



# Telkom *Topas*



DIGITAL ENHANCED CORDLESS TECHNOLOGY TELEPHONE

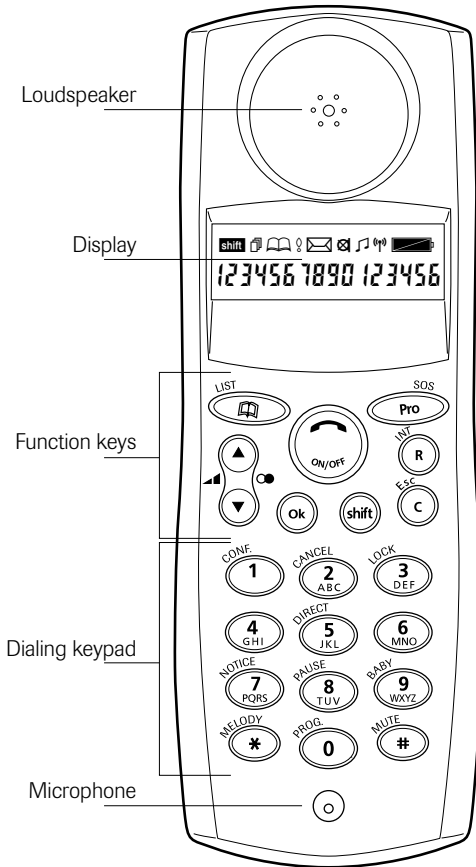
CALLER LINE  
IDENTIFICATION



**ICASA**  
Approved

[www.topas.co.za](http://www.topas.co.za)

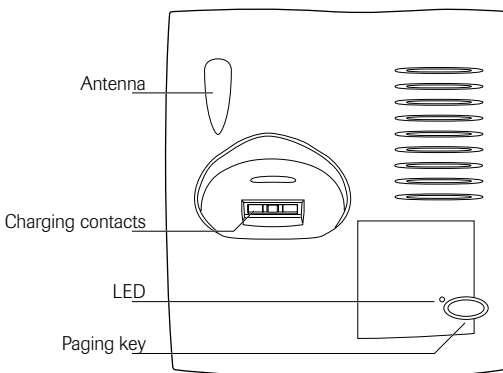
## Handset



## List of Features

- Single dialing / Block dialing
- Linking of phone numbers from the phonebook, redial, call list\*, manual dialing
- Phonebook with 20 entries of 30 characters
- Call list\*: 20 entries
- Redial the last 10 phone numbers
- Display the phone numbers for incoming calls\*  
Caller Identification (Subscription is required, call 10219)
- Protection against unauthorised use by call barring
- 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)
- Page function

## Base station



\* Network dependent

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\* Network dependent

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\* Network dependent

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# 1 Introduction

Dear customer,

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

You can connect your new telephone immediately to an analogue telephone terminal and phone. You should however read this operating manual thoroughly to get the best use out of your phone. We also recommend that you make check basic settings before using it for the first time. Read the chapter "2.1 Installation guide".

The Telkom Topas is a cordless telephone based on the DECT – GAP standard.

It consists of the base and one or more (up to 5 optional) handsets. The base serves as a charging station for the handset. Extra charging stations are available as accessories. Call 0800 22 33 23 to order any accessories.

Speech is coded according to the DECT standard, which 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 for set-up procedures.

Some of the features described here depend on the support of the respective network operator (e.g. cli, call list, network operator codes, call charge data registration, etc.). If you should have any questions regarding this, please contact your network operator. To subscribe to any services offered by your network, dial 1 0219.

## 2 Safety Notes

### 2.1 Installation guide

#### Location

When choosing the location for the Telkom Topas base, you should observe the following important information:

- Avoid the immediate vicinity of CD players, VCRs, TVs, computers and microwaves. Also avoid the vicinity of satellite receivers and answer-phones 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 centre of the range in which you want to operate the 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 Telkom LPU 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.

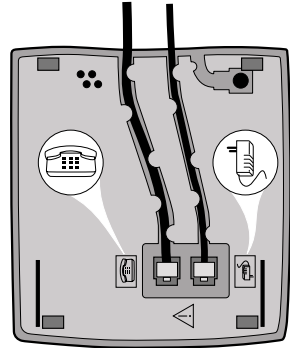
Please also note:

- The phone can cause interference and noise in hearing aids.
- The Telkom Topas cannot be used during power failures because there is no power supply to the base.
- Since speech is transmitted between the handset and the base by radio and radio connections which 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.

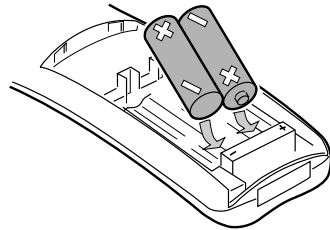
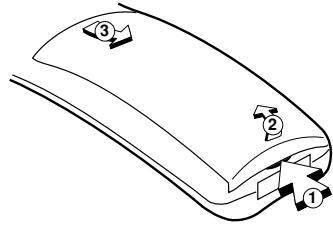


**Only use the Telkom adaptor model TOPLPU provided.**

## 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 area 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 (Please check the 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 snaps into place.

Place the handset on the charger / 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 change any settings (charge for at least 6 hours).



- **Make sure you insert batteries of the same type, the same capacity and the correct polarity. Do not use alkaline batteries.**
- **Never operate the handset with the battery compartment open!**
- **Never place the handset on the charging / base station with the battery compartment open!**
- **Only use Nicad or Metal Hydride type batteries.**

## Recommended first steps

Although your telephone will be 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 5.11)

If necessary you should then:

- determine a call cost factor\* (see 5.6.1)

\* Network dependent

## 2.2 Charging and handling the batteries

The handset batteries must be charged in new telephones 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 (Nicaid or Metal Hydride) 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 an initial 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 an incorrect setting (see 5.1). The least times that you place 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.



**Please take care when disposing of batteries.**

## **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 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 options of the telephone are described in the chapter "Programming".

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 Included**

#### **Telkom Topas**

- 1 handset
- 2 batteries, size AA, 1200 mAh NiMH
- 1 base
- 2 telephone cords
- 1 shirt clip
- 1 operating manual
- 1 Lightning Protection Unit

### 3.3 Accessories





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

- A belt clip makes it easy to carry around your personal handset
- An additional charging station extends the maximum radius of your handset by allowing it to be recharged in a central position. A mains socket is required for operation.
- Additional, turn your cordless telephone into a communication centre with up to 4 other additional handsets.

To order any accessories, dial 0800 22 33 23.









### 3.4 Controls and Indicators

#### 3.4.1 Keypad








Numeric keys  ... , , 



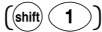
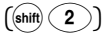
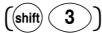
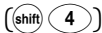

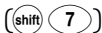
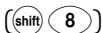
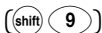
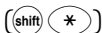
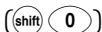
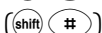
– to enter the phone numbers

Function keys

-  Phonebook
-  Network operator code (network dependent)
-  Connection set-up or disconnection / ON / OFF key
-  Standby: Call and scroll in the redial memory  
In connect state: adjust the volume  
During programming: select memory slots, programming alternatives for positioning the cursor
-  Confirm selection, save a programmed function
-  Change function level
-  Signal key for flash function
-  Clear key











Special functions

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

INT		Dial an internal number (when operating several handsets on one base)
ESC		Exit 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
		Prefix dialing in Tone mode
DIRECT		Activate/deactivate direct call mode with a programmed phone number
NOTICE		Call the notebook function
PAUSE		Insert a dial pause (usually when operating behind telecommunications system / duration: 2 seconds)
BABY		Activate / deactivate the babyphone mode
MELODY		Adjust the tone call melody of the handset
PROG.		Start programming mode
MUTE		Switch microphone off / on (mute)

### 3.4.2 Display

top line: display state with 8 symbols  
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	 Battery fully charged
 Direct call or babyphone active, flashes when programming	 Battery ready to operate
	 Battery almost empty
	 (flashes rapidly) battery requires recharging

### 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 new handset registration

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 convenience.

#### **Redialing**


The redial memory contains the last ten dialled phone numbers (also those dialled 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 last phone number dialled. You can scroll in the redial memory with the arrow keys.

The redial 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 5.2).

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 connection (CLI / dependent on the network user). If there are calls in the call list, the symbol  appears in the display. You can dial these phone numbers directly. The call list distinguishes between old and new 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. If all memory slots are occupied, the old 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 automatically cleared. The call list consists of 20 memory slots of 30 digits each.

## Network operator codes (network dependent)

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 dialled 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 dialled unchanged.

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

### 3.4.5 Tones

#### Acoustic signals when telephoning:

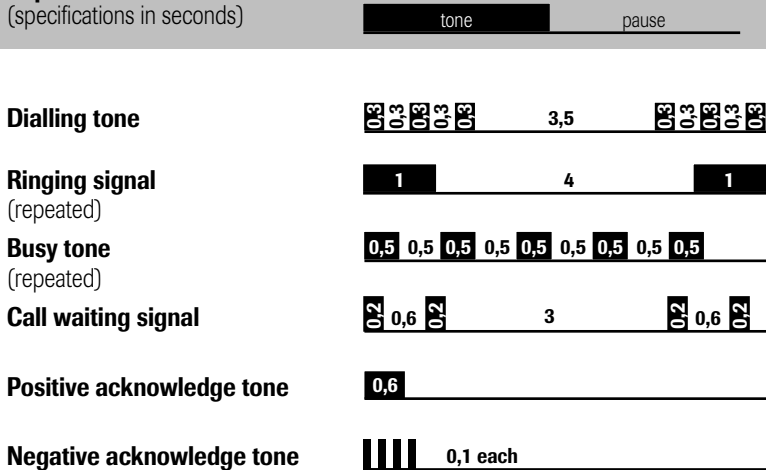
- You hear the dial tone when you press the  key
- You hear the ringing tone if the called number is free.
- The busy tone is heard if the called number is engaged.
- The call waiting signal alerts you to a further incoming call during a conversation (subscription may be required for this facility).

#### 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 Telkom Topas telephone is delivered with the following factory settings:

#### Handset








Phonebook	no entries
Redialing	no entries
Call list	no entries
Network operator code	no entries
Tone call melody (ext.)	2
Tone call volume (ext.)	5
Earphone volume	3 (medium)
Key click	on
Telephone lock	off
Call list	Handset
Permanently set network operator code	none
Battery type	auto
Handset - PIN	0 0 0 0

#### Base











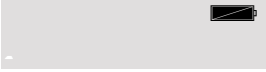


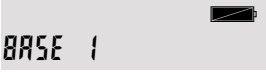


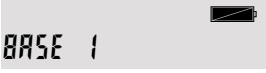
Call list	no entries
Dialing method	DTMF, Flash short
Call cost factor	0.01
Exchange code	no entries
Base - PIN	0 0 0 0

### 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) or 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 (paragraphs shown in brackets):

### **Outgoing call (4.1)**

- Dialing (after line seizure) (4.1.1)
  - Internal call (4.1.1.1)
- Dialing preparation (4.1.2)
- Using a stored telephone number (4.1.3)  
(call list, phonebook, redialing memory)
- Linking of phone numbers (4.1.4)
- Dialing with network operator code (4.1.5)
- Dialing emergency numbers (4.1.6)
- Direct call (4.1.7)

### **Incoming call (4.2)**

- External call (4.2.1)
- Internal call (4.2.2)

### **During a call (4.3)**

- Camping on during an internal call (4.3.1)
- Three-party conference (4.3.2)
- Adjusting the earphone volume (4.3.3)
- Brokerage (4.3.4)
- Switching the microphone on / off (muting) (4.3.5)
- Notebook function (4.3.6)
- Switching to an internal party (4.3.7)

### **Ending a call (4.4)**

### **Other functions (4.5)**

- Switching babyphone on / off (4.5.1)
- Switching direct call on / off (4.5.2)
- Viewing call costs for the last call (4.5.3)
- Viewing total call costs (4.5.4)
- Switching off the handset (4.5.5)
- Paging (4.5.6)
- Switching the key lock on / off (4.5.7)
- Telephoning with full bar switched on (4.5.8)
- Suffix dialing in DTMF mode (4.5.9)

## 4.1 Outgoing Call




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

### 4.1.1 Dialing (after line seizure)

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 Internal Call


If several handsets are registered to 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 5.16).

*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 convenience 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 once 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 dialled.

*Initial state: Handset on standby*

*Operating steps:*

No.	Description	Input	Display
1	Memory selection <b>Redialing:</b>	Press  /  until the desired phone number is displayed	
	or <b>Phonebook:</b>	, scroll with  /  or select the desired number directly with   ...   ,	
	or <b>Call list:</b>	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	 ▲ / ▼ Ok	 02: 043 188 180 
or	Transfer a phone number from the call list	shift  ▲ / ▼ Ok	 022 1732 
or	Transfer a phone number from the redialing memory	shift ▲ / ▼ ▲ / ▼ Ok	987654 
or	Enter a phone number manually	 Ok	123456 
2	Set the cursor to the desired position if necessary	▲ / ▼	043 188 180 
3	Sequence with a phone number from the phonebook	 ▲ / ▼ Ok	 03: 45 10 
or	Sequence with a phone number from the call list	shift  ▲ / ▼ Ok	 022 1732 
or	Sequence with a phone number from the redialing memory	shift ▲ / ▼ ▲ / ▼ Ok	 987654 
or	Complete the phone number manually	 Ok	123456 

4	Dial the phone number		
or	Abort the dialing preparation	 	


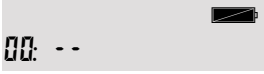







#### 4.1.5 Dialing with a Network Operator Code\*

When making a 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 "□" 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 dialled 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 4.1.1 or "Dialing preparation", see 4.1.2)		

## 4.1.6 Dialing the Emergency Numbers

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



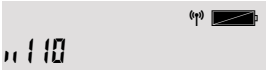





*Initial state: Handset on standby*

*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 signalled with the preset melody and volume on your handset. The caller's phone number appears in your display if it has been transmitted (CLI)\*. 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  has been disabled 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  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 signalled 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  to answer the call (press  to mute call)	




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

\* Network subscription may be required.

## 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  to answer the call (press  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 signalled by a call waiting signal (see page 15).

*Initial state: in internal call*

*Operating steps:*



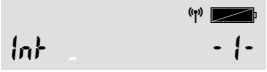





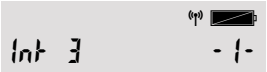

No.	Description	Input	Display
1	Call waiting during an internal conversation, display the caller's number (if transmitted)	Press  , internal connection is disconnected. Handset rings, press  to answer "camp on call"	
	or	Press   to answer the call, internal connection is held and continued after the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



### 4.3.2 Three-party Conference

You are in conversation with an external party and want to add an internal party to the conversation – you are in conversation 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 "reject" the internal party by pressing   again. He hears the busy tone. You carry on the conversation 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:*


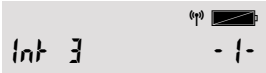
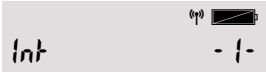

No.	Description	Input	Display
1	Increase / reduce earphone volume	▲ / ▼	

#### 4.3.4 Switching between internal and external calls

You are in conversation 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 can only talk to one other party at a time; your two partners cannot hear each other.

*Initial state: External call*

*Operating steps:*



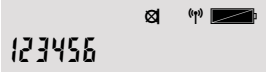
No.	Description	Input	Display
1	Initiate an internal call	(shift) R	
2	Dial the internal call number, the desired handset is called, the external call is held	1 ... 5	
3	After the internal party has answered, you can switch back and forth between the two connections.	(shift) R	 or 

### 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:*



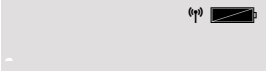




No.	Description	Input	Display
1	Switching the microphone on / off	 	

### 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:*



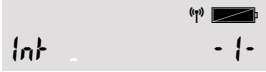


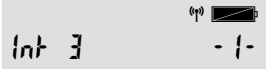




No.	Description	Input	Display
1	Call the notebook function	 	
2	Enter the number		
3	Terminate the procedure		

### 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:*


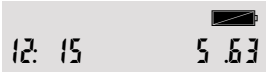
No.	Description	Input	Display
1	Initiate an internal call	 	
2	Dial the internal phone number, the desired handset is called	 ... 	
3	The internal party answers, announce switching, Disconnect		
or	Disconnect immediately without waiting for a reply		

#### **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 R 5.63.

*Initial state: in call*

*Operating steps:*

No.	Description	Input	Display
1	End call		

\* Network dependent






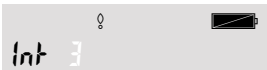







## 4.5 Other Functions

### 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 noise level (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 again. When the handset is in babyphone operation no calls are signalled 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	 	
2	Enter internal number if necessary	  + 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	 	

#### 4.5.2 Switching Direct Call On / Off

When the direct call is switched on a connection is set up to a previously programmed phone number (see 5.5) every time any key is pressed (except ). If 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	 	
2	Change the direct number if necessary		
3	Switch on direct call		

*Initial state: Direct call switched on*

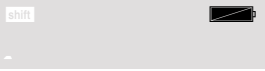
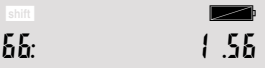

*Operating steps:*

No.	Description	Input	Display
1	Switch off direct call	 	

### 4.5.3 Displaying Call Costs for the Last Call

*Initial state: Handset on standby*

*Operating steps:*




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

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

### 4.5.4 Displaying the Total Call Costs (Network dependent)


*Initial state: Handset on standby*

*Operating steps:*

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

received 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, press the page 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	 	

*Initial state: Keypad locked*


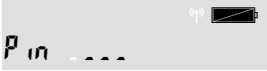






*Operating steps:*

No.	Description	Input	Display
1	Switch off key lock	 	

### 4.5.8 Telephoning with activated call bar




You have barred your handset against unauthorised 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		

### 4.5.9 Activating Prefix Dialing in DTMF Mode

If there are any devices to be controlled by DTMF signals during a conversation (e.g. an answering machine), please use the programming procedure:

No.	Description	Input	Display
1	Activating prefix dialing in DTMF mode	 	

## 5 Programming

In this section the following programming is described:

- Setting the battery type (5.1)
- Call list: Delete entries (5.2)
- Adjusting the babyphone sensitivity (5.3)
- Selecting the base (5.4)
- Programming the direct call number (5.5)
- Call costs (5.6)
  - Determining the call costs factor (5.6.1)
  - Resetting the call costs counter (5.6.2)
- Handset tone call: melody and volume (5.7)
- Earphone volume: basic setting (5.8)
- Network operator code (5.9)
  - Saving network operator codes (5.9.1)
  - Programming fixed network operator codes (5.9.2)
- Selecting emergency numbers (5.10)
- Changing the PIN (5.11)
- Reset function (5.12)
  - Clearing the dialing memory in the handset (5.12.1)
  - Resetting the handset to the as-delivered state (5.12.2)
  - Deleting various settings in the base (5.12.3)
  - Resetting the base to the as-delivered state (5.12.4)
- Switching the key click on / off (5.13)
- Phonebook (5.14)
  - Saving new entries (5.14.1)
  - Editing / deleting entries (5.14.2)
- Switching the full bar on / off (5.15)
- Booking additional handsets in / out (5.16)
  - Booking in a handset (5.16.1)
  - Booking out a handset (5.16.2)
- Setting the dialing method (5.17)


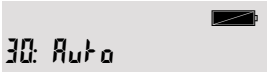


## 5.1 Setting the Battery Type

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 the possible capacity 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 selectable 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	shift 0	
2	Enter code number	3 0	
3	Select a new setting with the arrow keys	▲ / ▼	
4	Save the setting	Ok	








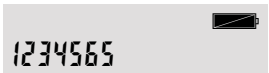






## 5.2 Call List: Deleting Entries

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:*



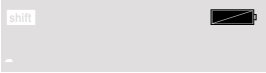










No.	Description	Input	Display
1	Call the call list	 	
2	Select the desired entry	 / 	
3	Delete the entry	Press  longer than 2 s	
4	Select another entry	 / 	
or	Exit the function	 	

### 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	 	
2	Select babyphone	 	
3	Set the sensitivity (1...9), the higher the number, the greater the microphone	 ...  or  /  The number flashes as soon as the current noise level has released a call	
4	Save the setting		












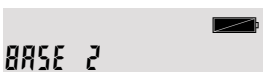
### 5.4 Selecting the Base

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 5.16). 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	 	
2	Enter the code number, the current base number flashes	 	
3	Enter the new base number	 ...  or  = ("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	   	 Before entering a new number the old one must be deleted.
2	Edit phone number / enter new one	 = delete digits  > 2s = delete no.	

or	Transfer phone number from the phonebook	  /  or    ...  	 01: 123456 
or	Transfer phone number from the redialing memory	  / 	 345678 
or	Transfer phone number from the call list	   / 	 987654 
or	Enter internal phone number	  + internal number	 Int 3 
3	Save the setting		 BASE 1 





### 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

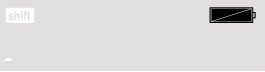
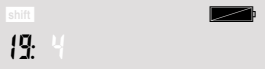
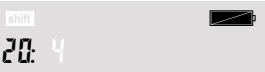

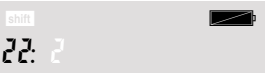


You can set the tone call in your handset to the following versions:

- Set. 0 – only a short bleep is emitted
- Set. 1 ... 6 – various ringing tones
- Set. 7 ... 9 – short melodies.

You can select different settings for signalling 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 (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:**



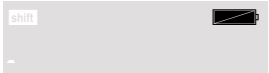





You can also set the tone call (melody) for external calls with "shift \*".

**5.8 Earphone volume: Basic Setting**


With this programming function you can change the earphone volume.

*Initial state: Handset on standby*


*Operating steps:*

No.	Description	Input	Display
1	Initiate programming	 	
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		

## **5.9 Network Operator Code (Country specific)**

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 dialled numbers which begin with "0" unless you define another network operator code for the following call only with the  key (this selection has a higher priority than the fixed number). Please note that the actual phone number is always dialled unchanged.

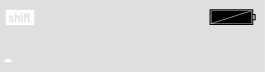
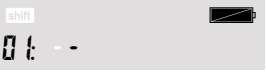


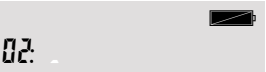

In order to provide a possibility for dialing without such a prefixed number even for stored network operator codes, there is a write-protected memory slot ("00") which is always "empty" and which can be fixed or freely selected.

If a network driver code is activated a "0" 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  key and another one selected with the arrow keys if necessary. Network operator codes are identified by a "0" at the beginning.

### 5.9.1 Storing Network Operator Codes

*Initial state: Handset on standby*

*Operating steps:*






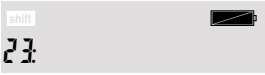





No.	Description	Input	Display
1	Initiate programming	shift 0	
2	Press the "Pro" key, select and confirm the memory slot	Pro, ▲ / ▼, Ok	
3	Enter a new number or make corrections and confirm	1 ... 0, or c, Ok	
4	Save the phone number (select another memory slot if necessary, continue with step 2)	Ok	
or	Cancel programming of the phone number (continue with step 3)	shift c	
or	Exit / cancel programming	shift 2	

### 5.9.2 Programming Fixed Network Operator Code

A fixed network operator code is automatically prefixed to every dialled 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	 	
2	Enter code number	  ,	
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 dialled even when the full call barring is activated.

*Initial state: Handset on standby*

*Operating steps:*

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






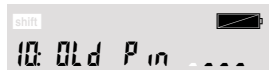









The same procedure is necessary to reconvert a marked phone number. The character „ disappears in front of the number.

## 5.11 Changing the PIN

The access to various programming functions are protected against unauthorised access by a PIN (Personal Identification Number, 4-digits) to protect settings. The base and the handset have their own PIN settings which are set to "0000" in the factory set-up. 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 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		
4	Enter new PIN twice in succession		

When the new PIN has been entered correctly, the handset returns to the standby mode 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 points / see handset functions)

Base functions



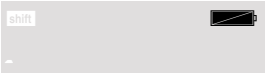



- delete the call list in the base
- delete the exchange line seizure / deactivate the exchange line seizure (system operation)
- reset the base to the factory preset (delete the user data including all above points / see base functions).

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

### 5.12.1 Deleting the Dial Memory in the Handset

*Initial state: Handset on standby*

*Operating steps:*

No.	Description	Input	Display
1	Initiate programming	 	
2	Delete the last redial entry	 	

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 delivered state

*Initial state: Handset on standby*

*Operating steps:*



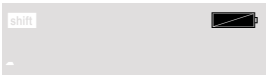


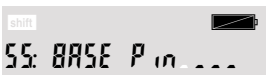


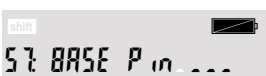




No.	Description	Input	Display
1	Initiate programming	(shift) (0)	
2	Reset to the delivered state	(1) (8)	
3	Enter the handset PIN		
4	Confirm resetting	(Ok)	

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	 	
2	Delete call list in the base	 	
or	Delete exchange line seizure	 	
3	Enter base PIN		
4	Confirm deletion		

### 5.12.4 Resetting the Base to the delivered state

*Initial state: Handset on standby*

*Operating steps:*



No.	Description	Input	Display
1	Initiate programming	 	
2	Reset to the delivered state (factory reset)	 	
3	Enter base PIN		
4	Confirm resetting		

### 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 with a maximum of 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 dialled 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.



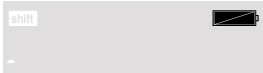

















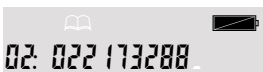











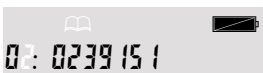






Phone numbers from other sources (redialing memory, call list) and supplementary digits added manually, e.g. a specific extension number.

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

## 5.14.1 Saving New Entries

*Initial state: Handset on standby*



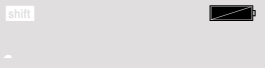
















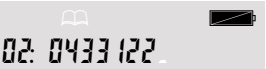









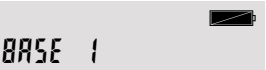
*Operating steps:*

No.	Description	Input	Display
1	Initiate programming	 	
2	Select phone-book		
3	Select memory slot and confirm	 /  or   ...   	
4	Enter the phone number manually	 ... 	
and/ or	Transfer from the redial memory	  /  	
and/ or	Transfer from the call list	   /  	
and/ or	Edit the phone number	 /  ... 	
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	 	

5.14.2 Editing / Deleting Entries

*Initial state: Handset on standby*

*Operating steps:*




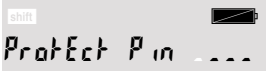


No.	Description	Input	Display
1	Initiate programming	 	
2	Select phone-book		
3	Select memory slot and confirm	 /  or   ...   	
or	Delete phone number	 longer than 2 s	
4	Edit the phone number	 /   / 	
or	Delete phone number	 longer than 2 s	
5	Save the phone number (select another memory slot if necessary,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

## 5.15 Switching Full Call Bar On / Off

With the full call 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 dialled and the handset "switched off" (see 4.5.5). See 4.5.8 for telephoning with full call bar activated.


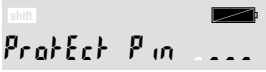


*Initial state: Handset on standby*

*Operating steps:*

No.	Description	Input	Display
1	Initiate programming	 0	
2	Enter the code number for the full call bar	 3	
3	Enter the handset PIN; the full call bar is activated		

*Initial state: full call bar is activated*

*Operating steps:*

No.	Description	Input	Display
1	Enter the code number for full call bar	 3	
2	Enter the handset PIN; the full call bar is switched off		



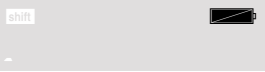




## 5.16 Booking Additional Handsets In / Out

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"!**

### 5.16.1 Booking In a Handset

*Initial state: Handset on standby*







*Operating steps:*

No.	Description	Input	Display
1	<b>Base:</b> Activate base paging key for longer than 10 secs		Base LED flashes rapidly, approx. 1 minute to book in the new handset
2	<b>Handset:</b> Initiate programming, enter code number.	 	  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		

## 5.16.2 Booking Out a Handset

*Initial state: Handset on standby*

*Operating steps:*

No.	Description	Input	Display
1	Initiate programming, enter the code number	 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.

### 5.17 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)
- If your telephone line is connected to an older Public Switched Telephone Network (PSTN) it is necessary to use pulse dialing instead of DTMF.

Successful setting is confirmed by a positive acknowledge tone.

This mode will be preserved even if the power supply has been disconnected.

*Initial state: Handset on standby*

*Operating steps:*

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

## 6 Operation behind a telephone system (PABX)











The following points must be considered if operating the Telkom Topas behind a telephone 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 dialled automatically when dialing manually, dialing within the system is only possible when the system can recognise by means of a special key (\* or #) that an internal number is being dialled. 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 (PABX). 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 "Ⓢ 8". It is 2 seconds long.

## **6.3 Dialing with Network Operator Code**

The stored exchange code is pre-dialled 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 Telkom Topas 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 utilisation plan applies initially for a period of 10 years and will be extended depending on European harmonisation. ...

### **ICASA**

The telephone has also been licensed by ICASA for use in South Africa.

### **Low Voltage regulation [73/23/EWG]**

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

The following harmonised 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 standardise 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:

#### **ETS 300 329 (06/97)**

Radio Equipment and Systems (RES) Electro Magnetic Compatibility (EMC) for Digital Enhanced Cordless Telecommunications (DECT) equipment –[Emission; Immunity]

## **Terminating Equipment Directive [91/263/EEC]**

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

The following harmonised 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 analogue 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 multifrequency dialing (DTMF) to analogue 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
CLI (Calling Line Identification):		ETS-FSK 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 TOPLPU)
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 (Tone) / Pulse; Flash key
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 2 m
Plug:	Telephone cable  Power cable	RJ11 modular plug  Power pack with 3 pin SA version and integrated LPU
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
Pulse dialing mode	52	–
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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## **7.6 Warranty and Support**

If you purchased the Telkom Topas new from a retail outlet, Phonetech warrants the product against defects in material and workmanship for a period of one (1) year from the original date of purchase. This warranty begins when you purchase the product and continues for one (1) year from the original date of purchase. This warranty is not transferable.

Phonetech disclaims any implied warranty, including the warranty of merchantability and the warranty of fitness for a particular purpose, as of the date of one year from your original purchase and Phonetech assumes no responsibility for any special, incidental, or consequential damages.

This warranty does not include damage to the product resulting from acts of God, accident, misuse, improper installation or operation or alteration. The warranty therefore does not include damage due to lightning and power surges if the Lightning Protection Unit Model TOPLPU is not connected to the telephone.

If the product should become defective within the warranty period, Phonetech will elect to repair or replace it free of charge at their option against proof of purchase.

Please retain the original packaging should you require it in future for shipping of the telephone. Include your proof of purchase or the completed warranty on the carton should you require service within the warranty period.

Contact our customer support for support at 0800 22 33 23 on weekdays from 08H30 to 18H00 (excluding public holidays).

This product is supplied and serviced by



FREE CALL SUPPORT 0800 22 33 23

[www.topas.co.za](http://www.topas.co.za)



This equipment satisfies EU regulations:

89/336/EEC "Electromagnetic compatibility"

73/23/EEC "Electrical equipment for use within certain voltage limits"

The unit bears the CE mark in this respect.