for emergency call	 	
2	Select emergency number if necessary	 / 	
3	Dial the emergency number		

4.1.7 Direct Call

When the direct call is activated it is only possible to dial a single phone number automatically. Every dialing attempt results in a connection being set up with the programmed direct number (see 5.5).

4.2 Incoming Call

An incoming call is signaled with the preset melody and volume on your handset. The caller's phone number appears in your display if it has been transmitted (CLIP). This feature must be supported by your network operator. For phone numbers with more than 16 digits, the first 15 digits are displayed followed by a hyphen. This hyphen indicates that other digits follow but are not displayed.

If the handset is currently in the programming mode, this is aborted by an incoming call.

Automatic answering

If the handset is on the base station or the charging station when a call is received, the call is automatically answered when you lift the handset. You do not need to press a key. To prevent you accidentally disconnecting the call, the **[Mute]** has no function for 3 seconds.


Switching off the ringing tone

If you want to silence a "ringing" handset when you are in a meeting for example, press the **[Mute]** key. The current call is switched off. The caller still hears the ringing tone and you can answer the call as long as the call still exists. The next call is signaled again with the preset melody and volume.

4.2.1 External call

Initial state: Handset on standby

Operating steps:


No.	Description	Input	Display
1	Incoming external call, display the caller's number (if transmitted)	Press [Mute] to answer the call (press [Mute] to mute call)	

If the phone number is transmitted, it is recorded in the call list whether you have answered the call or not.

4.2.2 Internal call

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Incoming internal call, display caller's handset	Press [Mute] to answer the call (press [Mute] to mute the call)	



4.3 During a Call

4.3.1 Camping On During An Internal Connection

An external call received during an internal conversation is signaled by a "camp on tone" (see page 15).

Initial state: in internal call

Operating steps:











No.	Description	Input	Display
1	Camp on tone during an internal conversation, display the caller's number (if transmitted)	Press [Mute] , internal connection is disconnected. Handset rings, press [Mute] to answer "camp on call"	
		or Press [Shift] [R] to answer the call, internal connection is held and continued after the external call ([Mute]).	



4.3.2 Three-party Conference

You are telephoning with an external party and want to add an internal party to the conversation – you are telephoning with two other parties. Three-party conferences consist of one external and two internal parties – a conference between three internal parties is not possible. After one conference party has hung up, the other two parties are still connected.

Initial state: External call

Operating steps:

No.	Description	Input	Display
1	Initiate an internal call	 	
2	Dial the internal phone number, the desired handset is called, the external call is put on hold	 ... 	
3	When the internal party answers, you start the conference	 	
4	Any party can hang up, the other two remain connected.		




As the initiator of the conference you can "eject" the internal party by pressing   again. He hears the busy tone. You carry on telephoning normally with the external party.

4.3.3 Adjusting the Earphone Volume

You can alter the earphone volume during a call. The volume can be adjusted in 6 steps. The change in volume is retained at the end of the call. You can program a change in the basic setting (setting after resetting) as described under 5.8.

Initial state: Handset in the connection state

Operating steps:











No.	Description	Input	Display
1	Increase / reduce earphone volume	 / 	

4.3.4 Brokerage

You are telephoning with an external party and set up a connection to an internal party (e.g. for confirmation or inquiries). Then you switch back and forth between the two parties. You only talk to one other party at a time; your two partners cannot hear each other.

Initial state: External call

Operating steps:

No.	Description	Input	Display
1	Initiate an internal call	 	
2	Dial the internal call number, the desired handset is called, the external call is held	 ... 	
3	After the internal party has answered, you can switch back and forth between the two connections.	 	 or 

4.3.5 Switching the Microphone On / Off (Muting)

If you want to talk to someone else in the room during a telephone conversation without your telephone partner being able to hear you, you can switch off the microphone.

Initial state: in call

Operating steps:

No.	Description	Input	Display
1	Switching the microphone on / off		

4.3.6 Notebook Function

You can enter a number in the redialing memory at any time and in any call state. This number will be treated like all the other numbers in the redialing memory.

Initial state: in call

Operating steps:

No.	Description	Input	Display
1	Call the notebook function		
2	Enter the number		
3	Terminate the procedure		

4.3.7 Switching to an Internal Party

If you have answered an external call for another internal party, you can pass it on with or without pre-announcement. If the desired handset is unavailable when you pass on the call without pre-announcement, the call is returned to the "operator" after 30 s.

Initial state: External call

Operating steps:

No.	Description	Input	Display
1	Initiate an internal call		
2	Dial the internal phone number, the desired handset is called	...	
3	The internal party answers, announce switching, Disconnect		
or	Disconnect immediately without waiting for a reply		

4.4 Ending a Call

After ending a call you have initiated the call time and – if available – the call costs appear in the display for 3 seconds. If no cost information is available, only the call time is displayed. The example shows the display for a call time of 12 minutes and 15 seconds and the total of 5 DM and 63 Pfennigs.

Initial state: in call

Operating steps:

No.	Description	Input	Display
1	End call		

4.5 Other Functions

4.5.1 Switching the Babyphone On / Off

You can use your handset as a babyphone. As with normal babyphones, a room is monitored by the handset microphone and a pre-programmed number is called (internally, i.e. to another handset of this base or externally, i.e. via a normal telephone connection) when a pre-programmed volume (9-stage sensitivity setting, see 5.3) is exceeded for longer than a second: You can then monitor the calling handset for 1.5 minutes after the call has been made. After this the babyphone switches off for 3 minutes. This prevents the handset calling again immediately if the noise level persists. Then it changes over to the monitoring mode again and will initiate a call when the noise level is exceeded. When the handset is in babyphone operation no calls are signaled and the earphone is switched off. The handset can be placed on the charging station even when the babyphone is activated.

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Select babyphone, number last used in babyphone operation appears	9	
2	Enter internal number if necessary	R + internal number	
or	Enter external number if necessary		
or	Edit phone number if necessary	= delete digits > 2s = delete number	
3	Switch on babyphone		

Initial state: Babyphone switched on

Operating steps:

No.	Description	Input	Display
1	Switch off babyphone	9	

4.5.2 Switching Direct Call On / Off

When the direct call is switched on a connection is set up a previously programmed phone number (see 5.5) every time any key is pressed (except). If the no direct number is programmed, activation is not possible. If the direct call is switched on, it will be switched off by this procedure.

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Select direct call, programmed phone number is displayed	5	
2	Change the direct number if necessary		
3	Switch on direct call		

Initial state: Direct call switched on

Operating steps:

No.	Description	Input	Display
1	Switch off direct call	5	

4.5.3 Viewing Call Costs for the Last Call

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming	0	
2	Enter code number	6 6	
3	Exit display	C, 2	

0.00 is displayed if no costs were recorded for the last call.

4.5.4 Viewing the Total Call Costs

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming	0	
2	Enter code number	6 7	
3	Exit display	C, 2	

4.5.5 Switching Off the Handset

You can switch off the handset completely. Its current consumption drops to a minimum. You cannot telephone in this state, no incoming calls are sig-

naled either. The display is completely switched off. Just tap the key to switch the handset back on.

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Switch off the handset	Press longer than 2 s	

4.5.6 Paging

If you have "mislaid" your handset, just press the paging key on the base. The tone call of all handsets booked into this base is emitted for about 30 seconds.

4.5.7 Switching the Key Lock On / Off

To avoid accidentally pressing a key, e.g. during transport, the keypad can be locked. In this state, all keys except the key are locked. An incoming call additionally releases the key (switch off the "ringing" for incoming call), the key lock is cleared for the duration of the call but is automatically reactivated afterwards.

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Switch on key lock	3	

Initial state: Keypad locked









Operating steps:

No.	Description	Input	Display
1	Switch off key lock	3	

4.5.8 Telephoning with Full Bar Switched On

You have protected your handset against unauthorized use. Outgoing calls can only be made after entering the correct PIN. See 5.15 for switching the full bar on and off.

Initial state: Full bar active

No.	Description	Input	Display
1	Press the on / off key		
2	Enter the handset PIN, the handset is in the connection state		
3	Dial the phone number		
4	The bar is reactivated at the end of the call		

5 Programming

In this section the following programming is described:

- Setting the battery type
- Call list
 - Switch over call list (handset / base)
 - Delete entries
- Adjusting the babyphone sensitivity
- Selecting the base
- Programming the direct call number
- Call costs
 - Determining the call costs factor
 - Resetting the call costs counter
- Handset tone call: melody and volume
- Earphone volume: basic setting
- Network operator code
 - Saving network operator codes
 - Programming fixed network operator codes
- Selecting emergency numbers
- Changing the PIN
- Reset function
 - Clearing the dialing memory in the handset
 - Resetting the handset to the as-delivered state
 - Deleting various settings in the base
 - Resetting the base to the as-delivered state
- Switching the key click on / off
- Phonebook
 - Saving new entries
 - Editing / deleting entries
- Switching the full bar on / off
- Setting the dialing method
- Booking additional handsets in / out
 - Booking in a handset
 - Booking out a handset

5.1 Setting the Battery Type

Optimum charging of a battery depends on the detection of the battery capacity. The handset attempts to calculate this capacity as quickly as possible using the data acquired from use. The programming described below to narrow down the range of possible capacities and to shorten the "learning phase".

There is a choice of three settings: Auto (-matic), 1200 (mAh), 700 (mAh). If the battery type you are using does not have one of the two settable capacities, select the next highest or Auto. The battery will not be damaged even if the setting is incorrect.

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming	0	
2	Enter code number	3 0	
3	Select a new setting with the arrow keys	▲ / ▼	
4	Save the setting	OK	

5.2 Call List

5.2.1 Switching over the call list (handset / base)

You will find your telephone's call list in the handset and the base. Normally the basic setting (call list in base) is the right setting. However, if the handset is operated on a base which does not have its own call list, you have to switch over your handset. Of course this can only work if the base transmits the incoming phone numbers to the handset as digits.

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming	0	
2	Switch over to the call list in the handset	2 4	
or	Switch over to the call list in the base	2 5	

5.2.2 Deleting Entries

If all 20 slots in the call list are occupied, the oldest entry is deleted by a new entry. If a call is received from a connection whose phone number is already in the call list, the older entry for this number is deleted. You can of course delete manual entries in the call list as well.

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Call the call list		
2	Select the desired entry	▲ / ▼	
3	Delete the entry	Press longer than 2 s	
4	Select another entry	▲ / ▼	
or	Exit the function	2	

5.3 Babyphone: Setting the Sensitivity

See 4.5.1 for switching the babyphone on and off.

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming	Ⓢ 0	
2	Select babyphone	Ⓢ 9	
3	Set the sensitivity (1...9), the higher the number, the greater the microphone	1...9 or ▲/▼ The number flashes as soon as the current noise level has released a call	
4	Save the setting	Ⓚ	

5.4 Selecting the Base

You can operate your handset on up to four different base stations (1...4). To do this, it must be booked (registered) into the appropriate base first (see 5.18). The "Auto" setting causes the handset to log into the next nearest base. In most cases this will be the right one unless you are operating your handset in an environment with several bases in which the handset is also booked. Then a specific base must be selected.

"Auto" may not be selected when booking a handset into a new base!

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming	Ⓢ 0	
2	Enter the code number, the currently set base number flashes	1 2	
3	Enter the new base number	1...4 or 5 = („Auto“)	
4	Save the setting	Ⓚ	

5.5 Programming the Direct Call Number

You can program an internal or external phone number which is dialed automatically when any key on the handset is pressed. The only exceptions are the key for answering and incoming call and for deactivation of the direct call.

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming, the number last used as a direct phone number is displayed	Ⓢ 0 Ⓢ 5	 Soll eine neue Nummer eingegeben werden, muß zuvor die alte gelöscht werden.
2	Edit phone number / enter new one	Ⓢ = delete digits Ⓢ > 2s = delete no.	

or	Transfer phone number from the phonebook	▲ / ▼ or ... (2 - stellig)	
or	Transfer phone number from the redialing memory	▲ / ▼	
or	Transfer phone number from the call list	▲ / ▼	
or	Enter internal phone number	+ internal number	
3	Save the setting		

5.6 Call Costs

The expired call time is displayed for the calls you have placed.

If your connection has the "Units transfer" feature (depending on the network operator), the costs for the call are displayed at the end of an external call after programming a factor. The display is visible for 3 seconds after the end of the call.

In addition you can also view the costs for the respective last call or the total costs (see 4.5.3 and 4.5.4).

5.6.1 Determining the Call Cost Factor

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming		

2	Enter the code number for cost factor		
3	Enter the base PIN		
4	Enter and confirm new factor	...	
5	Exit input	/	

5.6.2 Resetting the Call Cost Counter

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming		
2	Enter code number		
3	Enter the base PIN		
4	Confirm resetting		

5.7 Handset Tone Call: Melody and Volume

You can set the tone call in your handset to the following versions:

- Set. 0 - only a short beep is emitted
- Set. 1 ... 6 - various ringing tones
- Set. 7 ... 9 - short pieces of music.

You can make different settings for signaling internal and external calls. For the volume you can choose between 0 ... 6; "0" means: tone call off.

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming	shift 0	
2	Enter the code number (melody for internal call)	1 9	
or	Enter the code number (melody for external call)	2 0	
or	Enter the code number (volume for internal call)	2 1	
or	Enter the code number (volume for external call)	2 2	
3	Change setting with the arrow keys or with the number keys 0...9 or 6	▲ / ▼ or 0 ... 9 , the new setting is demonstrated acoustically.	
4	Save the setting	ok	

Note:

You can also set the tone call (melody) for external calls with "**shift** *****".

5.8 Earphone volume: Basic Setting

With this programming you can change the basic volume to which the handset is reset when reinstating the as-delivered state (cf. 5.12.2).

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming	shift 0	
2	Set the basic volume with the arrow keys; the volume changes in relation to the number of strokes in the display	▲ / ▼	
3	Save the setting	ok	

5.9 Network Operator Code

You can store six different network operator codes of 30 digits each in your handset. You can use these to preselect the desired network operator for every trunk call you make in the "call – by – call" mode. It is also possible to program one of these network operator codes permanently. This is then prefixed to all dialed numbers which begin with "0" unless you define another network operator code for the following call only with the **Pro** key (this selection has a higher priority than the fixed number). Please note that the actual phone number is always dialed unchanged.

In order to provide a possibility for dialing without such a prefixed number even for stored network operator codes, there is a write-protected memory slot ("00") which is always "empty" and which can be fixed or freely selected.

If a network driver code is activated a "D" is displayed in front of the number in the rest state when a phone number is entered. The current network operator code can be displayed by pressing the **Pro** key and another one selected with the arrow keys if necessary. Network operator codes are identified by a "D" at the beginning.

5.9.1 Storing Network Operator Codes

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming	0	
2	Press the "Pro" key, select and confirm the memory slot	, / 	
3	Enter a new number or make corrections and confirm	1 ... 0 or	
4	Rufnummer speichern (ggf. anderen Speicherplatz auswählen und bestätigen, s. Schritt 2)		
or	Programmierung der Rufnummer abbrechen (weiter mit Schritt 3)		
or	Programmierung beenden /abbrechen	2	

5.9.2 Programming Fixed Network Operator Code

A fixed network operator code is automatically prefixed to every dialed number which begins with "0" unless you have selected a different network operator code with the "Pro" key. If no network operator code is selected, the empty entry ("00: --") is selected from the network operator code memory.

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming	0	
2	Enter code number	2 3 ,	
3	Select the network user code		
4	Save the setting		

5.10 Selecting Emergency Numbers

Emergency numbers are any phonebook entries marked with SOS, these can be dialed even when the full bar is activated.

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming	0	
2	Select the phonebook		
3	Select a call number to be marked	or 0 1 ... 2 0	
4	Enter the SOS identification		
5	Enter the handset PIN	1 ... 0	



BASE 1



The same procedure is necessary to reconvert a marked phone number. The character „ı“ disappears in front of the number.

5.11 Changing the PIN

The access to various programmings is protected against unauthorized access by a PIN (Personal Identification Number, 4-digits) to protect special settings. The base and the handset have their own PIN settings which is set to "0000" in the as-delivered state. For security reasons you should change this setting immediately after putting into operation. When you have entered your own PIN, commit it to memory. When you forget your PIN, it is only possible to reset it to the initial state at extra charge in a service workshop.

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming		
2	Enter the code number (handset PIN)		
or	Enter the code (base PIN)		
3	Enter old handset PIN		
or	Enter old base PIN		



BASE 1



When the new PIN has been entered correctly, the handset returns to the rest state with the positive acknowledgement tone, if an input error has been made the negative acknowledgement tone is emitted instead and the PIN is not changed.

5.12 Reset Function

You can choose from the following functions:

Handset functions

- delete the last redial entry
- delete all redial entries
- delete the call list in the handset
- delete all phonebook entries
- reset the handset to the as-delivered state (delete the user data including all above named points / see handset functions)

Base functions

- delete the call list in the base
- delete the exchange line seizure / deactivate the exchange line seizure (system operation)
- reset the base to the as-delivered state (delete the user data including all above named points / see base functions).

The functions are protected by the PIN. When "resetting to the as-delivered state", the handset or the base is reset to the as-delivered state in all points (see 3.4.6).

5.12.1 Clearing the Dialing Memory in the Handset

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming		

2	Delete the last redial entry	(1) (4)	
or	Delete all redial entries	(1) (5)	
or	Delete all phone-book entries	(1) (6)	
or	Delete the call list in the handset	(1) (7)	
3	Enter the handset PIN		
4	Confirm clearing	(ok)	

5.12.2 Resetting the Handset to the As-Delivered State

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming	(shift) (0)	
2	Reset to the as-delivered state	(1) (8)	
3	Enter the handset PIN		
4	Confirm resetting	(ok)	

After resetting to the as-delivered state, the mobile unit temporarily loses contact with the base, this connection is recovered automatically within a short time.

5.12.3 Deleting Various Settings in the Base

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming	(shift) (0)	
2	Delete call list in the base	(5) (5)	
or	Delete exchange line seizure	(5) (7)	
3	Enter base PIN		
4	Confirm deletion	(ok)	

5.12.4 Resetting the Base to the As-delivered State

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming	(shift) (0)	
2	Reset to the as-delivered state	(5) (9)	
3	Enter base PIN		
4	Confirm resetting	(ok)	

5.13 Switching the Key Click On / Off

The key click is an acoustic confirmation of a keypress. You can switch it on or off depending on the initial state.

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming	shift 0	
2	Switch over key click	1 3	

5.14 Phonebook

You can store 20 phone numbers of a maximum 30 characters each in the phonebook. Network operator codes do not need to be stored with the numbers because these are in a special memory and can be combined with the phonebook entries either permanently or selectively for the next dialed number.

You can enter the numbers in the phonebook manually or transfer them from the call list or the redialing memory.

If a flashing cursor appears in the display (when programming and during operation), single digits to the left of the cursor can be deleted by pressing briefly. If you press the key for longer than 2 seconds, the complete entry is deleted.

Phone numbers from other sources (redialing memory, call list) and supplementary digits added manually, e.g. a specific extension number.

A phone number marked by "emergency call" cannot be edited.

5.14.1 Saving New Entries

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming	shift 0	
2	Select phonebook		
3	Select memory slot and confirm	▲ / ▼ or 0 1 ... 2 0 Ok	
4	Enter the phone number manually	1 ... 0	
and/or	Transfer from the redial memory	shift ▲ / ▼ Ok	
and/or	Transfer from the call list	shift ▲ / ▼ Ok	
and/or	Edit the phone number	c / 1 ... 0	
5	Save the phone number (select another memory slot if necessary, continue with step 3)	Ok	
or	Programmierung der Rufnummer abbrechen (weiter mit Schritt 4)	shift c	
or	Programmierung beenden /abbrechen	shift 2	

5.14.2 Editing / Deleting Entries

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming		
2	Select phone-book		
3	Select memory slot and confirm	/ or ... 	
or	Delete phone number	longer than 2 s	
4	Edit the phone number	/	
or	Delete phone number	longer than 2 s	
5	Save the phone number (select another memory slot if necessary, continue with step 3)		
or	Cancel programming of the phone number (continue with step 4)		
or	Exit / cancel programming		

5.15 Switching Full Bar On / Off

With the full bar, you can rule out your handset being used by anyone who does not know the correct PIN . Incoming calls can be answered, emergency numbers dialed and the handset "switched off" (see 4.5.5). See 4.5.8 for telephoning with full bar activated.

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming		
2	Enter the code number for the full bar		
3	Enter the handset PIN; the full bar is activated		

Initial state: full bar is activated

Operating steps:

No.	Description	Input	Display
1	Enter the code number for full bar		
2	Enter the handset PIN; the full bar is switched off		

5.16 Setting the Dialing Method

The following types of dialing method can be set:

- Dual tone multifrequency (DTMF) with long flash key function (230 ms)
 - Dual tone multifrequency (DTMF) with short flash key function (90 ms)
- Successful setting is confirmed by a positive acknowledge tone.

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming	shift 0	
2	Enter code number for DTMF, long flash	5 3	
or	Enter code number for DTMF, short flash	5 4	

5.17 Booking Additional Handsets In / Out

Up to 5 handsets can be booked in to one base. Every handset is assigned a single-digit internal number under which it can be reached for internal calls or internal switching / conference. A base (base 1...4) must be selected first on the handset to be booked in (see 5.4). **The base selection may not be set to "Auto"!**

5.17.1 Booking In a Handset

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Base: press for longer than 10 s to activate the base paging key		Base LED flashes rapidly, approx. 1 minute to book in the new handset
2	Handset: Initiate programming, enter code number.	shift 0 1 1	
	Enter base PIN		

3	After an activated base has been found: Brief display of the internal number		
4	Handset is booked in and the programming ended automatically with the acknowledge tone		

5.17.2 Booking Out a Handset

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming, enter the code number	shift 0 5 1	
2	Enter the base PIN, numbers of the handsets which can be booked out are displayed.		
3	Select one of the displayed numbers, the appropriate handset is booked out and the programming is ended automatically with the acknowledge tone		

Every handset can be booked out by any other handset booked into the same base except by itself.

6 Operation in a Telecommunications System











The following points must be considered additionally to or differently to the operation of the telephone on a direct connection when operating in a telecommunications system.

6.1 Determining the Exchange Code



The necessary exchange access code can be stored to give direct access to the line for dialing from a memory (redialing memory / phonebook / call list / network operator code). Since this stored exchange code should also be dialed automatically when dialing manually, dialing within the system is only possible when the system can recognize by means of a special key (* or #) that an internal number is being dialed. This special key must be pressed before the phone number for internal calls. The exchange code can be deactivated by deleting it. However, if the exchange code is transmitted by the system together with the incoming phone number, no exchange code may be programmed. Please read the operating manual of your telecommunications system. If you have problems with the automatic exchange code you should delete it and save the exchange codes respectively as the first digit when you save the corresponding phone numbers (phonebook, network operator) or dial it manually as the first digit when dialing manually, dialing from the call list or from the redialing memory.

Initial state: Handset on standby

Operating steps:

No.	Description	Input	Display
1	Initiate programming	 	
2	Enter code number	 	
3	Enter exchange code, e.g. "0"		
4	Exit programming		

6.2 Entering the Dial Pause

You can enter a dial pause, which is often necessary for example after exchange codes, at the appropriate position with " ". It is 2 seconds long.

6.3 Dialing with Network Operator Code

The stored exchange code is pre-dialed automatically when you dial a number with a network operator code. For internal calls the empty memory ("00") must be selected for network operator codes.

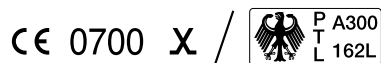
6.4 Operating in Systems with LCR (Least Cost Routing)

When operating in a system with LCR, please select an empty memory for the network operator code.

7 Appendix

7.1 License and CE Mark

The HomeHandy Topas S cordless telephone satisfies the basic requirements of all pertinent regulations of the European Commission. The prescribed conformity assessment procedures have been conducted.



RegTP Official Document 25/98 Vfg. 145/1998

General assignment of frequencies for use by the general public for cordless DECT telecommunications systems.

...

4. This general license applies for cordless telecommunications systems of the DECT system.

These may only be operated in the following frequency range:

System DECT 1880 – 1900 MHz

The specification of the 1880 – 1900 MHz frequency range in the frequency utilization plan applies initially for a period of 10 years and will be extended depending on European harmonization.

...

Low Voltage regulation [73/23/EWG]

Regulation 73/23/EEC of the Commission of the 19th of February 1973 to standardize the legal regulations of the member states concerning electrical equipment for use in certain voltage ranges; amended by 93/68/EEC.

The following harmonized standards have been consulted for conformity assessment.

EN 60950 (11/97)

Safety of information technology equipment including electric office machines (amended by A1-A4 and A11)

EN 41003 (06/97)

Special safety requirements in equipment for connection to telephone networks

EMC Regulation [89/336/EEC]

Regulation 89/336/EEC of the Commission of the 3rd of May 1989 to standardize the legal regulation of the member states concerning electromagnetic compatibility; amended by 91/263/EEC, 92/31/EEC, 93/68/EEC, 93/97/EEC.

The following harmonized standards will be consulted for assessing the conformity:

EN 50081–1 (03/93)

Elektromagnetische Verträglichkeit (EMV) : Fachgrundnorm Störaussendung / Teil 1

EN 50082–2 (03/95)

Elektromagnetische Verträglichkeit (EMV) : Fachgrundnorm Störfestigkeit / Teil 2

ETS 300 329 (06/97)

Radio Equipment and Systems (RES) Electro Magnetic Compatibility (EMC) for Digital Enhanced Cordless Telecommunications

Terminating Equipment Directive [91/263/EEC]

Directive 91/263/EEC of the Commission of the 29th of April 1991 for standardize legal regulations governing telecommunications terminating equipment including mutual recognition of their conformity, modified by 93/68/EEC, 93/97/EEC

The following harmonized standards will be consulted for assessing the conformity:

TBR 6 (97/523/EG) [CTR 6] ed 2

Decision of the commission of 9th of July 1997 about a common technical specification for general connection conditions for DECT terminating equipment

TBR 10 (97/524/EG) [CTR 10] ed 2

Decision of the commission of the 9th of July 1997 about a common technical specification for connection conditions for DECT terminating equipment - telephony

TBR 21 (98/482/EG) [Edition1]

Decision of the commission of 20th of July 1998 about a common technical specification for connection conditions for terminating equipment in which the network addressing may take place in dual tone multifrequency dialing method, to analog public telephone networks.

TBR 22 (97/525/EG) [CTR 22]

Decision of the commission of the 9th of July 1997 about a common technical specification for additional connection conditions for DECT terminating equipment with GAP (generic access profile) application

I-CTR 37 (1999/303/EG)

Decision of the commission of the 12th of April 1999 about a common technical specification for the connection of terminating equipment which supports speech telephony service in justified cases and whose network addressing may take place by characters in dual tone multi-frequency dialing (DTMF) to analog public telephone networks.

(Notified under file no. K (1999) 874)

APPENDIX II

"This device has been licensed for connection as a single terminating equipment to the public telephone network throughout Europe according to the decision 1999/303/EC of the Commission. On account of the differences existing between the public telephone networks of different member states, this license provides no absolute guarantee for successful operation of the device at any network terminating point.

Please contact your dealer if you have any problems with operation.

In addition the following national standards are observed:

BAPT 222 ZV 80 (11/95)

Licensing regulation for terminating equipment of the radio telephone service for connection to terminals with the following connection points

7.2 Technical Data

Standard:		DECT GAP
CLIP:		ETS-Standard
Transmission / reception frequency:		1880 – 1900 MHz
Range:		up to 300 m (in buildings up to 50 m)
Power supply:		Base 230 V \approx / 50 Hz, 11 VA (Power pack SNG 010 W)
Operating time (with fully charged batteries, 2 x 700 mAh):		on standby: up to 130 h (typ.) in conversation: up to 10 h (typ.)
Recommended ambient conditions:		+10° C – +40° C / 20% –75% rel. humidity
Dialing method:		DTMF; Flash key („national“)
Dimensions:	Base Handset	WxHxD = 131 x 65 x 140 mm WxHxD = 58 x 160 x 33 mm
Weight:	Basis Handset	220 g 160 g (incl. batteries)
Length of the connecting cable:		Power cable base 2 m Telephone connecting cable 3 m
Plug :	Telephone cable Power cable	National plug, Western plug on device side Power pack with Euro plug Western plug on device side
Storage temperature:		0° C – +55° C

7.3 Cleaning and Care

Simply wipe the plastic parts with a slightly damp cloth or an antistatic cloth; do not use a dry cloth and avoid using cleaning and scouring agents.

7.4 List of code numbers and necessary PINs

	Code	PIN
Change handset PIN	10	Handset
Book in new handset	11	Base
Select base	12	-
Key click on/off	13	-
Delete the last redialing number	14	Handset
Delete all redialing numbers	15	Handset
Delete all phonebook entries	16	Handset
Delete the local call list	17	Handset
Reinstate as-delivered state (handset)	18	Handset
Program the tone call melody (internal calls)	19	-
Program the tone call melody (trunk calls)	20	-
Program the tone call volume (internal calls)	21	-
Program the tone call volume (trunk calls)	22	-
Program the network operator code	23	-
Switch to local call list	24	-
Switch to base call list	25	-
Set the battery type	30	-
Change the base PIN	50	Base
Book out handset	51	Base
Set DTMF dialing, long flash	53	-
Set DTMF dialing, short flash	54	-
Delete base call list	55	Base
Delete and deactivate exchange line seizure	57	Base
Delete call costs	58	Base
Reinstate as-delivered state (base)	59	Base
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Display total call costs	67	-
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Program call cost factor	69	Base

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Service

If the operating manual is no help, if you want to contact our Service Center, have any questions about installation, programming or accessories, want to buy spares or accessories or have problems with your phone, please contact the Hagenuk Customer Services:

Phone: 01 80 – 5 43 51 00
(0,24 DM/Minute)

Fax: 04 31 – 88 18 – 3 02

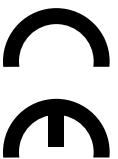
Email: [service @ hagenuk.de](mailto:service@hagenuk.de)

If you find a defect in your Power-HomeHandy Topas S which cannot be remedied by talking to our hotline, send in the complete unit (handset, base and charging station and power supply units) with a copy of the receipt and a short description of the fault to the following address:

Hagenuk GmbH
Kundenbetreuung / Service Center
Westring 431
24118 Kiel

Please have the serial number of your phone (on the bottom of the base / handset battery compartment) at the ready when making telephone inquiries to Customer Services.

Please see the enclosed service card for further information on services.



This equipment satisfies EU regulations:

89/336/EWG „Elektromagnetische Verträglichkeit“
73/23/EWG „Elektrische Betriebsmittel zur Verwendung innerhalb
bestimmter Spannungsgrenzen“
91/283/EWG „Telekommunikationsendeinrichtungen“

Hierfür trägt das Gerät das CE – Zeichen.

Technische Änderungen vorbehalten

Hagenuk GmbH
Westring 431
D 24118 Kiel

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