

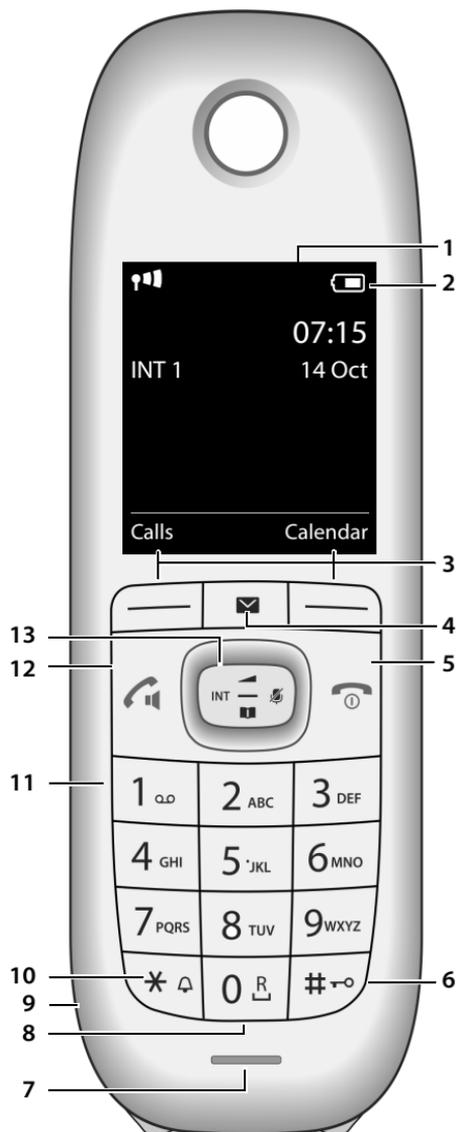
# User manual

## Twist 654



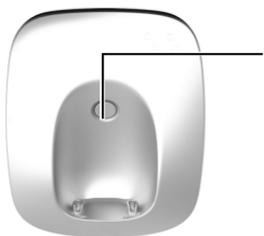
# Overview of Twist 654

## Handset



- 1 **Display in idle status**
- 2 **Status bar** ( → page 48)  
Icons display current settings and operating status of the phone
- 3 **Display keys** ( → page 15, → page 29)
- 4 **Message key** ( → page 16)  
Access to the calls and message lists;  
**Flashing:** new message or new call
- 5 **End call key, On/off key**  
End call;  
Cancel function;  
Go back one menu level (press **briefly**);  
Back to idle status (press and **hold**);  
Switch handset on/off (press and **hold** in idle status)
- 6 **Hash key**  
Keypad lock on/off (press and **hold** in idle status);  
Toggles between upper/lower case and digits;  
Insert a dialling pause (press and **hold**)
- 7 **Microphone**
- 8 **Recall key**  
Consultation call (flash) (press and **hold**)
- 9 **Connection socket for headset** ( → page 11)
- 10 **Star key**  
In idle status: Ringtone on/off (press and **hold**);  
With an open connection: switch from pulse dialling to tone dialling (press **briefly**);  
When inputting text: Open special characters table
- 11 **Key 1**  
Select network mailbox (press and **hold**)
- 12 **Answer call key / Handsfree key**  
Dial number displayed;  
Accept call;  
Switch from earpiece to handsfree mode;  
Open the redial list (press **briefly**);  
Start dialling (press and **hold**);
- 13 **Control key / Menu key** ( → page 14)

## Overview of Twist 654



### Registration/paging key

- ◆ Locate handsets ("Paging") (press **briefly**) → page 34.
- ◆ Register handsets and DECT devices (press and **hold**) → page 33.

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## Safety precautions

### Warning

Read the safety precautions and the user guide before use.

Explain their content and the potential hazards associated with using the device to your children.

	<p>Use only the power adapter indicated on the device.</p>
	<p>Use only <b>rechargeable batteries</b> that correspond to the <b>specification</b> (see "Specifications"). Never use a conventional (non-rechargeable) battery or other battery types as this could result in significant health risks and personal injury. Rechargeable batteries, which are noticeably damaged, must be replaced.</p>
	<p>Using your telephone may affect nearby medical equipment. Be aware of the technical conditions in your particular environment, e.g. doctor's surgery. If you use a medical device (e.g. a pacemaker), please contact the device manufacturer. They will be able to advise you regarding the susceptibility of the device to external sources of high frequency energy (for the specifications of your product see "Specifications").</p>
	<p>Do not hold the rear of the handset to your ear when it is ringing or when speaker mode is activated. Otherwise you risk serious and permanent damage to your hearing. Your telephone is compatible with the majority of digital hearing aids on the market. However, perfect function with all hearing aids cannot be guaranteed. The phone may cause interference in analogue hearing aids (humming or whistling) or cause them to overload. If you require assistance, please contact the hearing aid supplier.</p>
	<p>The devices are not splashproof. For this reason do not install them in a damp environment such as bathrooms or shower rooms.</p>
	<p>Do not use the devices in environments with a potential explosion hazard (e.g. paint shops).</p>
	<p>If you give your telephone to a third party, make sure you also give them the user guide.</p>
	<p>Remove faulty devices from use or have them repaired by our Service team, as these could interfere with other wireless services.</p>
	<p>Do not use the device if the display is cracked or broken. Broken glass or plastic can cause injury to hands and face. Send the device to our Service department to be repaired.</p>



To prevent loss of hearing, avoid listening at high volume over long periods of time.

**Please note**

- ◆ The device cannot be used in the event of a power failure. It is also **not** possible to transmit **emergency calls**.
- ◆ Emergency numbers **cannot** be dialled if the **keypad/display lock** is activated!

## Getting started

### Checking the contents of the package

- ◆ One **base station**,
- ◆ One power adapter for the base,
- ◆ One phone cord with plug,
- ◆ One **handset**,
- ◆ One battery cover (rear cover for the handset),
- ◆ Two batteries,
- ◆ One rubber seal for the headset connection,
- ◆ One user guide.

### Setting up the base station

The base is designed for use in closed, dry rooms in a temperature range of +5°C to +45°C.

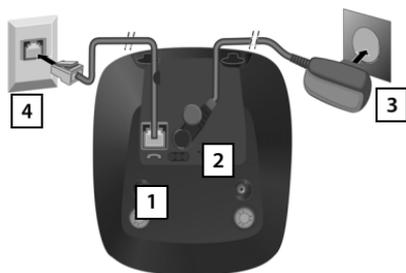
- ▶ Set up the base on a level, non-slip surface at a central point in the building or house, or mount the base on the wall (→ page 7).

The phone's feet do not usually leave any marks on surfaces. However, due to the multitude of different varnishes and polishes used on today's furnishings, marks on the surfaces cannot be completely ruled out.

#### Notes

- ◆ Never expose the telephone to the effects of heat sources, direct sunlight or other electrical devices.
- ◆ Protect your telephone from moisture, dust, corrosive liquids and fumes.
- ◆ Pay attention to the range of the base. This is up to 50 m inside buildings and up to 300 m in unobstructed outdoor areas. The range is reduced when **Maximum Range** is deactivated (→ page 31).

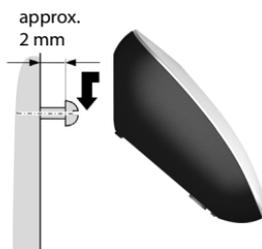
### Connecting the base station to the telephone network and the mains power supply



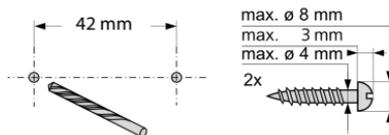
- ▶ Insert the phone cable into the connection socket **1** at the rear of the base until it clicks into place and feed under the cable protection.
- ▶ Insert the power cable for the power adapter into the connection socket **2** at the rear of the base and rotate the right-angle plug under the cable protection.
- ▶ Connect the power adapter **3**.
- ▶ Connect the phone jack using the phone adapter if necessary **4**.

**Notes**

- ◆ The power adapter must **always be connected**, as the phone will not operate without a power supply.
- ◆ Use only the **supplied** power adapter and phone cord. Pin connections on telephone cables can vary (pin connections, → page 58).

**Mounting the optional)**

(assembly materials not supplied)

**Setting up the handset for use**

The display is protected by a plastic film. **Please remove the protective film!**

**Inserting the rubber seal for the headset plug socket**

Open the battery cover and insert the rubber seal into the groove.

**Insert battery****Caution**

Use only rechargeable batteries, as this could otherwise result in significant health risks and personal injury. For example, the outer casing of the batteries could be destroyed or the batteries could explode. The phone could also malfunction or be damaged as a result of using batteries that are not of the recommended type.

## Getting started



- ▶ Insert the batteries with the polarity in the right direction (for correct +/- direction, see diagram).
  - ▶ First orientate the battery cover with the side tabs fitting into the slots on the inside of the casing.
  - ▶ Then press the cover until it clicks into place.
- If you have to **open the battery cover**:
- ▶ Grip the side hollows and slide the battery cover diagonally upwards.

## Charging the batteries

The batteries are supplied partially charged. Please charge completely before use. (The batteries are fully charged when the power icon ⚡ disappears from the display.)

- ▶ Charge the handset in the base for **8.5 hours**.



### Notes

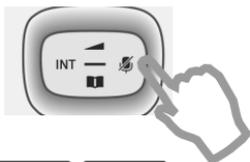
- ◆ The handset may only be placed in the designated base/charging cradle.
- ◆ The batteries may heat up during charging. This is not dangerous.
- ◆ After a time, the charge capacity of the batteries will decrease for technical reasons.
- ◆ The handset has already been registered to the base. If, however, this is not the case (display "Please register handset" or "Place handset in base"), please register it manually (→ page 33).

## Changing the display language

You can also change the display language via the menu:

 ▶  ▶ OK ▶  Language ▶ OK ▶  Select language ▶ Select

or, if you do not understand the language currently set, go to:



▶ Press right on the control key.



▶ Press keys **6 MNO** and **5 JKL** **slowly** one after the other.

### Example



The language selection display appears.  
The current language (e.g. English) is selected.



▶ Press the down control key  ...

### Example



... until the language you wish to use is displayed e.g. French.

▶ Press the **right** key, directly under the display, to select the language.

### Example

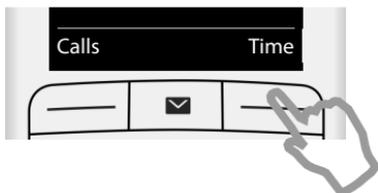


The selection is marked with .

▶ Press and **hold** the End call key  to return to idle status.

## Setting the date and time

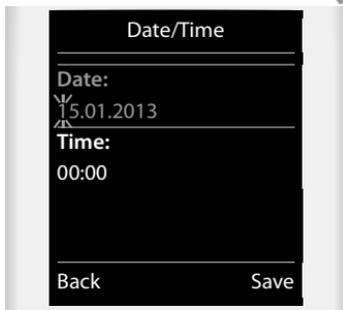
Set the date/time so that the correct date and time can be assigned to incoming calls, and so that you can use the alarm.



- ▶ Press the key **Time** below the display screen to open the input field.

(If you have already set the date/time, open the input field via the menu:

 ▶  ▶ **OK** ▶ **Date/Time** ▶ **OK**)



The submenu **Date/Time** is shown on the display.

- ▶ The active input position flashes.  
Enter the day, month and year as an 8-digit number via the keypad,  
e.g.  for 14.10.2014.

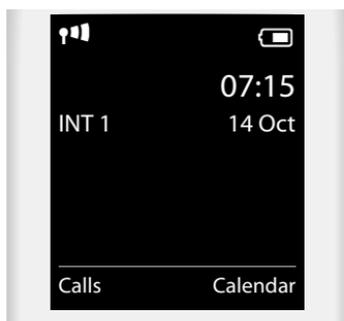
If you wish to change the input position, press **left**  or **right**  on the control key.



- ▶ Press the **down** control key to switch to the time input field.
- ▶ Enter the hours and minutes in 4-digit format via the keypad e.g.,  for 07:15 am.  
Change the input position with the control key if necessary.
- ▶ Press the key **Save** below the display screen to save the entry.



Display shows: **Saved**. You will hear a confirmation tone.



You will automatically return to idle status.

**Your phone is now ready for use.**

## Connecting the headset



You can connect a headset with 2.5 mm jack connectors.

### What would you like to do next?

After successfully setting up the phone, you can make calls straight away, customise your Twist according to your requirements or firstly familiarise yourself with the operation.

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#### Setting ringtones

Assign specific tunes to internal and external calls, reminders ( → page 27), wake-up calls ( → page 43) and to certain callers ( → page 36).

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#### Protecting yourself against unwanted calls

Set your phone up so that it doesn't ring if there is an anonymous call or use the time control ( → page 28).

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#### Register an existing Twist handset and add it to the phonebook

Use available handsets to continue calling from your new base. Transfer directory entries from these handsets to your new handset if possible ( → page 33, → page 37).

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#### Configuring ECO DECT settings

Reduce the transmission power (emissions) of your phone ( → page 31).

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**If you have any questions about using your phone, please read the tips on troubleshooting ( → page 54).**

## Understanding the operating steps in the user guide

The keys on your handset are set out in these operating instructions as follows:

 /  / 	Answer call key / Menu key / End call key
 to  <small>over</small> 	Number / Letter keys
 / 	Star key / Hash key
 / 	Message key / Recall key

Overview of display icons ( → page 48).

### Example: Activating/deactivating Auto Answer

Illustration in the user guide:

 ▶  ▶ **OK** ▶  **Telephony** ▶ **OK** ▶ **Auto Answer** ▶ **Change** (☑ = activated)

Follow this procedure:

- ▶ : With the handset in idle status, press the **right** control key to open the main menu.
- ▶ : Navigate to the  icon using the control key .
- ▶ **OK**: Press the display key **OK** or the middle of the control key  to open the submenu **Settings**.
- ▶  **Telephony**: Scroll to the entry **Telephony** with the control key .
- ▶ **OK**: Press the display key **OK** or the middle of the control key  to open the submenu **Telephony**.
- ▶ **Auto Answer**: The activate/deactivate auto answer function is selected.
- ▶ **Change** (☑ = activated): Press the display key **Change** or the middle of the control key  to alternate between activating or deactivating (☑ = activated, ☐ = deactivated).

## Operating the phone

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### Switching the handset on/off

- ▶ Press and **hold** the End call key  in idle status to switch the handset on or off.

### Locking/unlocking the keypad

The keypad lock prevents any accidental use of the phone. If you press a key when the keypad is locked, a message is displayed.

- ▶ Press and hold the  key to lock or unlock the keypad.

If a call is signalled on the handset, the keypad automatically unlocks, and you can accept the call. It then locks again when the call is finished.

### Control key

In the description below, the side of the control key (up, down, right, left, middle) that you have to press in the different operating situations is marked in black, e.g.  for "press right on the control key".

The control key allows you to navigate within menus and entry fields. In idle status or during an external call, it has the following functions:



#### When the handset is in idle status

-  Open the phonebook.
-  or  Open the main menu.
-  Open list of handsets.
-  Bring up the menu for setting the handset's call volume ( → page 20).

#### During an external call

-  Open the phonebook.
-  Initiate an internal consultation call.
-  Adjust the loudspeaker volume for earpiece and handsfree mode.

#### Functions when pressing the centre of the control key

The key has different functions, depending on the operating situation.

- ◆ **In idle status**, it opens the main menu.
- ◆ **In submenus, selection and entry fields**, the key takes on the function of the display keys **OK**, **Yes**, **Save**, **Select** or **Change**.

#### Note

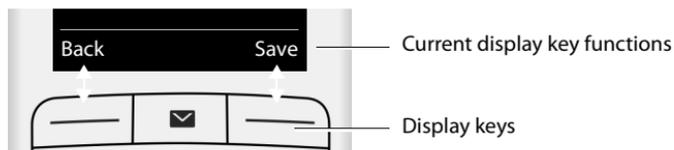
These instructions demonstrate opening the main menu by pressing the right of the control key and confirming the functions by pressing the appropriate display key. However, if you prefer, you can also press the middle of the control key.

## Display keys

The display keys have a function preset by default in idle status, but the keys can be re-assigned (→ page 29).

The functions of the display keys change depending on the operating situation.

Example



Some of the important display keys are:

- Options**      Open a menu for further functions.
- OK**            Confirm selection.
- Back**          Skip back one menu level or cancel operation.
- Save**          Save entry.

Overview of icons on the display keys (→ page 49).

## Menu guidance

The functions of your telephone are displayed on a menu that consists of several levels. Menu overview → page 50.

### Main menu (first menu level)

- ▶ When the handset is in idle status, press **right** on the control key to open the main menu.

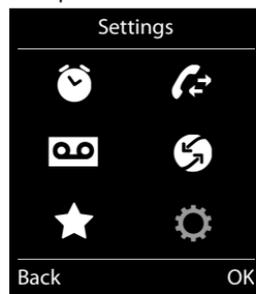
The main menu functions are shown in the display as icons. The icon for the selected function is highlighted and the name of the associated function appears in the display header.

Accessing a function, i.e. opening the corresponding submenu (next menu level):

- ▶ Use the control key to navigate to the required function and press the display key **OK**.

Returning to idle status: **Briefly** press the display key **Back** or End call key .

Example



## Operating the phone

### Submenus

The functions in the submenus are displayed as lists.

To access a function:

- ▶ Scroll to the function using the control key (⏮) and press **OK**.

Returning to the previous menu level: **Briefly** press the display key **Back** or End call key (⏮).

### Returning to idle status

From any menu:

- ▶ Press and **hold** the End call key (⏮).

Or:

- ▶ If you do not press a key, the display **automatically** returns to idle status after 2 minutes.

## Message lists

Any messages you receive are saved in the message lists. An advisory tone sounds as soon as a **new entry** appears on a list. The Message key also flashes (if activated, → page 26). Icons for message types and the number of new messages are shown on the idle display.

New messages available:

- ◆  On the network mailbox (→ page 32)
- ◆  In the missed calls list
- ◆  In the missed alarms list (→ page 42)

Open the message list by pressing the Message key (⏮). You can access the following message lists:

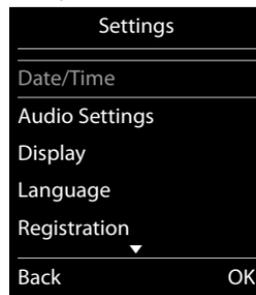
- ◆ **Mailbox:** Network mailbox (if your network provider supports this function and the number of the network mailbox has been stored.)
- ◆ **Missed Calls:** Missed call list (see "Call list" → page 39)
- ◆ **Missed Alarms:** Missed appointments list

The icon for the network mailbox is always displayed, provided the number is stored in the telephone. The other lists are only displayed if they contain messages.

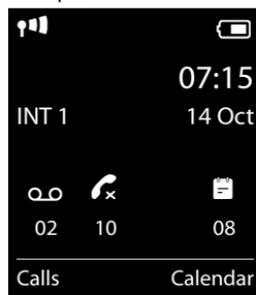
**Opening the list:** (⏮) Select required list. ▶ **OK**

**Exception:** If you select the **network mailbox**, the number of the network mailbox will be selected (→ page 32). Lists are not opened on the display.

### Example



### Example



## Entering numbers and text

If several number and/or text fields are displayed (e.g. **First Name** and **Surname** in a phonebook entry), the field is automatically activated. The following fields must be activated by navigating with the control key (↶). A field is activated when a cursor is blinking inside it.



### Correcting incorrect entries

- ◆ Deleting **characters** before the cursor: press the display key **<C** briefly.
- ◆ Deleting **words** before the cursor: press and **hold** the display key **<C**.

### Entering text

- ◆ **Letters/Characters:** Multiple letters and characters are assigned to each key between **0-9** and **0-9**. The characters are shown according to the key in a selection line at the bottom left of the display. The selected character is highlighted. Briefly press the key several times in succession to select the required letter/character.
- ◆ **Placing the cursor:** Letters/characters are inserted at the cursor position. You can insert the cursor by pressing the control key (↶), or (↷) in fields with multiple characters.
- ◆ **Typing lower case, upper case and numbers:** Press the hash key **#->** to switch between lower case, upper case or numbers for the **following letters**. When editing a phonebook entry, the first letter and each letter following a space is automatically in upper case.
- ◆ **Special characters:** Press the star key **\*->** to open the special characters table. Navigate to the character desired using the star key and press the display key **Insert** to select it.
- ◆ **Special letters:** Umlauts or other marked/diacritic characters can be selected by pressing the corresponding letter several times. See the character table → page 58.

# Making calls

## Making an external call

▶ Enter number, **briefly** press the Answer call key .

Or:

▶ Press and **hold** the Answer call key , enter number.

You can cancel the dialling process with the End call key .

## Dialling with the redial list

The redial list contains the 20 numbers last dialled with the handset. You can manage this similarly to your phone's message lists (→ page 16).

▶ Press the Answer call key  **briefly** to open the redial list.

▶  Select entry. ▶ Press the Answer call key . The number is dialled.

When a name and corresponding phone number are displayed: Press the display key **View**.

## Managing entries in the redial list:

▶ Open redial list. ▶  Select entry. ▶ **Options**

You can select the following functions:

◆ **Copy to Directory** ▶ **OK**

Copy an entry to the phonebook (→ page 36).

◆ **Display number** ▶ **OK**

Copy a number into the display and edit it or add to it, then select with  or save as a new entry in the phonebook with .

◆ **Delete entry** ▶ **OK**

Delete the selected entry.

◆ **Delete all** ▶ **OK**

Delete all entries.

## Dialling from the call list

 ▶  ▶ **OK** ▶  Select list. ▶ **OK**

▶  Select entry. ▶ 

▶ The number is dialled.

### Notes

- ◆ You can also bring up the call list using the display key **Calls**, but you must assign a display key accordingly (→ page 29).
- ◆ You can also open the list **Missed calls** using the Message key .

### Example



## Dialling with the phonebook

 ▶  Select entry. ▶ 

- ▶ If multiple numbers are entered: Select the number with  and press the Answer call key  or **OK**.
- ▶ The number is dialled.

## One touch call

You can set up your phone so that you can dial a specific number when you press **a key of your choice**. This allows children, who are unable to enter a number, to call a certain number, for example.

 ▶  ▶ **OK** ▶  **One Touch Call** ▶ **OK**

- ▶ **Activation:**  **On / Off**
- ▶ **Call to:** Enter or change the number that you wish to dial.
- ▶ **Save**

The activated One Touch Call appears on the idle display. The saved number is dialled by pressing any key. Press the End call key  to cancel dialling.

### Ending one touch call:

- ▶ Press the display key **OFF**. ▶ Press and **hold** the  key.
- Or:
- ▶ Press and **hold** the  key.

## Accepting a call

You have the following options:

- ▶ Press .
- ▶ If **Auto Answer** is switched on (→ page 26), remove the handset from the charging cradle.

## Accepting/rejecting call waiting

If you receive a call while conducting an external call, you will hear the call waiting tone. If the number is transferred, you will see this number or the name of the caller on the display.

- ▶ Rejecting a call: ▶ **Options** ▶  **Reject waiting call** ▶ **OK**
- ▶ Accepting a call: ▶ Press the display key **Accept**. You will then be speaking to the new caller. The previous call is placed on hold.

**Returning to the call on hold:** To end the current call and return to the call on hold, press .

### Caller display

If you have subscribed to Calling Line Identification, the caller's phone number is displayed. If the caller's number is stored in your phonebook, the number type and name are displayed.

Instead of name and number, the following is displayed:

- ◆ **External:** You have not subscribed to Calling Line Identification
- ◆ **Withheld:** Caller has withheld Calling Line Identification (→ page 22).
- ◆ **Unavailable:** the caller's phone number has not been transferred to Proximus for technical reasons.

### CNIP (Calling Name Identification Presentation)

If you have subscribed to CNIP, the registered name of the caller is displayed in **addition** to the number. The name of the phonebook entry appears if you have saved the number in the phonebook.

### Notes on phone number display for CLIP

By default, the number of the caller is shown on the handset of your telephone → page 55

### Handsfree mode

Activating/deactivating handsfree mode during a call and when establishing a connection:

- ▶ Press .

Placing the handset in the charging cradle during a call:

- ▶ Press and hold  for a further 2 seconds while placing the handset in the charging cradle.

### Adjusting the loudspeaker volume

- ◆ Accessing the settings **via the menu:**

 ▶  ▶ OK ▶  **Audio Settings** ▶ OK ▶ **Handset Volume** ▶ OK

- ▶ **Earpiece:**  Volume can be set at 5 levels for the earpiece.

- ▶ **Speaker:**  Set the volume at 5 levels.

- ▶ **Save**

- ◆ Accessing the settings **during a call** for the mode currently in use (handsfree, earpiece):

- ▶ control key  ▶ .

- ▶ The setting is saved automatically after 2 seconds or press the display key **Save**. The screen reverts back to its previous display.

## Switching the microphone on/off (muting)

If you turn the microphone off during a call, your caller can no longer hear you.

- ▶ Press  to switch the microphone on/off.

## Using Proximus-specific functions (network services)

Certain network services are only available after they have been requested from Proximus (which may incur additional charges). Network services fall into two distinct groups

- ◆ Network services that are activated for the following call or all subsequent calls when no call is being made (e.g. calling anonymously). You can easily activate/deactivate these network services via the menu .
- ◆ Network services that are activated during an external call, e.g., "consultation call", "swapping between two callers" and "setting up conference calls". These services are provided to you during an external call in the option slider (e.g **Ext. Call, Conf.**).

### Notes

- ◆ To activate/deactivate the network services, a code is generally sent to the telephone network.
  - ▶ After a confirmation tone from the telephone network, press .
- ◆ It is not possible to reprogram the network services.

### Setting network services

#### Withholding a phone number (CLIR - Calling Line Identification Restriction)

If you do not want to have your phone number displayed to the other caller, you can withhold the number (CLIR). Calling Line Identification is withheld until you deactivate the function again.

Activating/deactivating withheld number:

 ▶  ▶ OK ▶  All Calls Anonym. ▶ Change (☑ = activated)

Cancelling Calling Line Identification for the next call only:

 ▶  ▶ OK ▶  Next Call ▶ OK ▶ Withhold Number ▶ OK ▶ Dial the number ▶ Dial

Allowing Calling Line Identification for the next call only:

 ▶  ▶ OK ▶  Next Call ▶ OK ▶  Send Number ▶ OK ▶ Dial the number ▶ Dial

#### Returning a missed call

You can return the last missed call.

 ▶  ▶ OK ▶  Automatic Recall ▶ OK

#### Call waiting during an external call

If the function is activated, you will be notified whilst on an **external** call by a call waiting tone and a message on the display that another external caller is waiting.

Activating/deactivating call waiting:

 ▶  ▶ OK ▶  Call Waiting ▶ OK ▶ Status:  On / Off ▶ Send

### Network services during an external call

#### Call waiting during an external call

If the function is activated (→ page 22), you will be notified whilst on an **external** call by a call waiting tone that another external caller is waiting. If the number is transferred, you will see this number or the name of the caller on the display.

You have the following options:

▶ **Options** ▶  Reject waiting call ▶ OK  
The waiting caller hears the busy tone.

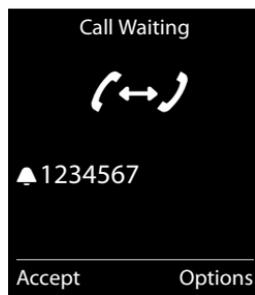
Or:

▶ **Options** ▶  Favour waiting call ▶ OK  
End the current call and accept the waiting call.

Or:

▶ **Accept**

Once you have accepted the waiting call, you can switch between the two callers ("Call swapping" → page 24) or speak to both at the same time "Conference call" → page 24).



## Callback

If you have dialled an external number and can hear the busy tone:

▶ **Options** ▶  **Ringback** ▶ **OK** ▶ 

As soon as the participant hangs up, your phone will ring.

▶ Press  to establish the connection to the participant.

**Cancel callback:**

 ▶  ▶ **OK** ▶  **Ringback Off** ▶ **OK**

## Making a consultation call

Make another external call during an external call. The first call is placed on hold.

▶ **Ext. Call** ▶ Enter the second participant's number.

The previous call is placed on hold. The second participant is called.

▶ If the second participant does not answer: Press the display key **End**.

Or:

▶ If the second participant does answer: You will then be speaking to the participant.

**Ending a consultation call:**

▶ **Options** ▶  **End active call** ▶ **OK**

You will be reconnected to the first call participant.

Or:

Press . You will receive a callback from the first participant.



## Making calls

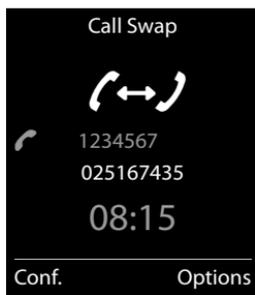
### Call swapping

Switching between two calls. The other call is placed on hold.

**Prerequisite:** You must be conducting an external call and have called a second participant (consultation call) or have accepted a waiting call.

The numbers or names of both participants are shown in the display. The participant that you are talking to at that point is indicated with the icon  and highlighted.

- ▶ You can switch between calls using the control key . The other call is placed on hold.
- ▶ Ending the current call:
  - ▶ **Options** ▶  **End active call** ▶ **OK**
  - You will be reconnected to the participant on hold.
  - Or:
  - Press . You will receive a callback from the participant on hold.



### Conference call

You will then be speaking to both participants at the same time.

**Prerequisite:** You must be conducting an external call and have called a second participant (consultation call) or have accepted a waiting call.

- ▶ Press **Conf.** You and the other two callers can hear and speak to each other simultaneously.
- ▶ End call with both participants: Press .
- Or:
- ▶ Return to call swapping: Press the display key **End Conf.**

You will be reconnected to the participant with whom you started the conference call.

Each of the participants can end their participation in the conference call by pressing the End call key and terminating the call.

### Transferring a call

This is available when call swapping, participating in a conference call, or making an external consultation call. You can connect both external participants.

- ▶ **Options** ▶  **Call Transfer** ▶ **OK**. Your call with both participants will end.

## Adjusting the telephone settings

The handset and base station are preconfigured, but you can change the settings to suit your individual requirements.

The settings can be changed via the menu **Settings** whilst on a call or in idle status.

### Changing the display language

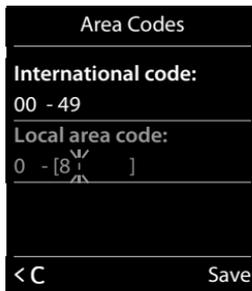
☰ ▶ ⚙ ▶ OK ▶ 🗣 Language ▶ OK ▶ 🗣 Select languages ▶ Select (● = selected)

### Setting your country and local area codes

Your area code (international and local area code) must be saved on the phone before you can transfer phone numbers (e.g. in vCards). Some of these numbers are already preset. Please ensure that the prefix is correctly separated from the rest of the area code.

☰ ▶ ⚙ ▶ OK ▶ 🗣 Telephony ▶ OK  
 ▶ 🗣 Area Codes ▶ OK ▶ 🗣 Navigate to the entry field,  
 delete the number using **<C** if needed ▶ Enter the number  
 ▶ Save

#### Example



## Adjusting the handset display settings

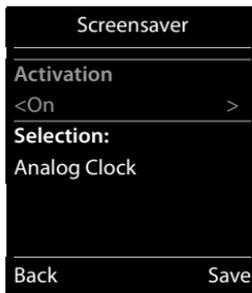
### Setting a screensaver

You can set a screensaver for the display when in idle status. You can choose from an analogue clock, a digital clock or an image

To show the display in idle status, **briefly** press **📞**.

☰ ▶ ⚙ ▶ OK ▶ 🗣 Display ▶ OK  
 ▶ Screensaver (✓ = activated) ▶ Edit  
 ▶ Activation: 🗣 On / Off  
 ▶ Selection:  
 🗣 Digital Clock / Analog Clock / [Images]  
 Or:  
 ▶ View (View screensaver)  
 ▶ 🗣 Select screensaver ▶ OK  
 ▶ Save

#### Example



### Setting the colour scheme

You can set the display to show a dark or a light background.

☰ ▶ ⚙ ▶ OK ▶ 🗣 Display ▶ OK ▶ 🗣 Colour Schemes ▶ OK  
 ▶ 🗣 Colour Scheme 1 / Colour Scheme 2 ▶ Select (● = selected)

## Adjusting the telephone settings

### Setting the display backlight

The display backlight is always lit when the handset is not in the base/charging cradle or when a key is pressed. Any **digit keys** pressed appear on the display for pre-dialling.

You can also activate/deactivate the display backlight for idle status:

▶ ▶ OK ▶ Display ▶ OK ▶ Backlight ▶ OK

In Charger: On / Off

Out of Charger: On / Off

▶ Save

#### Note

The handset's standby time can be significantly reduced if the display backlight is activated.

### Activating/deactivating Message key flashing

Specify whether receipt of new messages should be displayed on the handset by the message LED.

▶ In idle status: ▶ \* <img alt="Call icon"/> ▶ # <img alt="0 icon"/> 0 <img alt="5 icon"/> 5 <img alt="Hash icon"/> # <img alt="Call icon"/> \*

The display shows the number 9.

▶ Press the following keys to select the type of message:

7 <img alt="4 icon"/> 4 <img alt="Call icon"/> \*

for messages on the network mailbox

7 <img alt="5 icon"/> 5 <img alt="Call icon"/> \*

for missed calls

You will see the number 9 followed by your entry (e.g. 975); the current setting will be flashing in the entry field (e.g. 0).

▶ Press the key 0 <img alt="Call icon"/> \* or 1 <img alt="Call icon"/> \* to determine the setting for new messages:

0 <img alt="Call icon"/> \*

The Message key flashes  
(stops when the key is pressed)

1 <img alt="Call icon"/> \*

The Message key does not flash

▶ Confirm by pressing **OK** or go back to the idle display without saving by pressing **Back**.



### Activating/deactivating Auto Answer

When set to Auto Answer, the handset accepts an incoming call as soon as you remove it from the charging cradle.

▶ ▶ OK ▶ Telephony ▶ OK ▶ **Auto Answer** ▶ **Change** = activated)

Regardless of the setting **Auto Answer**, the connection ends as soon as you place the handset back in the charging cradle. Exception: Press and hold for a further 2 seconds while placing the handset in the charging cradle.

## Setting earpiece profiles

You can set various profiles for the **earpiece** to optimally adapt your phone to your environment. Check which is the most comfortable for you.

☰ ▶ ⚙ ▶ OK ▶ 🔄 Audio Settings ▶ OK ▶ 🔄 Earpiece Profiles ▶ OK ▶ 🔄 Select profile ▶ Select (● = selected)

**Earpiece Profiles: High and Low.** The default is **Low**.

## Setting the handset ringtones

### Setting the ringtone volume

☰ ▶ ⚙ ▶ OK ▶ 🔄 Audio Settings ▶ OK  
▶ 🔄 Ringtones (Handset) ▶ OK ▶ Volume ▶ OK

#### ▶ For internal calls and alarms:

🔊 Volume can be set at 5 levels or crescendo (increasing volume) for internal calls and anniversaries.

#### ▶ External Calls:

🔊 Volume can be set at 5 levels or crescendo (increasing volume) for external calls.

#### ▶ Save

### Setting the ring melody

☰ ▶ ⚙ ▶ OK ▶ 🔄 Audio Settings ▶ OK ▶ 🔄 Ringtones (Handset) ▶ OK  
▶ 🔄 Melodies ▶ OK

▶ **Internal Calls:** 🗲 Setting the volume/melody for internal calls and anniversaries.

▶ **External Calls:** 🗲 Setting volumes/melodies for external calls.

#### ▶ Save

### Example



## Activating/deactivating the ringtone

Activating/deactivating the ringtone **permanently**: Press and **hold** the star key  $* \square$ . When the ringtone is deactivated, 🗲 appears in the status bar.

Deactivating the ringtone for a **current call**: Press **Silence** or 🗲.

## Activating/deactivating the alert tone (beep)

You can activate an alert tone (beep) instead of the ringtone.

Press and **hold** the star key  $* \square$  and **within three seconds** ▶ **Beep**.

When the alert tone is activated, 🗲 appears in the status bar.

Press and **hold** the star key  $* \square$  to deactivate the alert tone again.

### Activating/deactivating advisory tones

Your handset uses advisory tones to tell you about different activities and statuses. These advisory tones can be activated/deactivated independently of each other.

 ▶  ▶ OK ▶  Audio Settings ▶ OK ▶  Advisory Tones ▶ OK

▶ **Key Tones:**  On / Off

Tone when keys are pressed.

▶ **Confirmation:**  On / Off

Confirmation/error tone after making entries, advisory tone when a new message has been received.

▶ **Battery:**  On / Off

Warning tone when there are fewer than 10 minutes of talktime remaining (every 60 seconds). There is no battery warning when the baby monitor is activated.

▶ Save

### Activating/deactivating music on hold

You can activate/deactivate music on hold for external calls during consultation and forwarding.

 ▶  ▶ OK ▶  Audio Settings ▶ OK ▶  Music on hold ▶ Change  = activated

### Protection against unwanted calls

#### Setting time control for external calls

You can specify a time period when you do not want the telephone to ring.

 ▶  ▶ OK ▶  Audio Settings ▶ OK  
▶  Ringtones (Handset) ▶ OK ▶  Time Control ▶ OK

▶ For external calls:  On / Off

If activated:

▶ **Suspend ring. from:** Enter the start of the period.

▶ **Suspend ring. until:** Enter the end of the period.

▶ Save

#### Example

Time Control	
For external calls:	
On	
Suspend ring. from:	
	22:00
Suspend ring. until:	
	07:00
Back	Save

#### Note

During this period, your phone will continue to ring for numbers to which you have assigned a VIP ringtone in the phonebook.

### Protection from anonymous callers

You can set your phone so that it doesn't ring for anonymous calls (→ page 20, callers who have withheld Calling Line Identification). The call is only signalled on the display. The setting only applies to handsets for which the setting is configured.

 ▶  ▶ OK ▶  Audio Settings ▶ OK ▶  Ringtones (Handset) ▶ OK ▶  Anon. Calls Silent ▶ Change  = function activated

## Quick access to numbers and functions

The **digit keys**  up to  can be assigned to a **number from the phonebook**.

The left and right **display keys** have a **function** preset by default, but the keys can be re-assigned (→ page 29).

You can then dial the number or start the function by simply pressing a key.

### Assigning digit keys

**Prerequisite:** You must assign a number to the digit key.

- ▶ Press and **hold** the digit key.  
Or:  
▶ **Briefly** press the digit key. ▶ Press the display key **QuickDial**.
- ▶ The phonebook opens. ▶  Select entry. ▶ **OK**

The entry is saved to the corresponding digit key.

#### Note

If you delete or edit the entry in the phonebook at a later date, this will not affect the assignment to the number key.

### Selecting numbers/changing an assignment

**Prerequisite:** You must have assigned a number to the digit key.

When the handset is in idle status

- ▶ Press and **hold** the digit key: The number is dialled immediately.

Or:

- ▶ **Briefly** press the digit key: Press the left-hand display key with the number/name (abbreviated if necessary) to dial the number.

Or:

Press the display key **Change** to change the key assignment, or press the display key **Clear Key** to delete the assignment.

### Assigning display keys

- ▶ In idle status, press and **hold** the left or right-hand display key. ▶ The list of possible key assignments is opened. ▶  Select entry ▶ **OK**

Choose from the following functions:

<b>Baby Monitor</b>	Set and activate the baby monitor (→ page 44).
<b>Alarm Clock</b>	Set and activate the alarm clock (→ page 43).
<b>Calendar</b>	Open calendar (→ page 41).
<b>One Touch Call</b>	Set up one touch call (→ page 19).
<b>Redial</b>	Show redial list (→ page 18).
<b>More Functions...</b>	You can also choose further functions:
<b>Call Lists</b>	Show call list (→ page 39).
<b>Withhold Number</b>	Withhold phone number identification for next call (→ page 22).
<b>Call Divert</b>	Set up call forwarding (→ page 40).

## Changing the system PIN

---

 ▶  ▶ OK ▶  System ▶ OK ▶  System PIN ▶ OK

▶ If current PIN not 0000: enter current PIN ▶ OK

▶ Enter new system PIN (4 digits; 0 - 9) ▶ Save

### Resetting system PIN

If you have forgotten your system PIN, you can reset it to **0000**. If you do this, **all the base settings** will be reset and **all the handsets** will be de-registered!

▶ Remove the power cord from the base.

▶ Press and hold the Registration/Paging key (Twist 654 → page 2) and at the same time reconnect the power cord to the base.

▶ Hold the Registration/paging key for at least 5 seconds.

## Restoring phone to default setting

---

You can reset individual modifications to base and handset settings separately.

The following are **not** affected by the reset:

- ◆ Date / time,
- ◆ Registration of handsets to the base and the current selection of the base,
- ◆ System PIN,
- ◆ Entries in the calendar and phonebook,
- ◆ Redial list.

When resetting the handset (**Handset Reset**), audio and display settings will be deleted.

When resetting the base (**Base Reset**), ECO DECT, system settings and internal handset names, as well as call lists will be reset

### Resetting the handset/base station

 ▶  ▶ OK ▶  System ▶ OK ▶  Handset Reset / Base Reset ▶ For Base Reset:

Enter the system PIN ▶ OK ▶ Confirm security prompt with Yes

ECO DECT uses less energy and reduces transmission power.

## Reducing transmission power (radiation)

### In normal operation (default setting):

The device range is set to maximum as default. This guarantees optimum wireless management. In idle status, the handset will not function (as it is not transmitting). Only the base will maintain contact with the handset via a low wireless signal. During a call, the transmission power automatically adapts to the distance between the base and handset. A closer distance to the base means lower transmission power.

You can reduce the transmission power even further:

### 1) Reducing the range and thereby lowering transmission power by up to 80%

In many spaces such as apartments, business rooms and offices, the maximum range is not necessary. If you deactivate the **Maximum Range** setting, you can reduce the transmission power during a call by up to 80%, using half of the range.

 ▶  ▶ OK ▶  ECO DECT ▶ OK ▶ **Maximum Range** ▶ **Change** (☑ = activated)

Display icon for reduced range → **page 48**.

### 2) Deactivating DECT wireless module in idle status (Eco Mode+)

With the **No Radiation** setting, you can deactivate the transmission power of the base completely during idle status.

 ▶  ▶ OK ▶  ECO DECT ▶ OK ▶  **No Radiation** ▶ **Change** (☑ = activated)

When the wireless model is deactivated, the icon  is displayed in idle status instead of the signal strength icon.

#### Notes

- ◆ To enjoy the benefits of the **No Radiation** setting, all registered handsets must support this feature.
- ◆ When the **No Radiation** setting is activated and a handset is registered to the base that does not support this feature, **No Radiation** will automatically be deactivated. As soon as this handset is de-registered, **No Radiation** will automatically be re-activated.
- ◆ The wireless connection will only be established for an incoming or outgoing call and the connection will be delayed by about 2 seconds.
- ◆ So that a handset can establish a wireless connection with the base more quickly for an incoming call, it must "listen" to the base more often, i.e. scan the environment. This increases power usage and reduces the standby and talktime duration of the handset.
- ◆ When **No Radiation** is activated, there will be no range display/range alarm on the handset. Contactability can be tested by assigning a line: Press and hold the Answer call key . You will hear the ringing tone.

## Network mailbox (Voicemail)

---

You cannot use the network mailbox unless you have **requested** it from Proximus and saved the network mailbox number (1969) in your phone.

 ▶  ▶ OK ▶  Network Mailbox ▶ OK ▶ Network Mailbox: Enter the phone number of the network mailbox ▶ OK

### Playing back network mailbox messages

▶ Press and **hold** the  key.

Or:

▶ Message playback via the message list:  
Message key  ▶  Net Mailbox: ▶ OK

Or:

▶ Message playback via the menu:  
 ▶  ▶ OK ▶ Play Messages ▶ OK

Your network mailbox is called directly. You can listen to the messages.

# Multiple handsets

## Registering handsets

You can register up to six handsets to your base. You must initiate handset registration on the handset **and** on the base station. Both must be carried out **within 60 secs**.

- ▶ **On the base station:** Press and **hold** (min. 3 secs) the Registration/paging key (Twist 654 → page 2).
  - ▶ **On the handset Twist 654** (for other handsets see "Notes"):
    - If the handset is not already registered to a base station: Press the display key **Register**.
    - If the handset is already registered to a base station:
      - ☰ ▶ ⚙ ▶ **OK** ▶ ☰ **Registration** ▶ **OK** ▶ **Register Handset** ▶ **OK**
      - ▶ If the handset is already registered to four bases: ☰ Select a base. ▶ **OK**
- The connection to the base is established, this may take some time.
- ▶ Enter the system PIN if required (factory setting: **0000**). ▶ **OK**

Successful registration is shown on the display.

### Notes

- ◆ If six handsets are already registered to the base (all internal numbers assigned), replace the handset with the internal number 6 with the new one. If this is not possible, because a conversation is being held for example, the message **No available internal number** is given. In this case, de-register another handset that is no longer required and repeat the registration procedure.
- ◆ For **other Twist handsets** and handsets for other devices with GAP functionality, start the registration of the handset according to the respective user guide.

## Using the handset on multiple bases

Your handset can be registered on up to four bases.

The active base is the base to which the handset was last registered. The other bases remain saved in the list of available bases.

You can change the assignment to the base **manually at any time**.

Alternatively, you can set the handset so that it selects the base with the best reception (**Best Base**), as soon as it loses connection to the current base.

- ☰ ▶ ⚙ ▶ **OK** ▶ ☰ **Registration** ▶ **OK** ▶ **Select Base** ▶ **OK** ▶ ☰ Select base or **Best Base**. ▶ **Select** (● = selected)

### Changing name of a base station

- ☰ ▶ ⚙ ▶ **OK** ▶ ☰ **Registration** ▶ **OK** ▶ **Select Base** ▶ **OK** ▶ ☰ Select base. ▶ **Select** (● = selected) ▶ **Name** ▶ Change name. ▶ **Save**

### De-registering handsets

 ▶  ▶ **OK** ▶  **Registration** ▶ **OK** ▶  **De-register Handset** ▶ **OK**  
▶ The handset used is selected. ▶  Select another handset if required. ▶ **OK** ▶ If system PIN <> 0000: Enter the system PIN. ▶ **OK** ▶ Confirm de-registration with **Yes**.

If the handset is still registered to other bases, it switches to the base with the best reception (Best Base → page 33).

### Locating a handset ("Paging")

▶ Press **briefly** the Registration/paging key on the base (Twist 654 → page 2).

All handsets will ring at the same time ("paging"), even if ringers are switched off. (Exception: handset on which the baby monitor is activated).

#### Ending the search

- ▶ **On the base station:** Press the Registration/paging key again **briefly**, or
- ▶ **On the handset:** press  or  or press **Silence**, or
- ▶ **No action:** After approx. 3 minutes, the paging call will end **automatically**.

### Change handset name

When registering multiple handsets, they will automatically be assigned the names "INT 1", "INT 2" etc. Each handset will automatically be assigned the lowest unassigned number (1-6). To change:

 ▶ The list of handsets is opened. Your own handset is marked <. ▶  Select another handset if required. ▶ **Options**  
▶  **Rename** ▶ **OK** ▶ Enter names. ▶ **OK**

Or:

▶  **Edit Handset No.** ▶ **OK** ▶  Select number. ▶ **OK**  
▶ **Save**

### Making internal calls

Internal calls to other handsets registered to the same base are free of charge.

 (press **briefly**) ▶ The list of handsets is opened. Your own handset is marked <. ▶  Select the handset or **Call all** (group call) from the list if required. ▶ 

**Holding down**  immediately starts a call on **all** registered handsets.

### Internal consultation/internal transfer

You receive a call from an **external** participant and would like to transfer the call to an **internal** participant or wish to consult him/her.

 ▶ The list of handsets is opened. ▶ If more than two handsets are registered to the base, select one handset or **Call all**. ▶  or **OK**

**Holding a consultation call:** You are speaking to the internal participant and are returning to your external call: ▶ **Options** ▶  **End active call** ▶ **OK**

**Transferring an external call:** You have two options to transfer the call:

- ▶ Wait until the participant called answers, then hang up:  
Press the End call key .

Or:

- ▶ Hang up before the participant calls: Press the End call key .

If the participant called does not answer or does not transfer the call, end the consultation with **End**.

## Establishing a conference call/call swapping

You are taking a call while a second call is being held. Both callers are indicated on the display.

- ▶ **Call swapping:** You can switch between both participants using .
- ▶ **Establishing a three-way conference call:** Press **Conf**.  
**Ending a conference call:** Press **End Conf**. You are reconnected with the external participant.  
You can switch again between both participants using .

Each of the callers can end their participation in the conference call by pressing the End call key .

## Accepting/rejecting call waiting

If you get an external call while conducting an internal call, you will hear the call waiting tone. If the number is transferred, you will see it or the name of the caller on the display.

- ▶ Rejecting a call: ▶ Press the display key **Reject**.
- ▶ Accepting a call: ▶ Press the display key **Accept**. You are now speaking to the new caller.  
The previous call is placed on hold.  
**Ending the current call and returning to the call on hold:**  
▶ **Options** ▶  **End active call** ▶ **OK**.

## Listening in to an external call

You are conducting an external call. An internal participant can listen in on this call and take part in the conversation (conference).

**Prerequisite:** The function **Listening In** is activated.

## Activating/deactivating internal listening in

 ▶  ▶ **OK** ▶  **Telephony** ▶ **OK** ▶  **Listening In** ▶ **Change** (☑ = on)

## Internal listening in

The line is engaged with an external call. Your screen will display information to that effect. You can listen in to the external call.

- ▶ **Hold down** . All participants hear a signal tone. Call waiting is not displayed.

## Ending listening in

- ▶ Press . All participants hear a signal tone.

## Phonebook (Address book)

In a **phonebook entry**, you can store first names and surnames, up to three numbers, an anniversary with a reminder, and caller melody.

You can create the directory (with up to 200 entries) individually for each of your handsets. You can also send lists/entries to other handsets (→ page 37).

### Length of the entries

3 numbers: Max. 32 digits each  
 First name and surname: Max. 16 characters each

## Managing directory entries

### Opening phonebook

Press the key  in idle status or, depending on the situation, the display key .

### Creating a new entry

- ▶ Open directory. ▶  <New Entry> ▶ OK
- ▶ Switch between the input fields using  and enter the relevant components of the entry (names, numbers, anniversary, ringtone).  
 Navigate downwards to display further components.
- ▶ Press the display key **Save**.

To create an entry, you must enter at least one number. If you have assigned a caller melody, the entry in the phonebook is supplemented with the symbol .

Example



### Displaying/changing an entry

- ▶ Open phonebook. ▶  Select the desired entry.
  - ▶ **View** ▶ Display all components of the entry. ▶ **Edit**
- Or:
- ▶ **Options** ▶  Edit entry ▶ OK

### Deleting an entry

- ▶ Open phonebook. ▶  Select the desired entry. ▶ **Options** ▶  Delete entry ▶ OK
- Delete **all** entries in the directory:
- ▶ Open phonebook. ▶ **Options** ▶  Delete List ▶ OK

### Defining the order of the contacts entries

You can define whether the entries are to be sorted by first name or surname.

- ▶ Open phonebook. ▶ **Options** ▶ Press **Sort by Surname** or **Sort by First Name**.

If no name was entered, the default number is shown in the surname field. These entries appear at the beginning of the list, regardless of how the entries are sorted.

The sort order is as follows:

Space | Digits (0-9) | Letters (alphabetical) | Other characters

## Displaying the number of entries that are available in the directory

- ▶ Open phonebook. ▶ Options ▶  Available Memory ▶ OK

## Selecting a phonebook entry, searching in the phonebook

- ▶ Open phonebook.
- ▶ Scroll to the name you are searching for using . **Holding down**  scrolls continuously upwards or downwards through the phonebook.

Or:

- ▶ Enter the first few letters (max. 8 letters) using the keypad. The display jumps to the first name that begins with these letters. If necessary, scroll on to the desired entry using .

## Transferring an entry/phonebook to another handset

### Prerequisites:

- ◆ The sending and receiving handsets must both be registered to the same base.
- ◆ The other handset and the base can send and receive directory entries.

You can transfer the entire directory, an individual entry or several individual entries.

### Notes

- ◆ An external call interrupts the transfer.
- ◆ Caller pictures and sounds are not transferred. Only the date is transferred for an anniversary.
- ◆ When transferring an entry between two vCard handsets:  
If the recipient does not yet have an entry with that name, a new entry is created.  
If there is already an entry with that name, this entry is expanded with the new numbers.  
If the entry contains more numbers than the recipient permits, a further entry is created with the same name.
- ◆ If the recipient is not a vCard handset: A separate entry is created and sent for each number.
- ◆ Your handset receives entries from a non-vCard handset: Entries with numbers that are already stored are discarded, otherwise a new entry is created.

### Transferring individual entries

- ▶ Open phonebook. ▶  Select the desired entry. ▶ Options
- ▶  Copy Entry ▶ OK ▶  to Internal ▶ OK ▶  Select the recipient handset. ▶ OK

After a successful transfer:

- ▶ Press **Yes** if you want to send another entry. Otherwise press **No**.

### Transferring the entire directory

- ▶ Open phonebook. ▶  Select the desired entry. ▶ Options
- ▶  Copy List ▶ OK ▶  to Internal ▶ OK ▶  Select the recipient handset. ▶ OK

## Transferring a displayed number to the phonebook

You can transfer numbers to the phonebook which are displayed in a list, e.g. the caller list, the redial list, as well as numbers that you have already selected or have entered for selection.

- ▶ The number is displayed or highlighted.
- ▶ Press display key  or **Options** ▶  **Copy to Directory.** ▶ **OK**
  - ▶ **<New Entry>** ▶ **OK** ▶  Select number type. ▶ **OK**
    - ▶ Complete the entry. ▶ **OK**

Or:

- ▶  Select entry. ▶ **OK** ▶  Select number type. ▶ **OK**
  - ▶ The number is entered or an existing number is overwritten (answer the prompt using **Yes/No**).
- ▶ **Save**

## Transferring a number from the phonebook

In some operating situations, you can transfer a number from the phonebook, e.g. by dialling (even after the entry of a prefix).

- ▶ Depending on the operating situation, open the phonebook using  or .
- ▶  Select the phonebook entry. ▶ **OK**
- ▶ If more than one number is entered:  Select number. ▶ **OK**

## Call list

Your telephone stores calls in various lists. Opening the lists:

- ◆ **Missed calls list:** Message key  ▶  **Missed Calls:** ▶ **OK**
- ◆ **List selection:**  ▶  ▶ **OK** ▶  **Select list.** ▶ **OK**

The last 20 entries are displayed in the call list.

### List entry

The following information is displayed in the list entries:

- ◆ The list type (in the header row)
- ◆ Icon for the type of entry:
  -  (Missed calls),  (Accepted calls),  (Outgoing calls)
- ◆ Caller's number. If the number is stored in the phonebook, name and number type are displayed instead ( Phone (Home),  Phone (Office),  Phone (Mobile)). For missed calls, the number of missed calls from this number is also shown in square brackets.
- ◆ Date and time of call (if set).
- ▶  **Select entry.** ▶ **Options**
- ▶ **View:** All available information is displayed, e.g. the corresponding number when a name is displayed.
- ▶ **Options:** You can delete the entry or transfer the number to the phonebook ( → page 38).

### Calling back a caller from the call list:

- ▶  **Select entry.** ▶ Press the Answer call key .

Example



## Contactability

---

### Call forwarding (CF)

You can forward calls to another number. No call forwarding is activated yet or you want to change the current setting:

 ▶  ▶ OK ▶  Call Divert ▶ OK

▶ **Status:**  On / Off

**Unknown** is always displayed when calling up the menu.

▶ **To Phone Number:** Enter the number to which incoming calls are to be forwarded.

▶ **When:**

-  **All Calls:** Calls are forwarded immediately. No more calls are signalled on your phone.
-  **No Answer:** Calls are forwarded if no one accepts the call within several rings.
-  **When Busy:** Calls are forwarded if your line is busy.

▶ **Send** ▶ The corresponding code is sent. You will hear a confirmation on the phone line. ▶ 

Please note

Forwarding calls to your phone number can result in **additional costs**.

# Calendar

You can remind yourself of up to **30 appointments**.

In the calendar, the current day is outlined in white; on days with appointments, the numbers are displayed in colour. When a day is selected, it will be highlighted.

May 2014						
Mo	Tu	We	Th	Fr	Sa	Su
				01	02	03 04
05	06	07	08	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Back OK

## Saving appointments to the calendar

**Prerequisite:** Date and time are set (→ page 10).

 ▶  ▶ OK ▶ Calendar ▶ OK

▶  Select the desired day. ▶ OK

- ◆ Appointments that have already been stored are shown.  
<New Entry> ▶ OK opens the window to enter an additional appointment.
- ◆ If no appointments have been entered, the data input window will open immediately to add the new appointment.

**Activation:**  On/Off

The following information can be added:

- ◆ **Date:** The selected day is preset. Enter new data to change.
  - ◆ **Time:** Time (hour and minute) of the appointment.
  - ◆ **Text:** Appointment name (e.g. dinner, meeting).
  - ◆ **Signal:**  Select the melody of the reminder signal or deactivate the acoustic signalling.
- ▶ Save

## Signalling of appointments/anniversaries

Anniversaries are transferred from the phonebook and displayed as an appointment. An appointment/anniversary is displayed in idle status and signalled for 60 seconds with the selected ringtone.

**You can deactivate the reminder call:**

- ▶ Press **OFF** to acknowledge and end the reminder call.

**When you are on the phone**, a reminder call is indicated on the handset with a **single** advisory tone.

## Displaying missed appointments/anniversaries

The following appointments and anniversaries are stored in the **Missed Alarms** list:

- ◆ The appointment/anniversary call was not acknowledged.
- ◆ The appointment/anniversary was signalled during a phone call.
- ◆ The handset was switched off at the time of the appointment/anniversary.

The last 10 entries are stored. The  icon and the number of new entries are shown in the display. The most recent entry appears at the head of the list.

**To open the list:** ▶ Message key  ▶  **Missed Alarms** ▶ OK

Or via the menu:  ▶  ▶ OK ▶  **Missed Alarms** ▶ OK

▶  scroll in the list if required

Information about the appointment/anniversary is displayed. You can:

- ▶ Delete an appointment/anniversary: **Delete**

## Displaying/changing/deleting stored appointments

 ▶  ▶ OK ▶  **Calendar** ▶ OK ▶  Select the desired day. ▶ OK ▶ The appointment list is displayed. ▶  Select the desired appointment.

- ▶ **View:** Display appointment settings, change, if required using **Edit**.

Or:

- ▶ **Options:** Change settings or delete appointments.

- **Edit entry** ▶ OK
- **Delete entry** ▶ OK
- **Activate/Deactivate** ▶ OK
- **Delete all Appoints.** ▶ OK ▶ Confirm prompt with **Yes**.  
All appointments for the **selected day** are deleted.

## Alarm clock

**Prerequisite:** Date and time are set (→ page 10).

You can activate/deactivate and set the alarm clock as follows:

 ▶  ▶ OK ▶ Activation:  On/Off

▶ Changing the settings:

- **Time:** Set the hour and minute for the wake-up time (time setting → page 10).
- **Occurrence:**  **Daily/Monday-Friday**
- **Volume:**  Volume can be set at 5 levels or crescendo (increasing volume).
- **Melody:**  Select a ringtone for the alarm call.

▶ Press the display key **Save**.

When the alarm clock is activated, the icon  and the alarm time is displayed in idle status.

An alarm call is signalled in the display and with the selected ringtone for a maximum of 60 seconds. During a call, the wake-up call is only signalled by a short tone.

### Deactivating the alarm call/repeating after a pause (snooze mode)

**Prerequisite:** One alarm call sounds.

▶ **Deactivating until the next alarm call:** Press OFF.

Or:

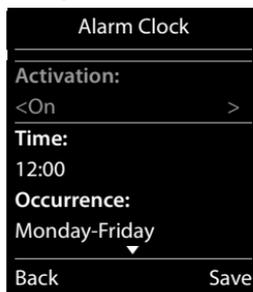
▶ **Snooze mode:**

Press **Snooze** or any key. The wake-up call is deactivated and then repeated after 5 minutes.

Or:

Press nothing. The alarm call is deactivated after 60 seconds and then repeated after 5 minutes. After the fourth repetition, the alarm call is deactivated for 24 hours.

### Example



## Baby monitor

---

When the baby monitor is switched on, the stored (internal or external) destination number is called as soon as a defined noise level is exceeded in the vicinity of the handset. The baby monitor alarm to an external number is cancelled after approximately 90 seconds.

In baby monitor mode, incoming calls are only signalled on the display (**without ringtone**). The display backlight is reduced to 50%. Advisory tones are deactivated. All keys are locked, with the exception of the display keys and pressing the middle of the control key.

You can answer the baby monitor alarm using the **Two Way Talk** function. Deactivate/activate the speaker of the handset with this function.

If you accept an incoming call, the baby monitor mode is suspended for the duration of the call, but the function **remains** activated. The baby monitor mode is not deactivated by switching the handset off and on again.

### Caution

Ensure the following points:

- ◆ The handset should be positioned 1 to 2 metres away from the baby. The microphone must be pointed towards the baby.
- ◆ Activating the function reduces the operating time of your handset. If necessary, place the handset in the charger.
- ◆ The baby monitor is activated 20 seconds after switching on.

Please always check the functionality when you switch on:

- ◆ Test the sensitivity.
- ◆ Check the connection if you are forwarding the baby monitor alarm to an external number.
- ◆ Make sure that the answer machine at the target number is switched off.

## Activating/deactivating and setting the baby monitor

 ▶  ▶ OK ▶  Baby Monitor ▶ OK

▶ **Activation:**  On/Off

▶ Setting the baby monitor:

- **Send alarm to:**  **Internal** (at least 2 handsets are registered)/ **External**  
If **Internal** is selected:
  - ▶ **Handset:** Press the **Change** display key. ▶  Select handset. ▶ OK
  - If **External** is selected:
    - ▶ **Number:** Enter the number directly or select from the phonebook (press the display key ).
- **Two Way Talk:**  On/Off
- **Sensitivity:**  High/Low

▶ **Save**

The target number is displayed in idle status when the baby monitor alarm is activated. The baby monitor is deactivated using the **OFF** display key.

## Cancelling the baby monitor alarm

**Cancelling during a baby monitor alarm:** Press .

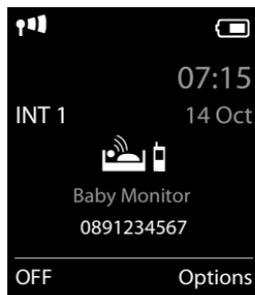
## Deactivating the baby monitor remotely

**Prerequisites:** The baby monitor alarm is forwarded to an external destination number. The recipient's phone supports tone dialling.

▶ Accept the baby monitor alarm and press the   keys.

The call is ended. The baby monitor is deactivated and the handset is in idle status.

### Baby monitor activated



# Operating the telephone on a router/PABX

---

## Operation with a router

When operating on the analogue connection of a router, potentially occurring **echoes** can be reduced by switching on **XES mode 1**\*. If **XES mode 1** does not suppress the echoes sufficiently, you can activate **XES mode 2**.

If there are no problems with echoes, the normal mode (factory settings) should be activated.

-          
- ▶  ▶ **OK** (for normal mode)
- ▶  ▶ **OK** (for XES mode 1)
- ▶  ▶ **OK** (for XES mode 2)

## Operation with a PABX

To find out which settings are required for your PABX, please refer to the PABX user guide.

## Dialling modes and flash time

### Changing the dialling mode

-  ▶  ▶ **OK** ▶  **Telephony** ▶ **OK** ▶  **Dialling Mode** ▶ **OK** ▶  **Select tone dialling (Tone)/ pulse dialling (Pulse)** ▶ **Select** (● = selected)

### Setting flash time

-  ▶  ▶ **OK** ▶  **Telephony** ▶ **OK** ▶  **Recall** ▶ **OK** ▶  **Select flash time** ▶ **Select** (● = selected)

## Saving an access code (outside line code)

If you have to enter an access code before any external number on your PABX, e.g., "0":

-  ▶  ▶ **OK** ▶  **Telephony** ▶ **OK** ▶  **Access Code** ▶ **OK** ▶ **Access external line**
- with:** Enter access code (max. of 3 characters).

#### ▶ For:

 **Off:** Deactivate access code.

Or:

 **Call Lists:** The access code should only be prefixed when dialling from one of the following lists: missed call list, accepted call list.

Or:

 **All calls:** The access code should be prefixed to every number.

#### ▶ Save

---

\* XES stands for "eXtended Echo Suppression".

## Setting pauses

Menu key  ▶ \*  ▶ # > 0  5  # > 0 ▶ Then enter one of the following function-specific codes:

### ◆ Pause after line seizure:

  MNO ▶   ▶ OK (for 1 sec.)

  MNO ▶   ▶ OK (for 3 secs.)

  MNO ▶   ▶ OK (for 7 secs.)

### ◆ Pause after Recall key:

  ABC ▶   ▶ OK (for 800 ms)

  ABC ▶   ▶ OK (for 1600 ms)

  ABC ▶   ▶ OK (for 3200 ms)

### ◆ Dialling pause (Pause after access code):

   ▶   ▶ OK (for 1 sec.)

   ▶   ▶ OK (for 2 secs.)

   ▶   ▶ OK (for 3 secs.)

   ▶   ▶ OK (for 6 secs.)

**To enter dialling pause when dialling:**

**Hold down** the Recall key   . A P appears in the display.

## Switching temporarily to tone dialling (Tone)

After dialling the external number or after establishing the connection:

▶ Press the star key   **briefly.**

Or:

▶ **Options** ▶  **Tone Dialling** ▶ **OK**

## Display icons

### Icons in the status bar

The following icons are displayed in the status bar depending on the settings and the operating status of your telephone:

Icon	Meaning
	Signal strength ( <b>No Radiation</b> off)
	76% - 100%
	51% - 75%
	26% - 50%
	1% - 25%
	Red: no connection to the base
	<b>No Radiation</b> activated: white, if <b>Maximum Range</b> is on; green, if <b>Maximum Range</b> is off
	Ringtone deactivated
	"Beep" ringtone activated
	Key lock

Icon	Meaning
	Battery charge status:
	White: charged over 66%
	White: charged between 34 and 66%
	White: charged between 11 and 33%
	Red: charged below 11%
	Flashes red: battery almost empty (approx. 5 minutes talktime remaining)
	Battery is charging (current charge status):
	0% - 10%
	11% - 33%
	34% - 66%
	67% - 100%

### Menu icons

	Alarm Clock
	Call Lists
	Answer Machine

	Select Services
	Additional Features
	Settings

## Display key icons

The following icons indicate the current function of the display keys according to the operating situation:

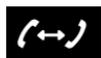
Icon	Action
	Last number redial
	Deleting text

Icon	Action
	Opening phonebook
	Copy number to the phonebook

## Display icons for signalling of



Establishing a call  
(outgoing call)



Connection  
established



No connection  
established/connection  
terminated



External call



Internal call



Reminder call for  
anniversary



Reminder call for  
appointment



Alarm call

## Other display icons



Information



(Security) prompt



Please wait...



Action complete  
(green)



Action failed (red)

# Menu tree

Opening the main menu: Press  whilst the telephone is in idle status.

## Note

Not all functions described in this user guide are available in all countries or with all network providers.



### Alarm Clock

→ page 43



### Call Lists

All calls	→ page 39
Outgoing calls	→ page 39
Accepted calls	→ page 39
Missed calls	→ page 39



### Answer Machine

Play Messages	Network Mailbox	→ page 32
Network Mailbox		→ page 32



### Select Services

Automatic Recall		→ page 22
Next Call	Withhold Number	→ page 22
	Send Number	→ page 22
Call Divert		→ page 40
Call Waiting		→ page 22
All Calls Anonym.		→ page 22
Ringback Off		→ page 23



### Additional Features

Calendar	→ page 41
Baby Monitor	→ page 44
One Touch Call	→ page 19
Missed Alarms	→ page 42



## Settings

Date/Time	→ page 10
Audio Settings	<ul style="list-style-type: none"> <li>Handset Volume → page 20</li> <li>Earpiece Profiles → page 27</li> <li>Advisory Tones → page 28</li> <li>Ringtones (Handset) → page 27</li> <li>Music on hold → page 28</li> </ul>
Display	<ul style="list-style-type: none"> <li>Screensaver → page 25</li> <li>Colour Schemes → page 25</li> <li>Backlight → page 26</li> </ul>
Language	→ page 9
Registration	<ul style="list-style-type: none"> <li>Register Handset → page 33</li> <li>De-register Handset → page 34</li> <li>Select Base → page 33</li> </ul>
Telephony	<ul style="list-style-type: none"> <li>Auto Answer → page 26</li> <li>Area Codes → page 25</li> <li>Listening In → page 35</li> <li>Access Code → page 46</li> <li>Dialling Mode → page 46</li> <li>Recall → page 46</li> </ul>
System	<ul style="list-style-type: none"> <li>Reset Handset → page 30</li> <li>Base Reset → page 30</li> <li>System PIN → page 30</li> </ul>
ECO DECT	<ul style="list-style-type: none"> <li>Maximum Range → page 31</li> <li>No Radiation → page 31</li> </ul>

# Declaration of Conformity

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This device is intended for the Proximus analogue phone lines in Belgium.

Country-specific conditions have been taken into account.

We, Gigaset Communications GmbH, declare, that the Twist 654 is manufactured according to our Full Quality Assurance System certified by CETECOM ICT Services GmbH in compliance with ANNEX V of the R&TTE-Directive 1999/5/EC.

The presumption of conformity with the essential requirements regarding Council Directive 1999/5/EC is ensured according to

**Art. 3.1 a) Safety:**

EN 60950 (equivalent to 2006/95/EC)

**Art. 3.1 a) EMF/SAR:**

1999/519/EC (EU-Council Recommendation)

EN 62479 (Portable Part)

EN 62311 (Fixed Part)

**Art. 3.1 a) Acoustic Shock:**

EG 202 518 (Portable Part)

**Art. 3.1 b) EMC:**

EN 301 489-1 / EN 301 489-6 (equivalent to 2004/108/EC)

**Art. 3.2 Radio:**

EN 301 406

A copy of the Declaration of Conformity is available at this Internet address:

[www.gigaset.com/docs](http://www.gigaset.com/docs)

Senior Approvals Manager

CE 0682

## Guarantee terms

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The equipment you have bought has been carefully selected by Proximus and is covered by a two-year warranty on spare parts and labor in the event of any material or manufacturing defect, unless otherwise specified. The warranty shall be valid from the date on which the equipment is collected or delivered.

If you have any problems with the equipment, you should take it to a Proximus Center or to one of our authorized agents, in its entirety and in its original packaging, or in packaging providing the same degree of protection, together with the original receipt.

Your equipment will be repaired or replaced free of charge, on presentation of the receipt, in the event of any material or manufacturing defect.

Proximus alone shall determine what repairs and/or replacements are necessary. The warranty on the repaired or replaced equipment shall end on the date on which the original warranty on the purchased equipment expires, but shall not be less than 3 months.

The warranty shall not cover:

- damage of any kind that does not predate the sale;
- any damage, faults or defects attributable to the customer or to causes unrelated to the equipment: lightning, power surges, humidity, accidental damage, improper use or poor maintenance, failure to comply with the instructions in the user manual, and force majeure;
- the repair or replacement of movable parts (cords, wires, plugs, aerials, etc.), consumables (cells, batteries, paper, ink, etc.) needing regular replacement and the supply of cleaning products

The warranty shall not apply:

- to any changes or repairs to the equipment undertaken by the customer himself/herself or through the services of persons not designated by Proximus;
- if the customer removes or tampers with the manufacturer's serial numbers and/or brand names on the equipment.

Proximus shall not be liable for any indirect or immaterial loss sustained by the customer as a result of the malfunctioning of the equipment, such as any loss of production, revenue or contracts.

The General Terms and Conditions for the sale of equipment can be obtained on request from any Proximus service available to the public or at [www.proximus.be](http://www.proximus.be)

## Environment

- ▶ The equipment that you bought has required the extraction and use of natural resources for its production. It may contain hazardous substances for the health and the environment.
- ▶ In order to avoid the dissemination of those substances in our environment and to diminish the pressure on the natural resources, we encourage you to use the appropriate take-back systems. Those systems will reuse or recycle most of the materials of your end life equipment in a sound way.
- ▶ The crossed-bin symbol invites you to use those systems.
- ▶ If you need more information on the collection, reuse and recycling systems, please contact your local or regional waste administration.
- ▶ You can also contact us for more information on the environmental performances of our products.

### Disposal

Batteries should not be disposed of in general household waste. Observe the local waste disposal regulations, details of which can be obtained from your local authority.

All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.



This crossed-out wheeled bin symbol on the product means the product is covered by the European Directive 2002/96/EC.

The correct disposal and separate collection of your old appliance will help prevent potential negative consequences for the environment and human health. It is a precondition for reuse and recycling of used electrical and electronic equipment.

For more detailed information about disposal of your old appliance, please contact your local council refuse centre or the original supplier of the product.

## Questions and answers

The table below lists steps for troubleshooting.

<p><b>The display is blank.</b></p> <ol style="list-style-type: none"><li>1. The handset is not activated.<ul style="list-style-type: none"><li>▶ <b>Hold down</b> .</li></ul></li><li>2. The batteries are empty.<ul style="list-style-type: none"><li>▶ Charge the batteries or replace them ( → page 7).</li></ul></li><li>3. The key and display lock is activated.<ul style="list-style-type: none"><li>▶ <b>Hold down</b> the hash key .</li></ul></li></ol>
<p><b>"No Base" flashes on the display.</b></p> <ol style="list-style-type: none"><li>1. The handset is outside the range of the base.<ul style="list-style-type: none"><li>▶ Move the handset closer to the base.</li></ul></li><li>2. The base is not activated.<ul style="list-style-type: none"><li>▶ Check the base power adapter.</li></ul></li><li>3. The base's range is reduced because <b>Maximum Range</b> is deactivated.<ul style="list-style-type: none"><li>▶ Activate <b>Maximum Range</b> ( → page 31) or reduce the distance between the handset and base.</li></ul></li></ol>
<p><b>"Please register handset" or "Place handset in base" flashes on the display.</b></p> <p>The handset has not yet been registered or was de-registered due to the registration of an additional handset (more than six DECT registrations).</p> <ul style="list-style-type: none"><li>▶ Register the handset again ( → page 33).</li></ul>
<p><b>The handset does not ring.</b></p> <ol style="list-style-type: none"><li>1. The ringtone is deactivated.<ul style="list-style-type: none"><li>▶ Activate ringtone ( → page 27).</li></ul></li><li>2. Call forwarding is set.<ul style="list-style-type: none"><li>▶ Deactivate call forwarding ( → page 40).</li></ul></li><li>3. The phone does not ring if the caller has withheld his number.<ul style="list-style-type: none"><li>▶ Activate the ringtone for unknown calls ( → page 28).</li></ul></li><li>4. The phone does not ring during a specific period or for certain numbers.<ul style="list-style-type: none"><li>▶ Check time control for external calls ( → page 28).</li></ul></li></ol>

<p><b>You cannot hear a ringtone/dialling tone from the fixed line network.</b></p> <p>The phone cord supplied has not been used or has been replaced by a new cord with the wrong pin connections.</p> <ul style="list-style-type: none"> <li>▶ Please always use the phone cord supplied or ensure that the pin connections are correct when purchasing from a retailer ( → page 58).</li> </ul>
<p><b>Error tone sounds after system PIN prompt.</b></p> <p>You have entered the wrong system PIN.</p> <ul style="list-style-type: none"> <li>▶ Repeat the process, reset the system PIN to 0000 if required ( → page 30).</li> </ul>
<p><b>Forgotten system PIN.</b></p> <ul style="list-style-type: none"> <li>▶ Reset the system PIN to 0000 ( → page 30).</li> </ul>
<p><b>The other party cannot hear you.</b></p> <p>The handset is "muted".</p> <ul style="list-style-type: none"> <li>▶ Activate the microphone again ( → page 21).</li> </ul>
<p><b>The caller's number is not displayed.</b></p> <ol style="list-style-type: none"> <li>1. <b>Calling Line Identification (CLI)</b> has not been enabled for the caller.</li> <li>2. <b>Caller display (CLIP)</b> has not been enabled for you.             <ul style="list-style-type: none"> <li>▶ Request Caller display (CLIP) from Proximus.</li> </ul> </li> <li>3. Your telephone is connected via a PABX or a router that does not transmit all information.             <ul style="list-style-type: none"> <li>▶ Reset the system: Briefly pull out the power plug. Reinsert the plug and wait until the device restarts.</li> <li>▶ Check the settings on the PABX and activate phone number display, if necessary. To do this, search for terms such as CLIP, calling line identification, phone number identification, caller ID, etc. in the system's user guide or ask the system manufacturer.</li> </ul> </li> </ol>
<p><b>You hear an error tone when keying an input.</b></p> <p>Action has failed/invalid input.</p> <ul style="list-style-type: none"> <li>▶ Repeat the process. Read the display and refer to the user guide if necessary.</li> </ul>
<p><b>You cannot listen to messages on the network mailbox.</b></p> <p>Your PABX is set to pulse dialling.</p> <ul style="list-style-type: none"> <li>▶ Set your PABX to tone dialling.</li> </ul>

Your handset display has a resolution of 128 x 160 pixels. Each pixel consists of three sub-pixels (red, green, blue).

It may be the case that a pixel is incorrectly controlled or has a colour deviation.

**This is normal and no reason for a warranty claim.**

The following table shows the number of pixel errors that may occur without leading to a warranty claim.

Description	Maximum number of permitted pixel errors
Colour illuminated sub-pixels	1
Dark sub-pixels	1
Total number of coloured and dark sub-pixels	1

**Note**

Signs of wear on the display and housing are excluded from the warranty.

## Appendix

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### Care

Wipe the device with a **damp** cloth or an antistatic cloth. Do not use solvents or microfibre cloths.

**Never** use a dry cloth; this can cause static.

In rare cases, contact with chemical substances can cause changes to the device's exterior. Due to the wide variety of chemical products available on the market, it was not possible to test all substances.

Impairments in high-gloss finishes can be carefully removed using display polishes for mobile phones.

### Contact with liquid

If the device comes into contact with liquid:

- 1 Disconnect the power supply.
- 2 Remove the batteries and leave the battery compartment open.
- 3 Allow the liquid to drain from the device.
- 4 Pat all parts dry.
- 5 Place the device in a dry, warm place **for at least 72 hours (not in a microwave, oven etc.)** with the battery compartment open and the keypad facing down (if applicable).
- 6 Do not switch on the device again until it is completely dry.

When it has fully dried out, you will normally be able to use it again.

## Technical data

### Batteries

Technology: 2 x AAA NiMH

Voltage: 1.2 V

Capacity: 750 mAh

### Handset operating times/charging times

The operating time of your phone depends on the capacity and age of the battery and the way it is used. (All times are maximum possible times).

Standby time (hours) *	320 * 170 **
Talktime (hours)	14
Operating time for 1.5 hours of calls per day (hours) *	130 * 100 **
Charging time in base (hours)	8.5
Charging time in charging cradle (hours)	7.5

\* **No Radiation** deactivated, **without** display backlight in idle status

\*\* **No Radiation** activated, **without** display backlight in idle status

### Base power consumption

In standby mode

– Handset in charging cradle approx. 1.0 W

– Handset outside charging cradle approx. 0.5 W

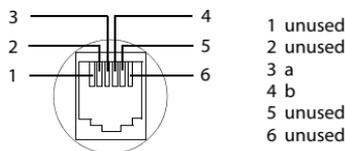
During a call approx. 0.65 W

## General specifications

## DECT

DECT standard	Supported
GAP standard	Supported
No. of channels	60 duplex channels
Radio frequency range	1880-1900 MHz
Duplex method	Time division multiplexing, 10 ms frame length
Repetition frequency of the transmission pulse	100 Hz
Duration of the transmission pulse	370 µs
Channel grid	1728 kHz
Bit rate	1152 kbit/s
Modulation	GFSK
Language code	32 kbit/s
Transmission power	10 mW average power per channel, 250 mW pulse power
Range	Up to 50 m indoors, up to 300 m outdoors
Base power supply	230 V ~/50 Hz
Environmental conditions for operation	+5°C to +45°C, 20% to 75% relative humidity
Dialling mode	DTMF (tone dialling)/PD (pulse dialling)

## Pin connections on the telephone jack



## Character charts

## Standard characters

Press the relevant key the number of times indicated.

	1x	2x	3x	4x	5x	6x	7x	8x	9x	10x
1 <sup>no</sup>	1									
2 <sup>acc</sup>	a	b	c	2	ä	á	à	â	ã	ç
3 <sup>sup</sup>	d	e	f	3	ë	é	è	ê		
4 <sup>sh</sup>	g	h	i	4	ï	í	ì	î		
5 <sup>ml</sup>	j	k	l	5						
6 <sup>mo</sup>	m	n	o	6	ö	ñ	ó	ò	õ	
7 <sup>pos</sup>	p	q	r	s	7	ß				
8 <sup>sup</sup>	t	u	v	8	ü	ú	ù	û		
9 <sup>sup</sup>	w	x	y	z	9	ÿ	ý	æ	ø	å
0 <sup>bl</sup>	<sup>1)</sup>	.	,	?	!	<sup>2)</sup>	0			

1) Space

2) Line break

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