

Belgacom Twist 451

User manual



Twist 451 – your high-quality accessory

Congratulations on your purchase of this latest generation telephone.

Your telephone can do a lot more than just make calls:

Directory for 150 entries

Save phone numbers and names to the directory (→ page 26). You can designate important entries as VIPs (Very Important Persons). VIP calls are then recognised by their ringtone and their background colour (→ page 27).

If you don't (always) want it to ring

Use time control for calls (→ page 37) or ensure that all calls from a withheld number are not signalled (→ page 37).

Other practical information

Transfer the directory from an existing handset (→ page 27), use the shortcut function (→ page 27) and adjust the background colour and contrast of the display to your requirements (→ page 36).

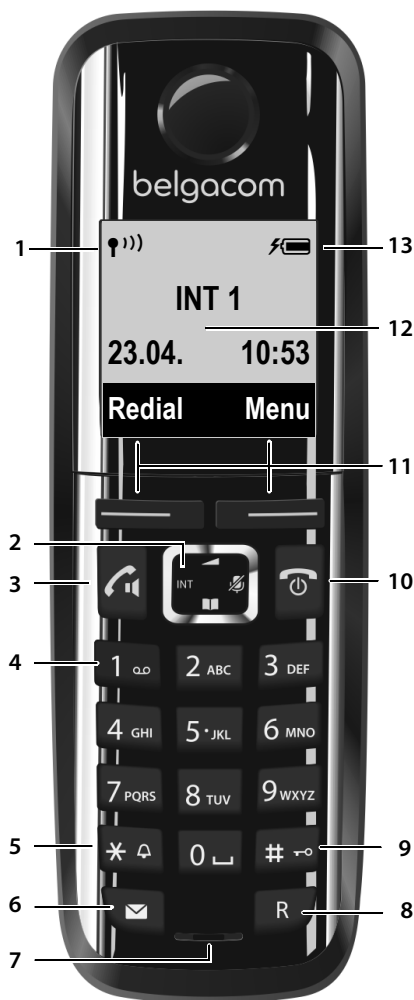
Environment

Your Twist 451– be environmentally aware when using your phone.

Contact Belgacom customer services for more information about your telephone.

Have fun using your new phone!

Overview



- 1 **Signal strength** (→ page 15)
Icon changes when Eco Mode+ is activated (→ page 32)
- 2 **Control key** (→ page 17)
Mute microphone (→ page 25)
- 3 **Talk/Handsfree key**
Flashing: incoming call;
Lights up: handsfree mode activated;
accept call; open redial list (press briefly);
start dialling (press and hold);
During a call: switch between earpiece and
handsfree mode (→ page 25)
- 4 **Key 1**
Open network mailbox (PhoneMail) (press and
hold)
- 5 **Star key**
Activate/deactivate ringtones
(press and hold);
With an open connection: switch from pulse
dialling to tone dialling (press briefly)
- 6 **Message key** (→ page 29)
Access to call and message lists;
Flashing: new message or new call
- 7 **Microphone**
- 8 **Recall key**
- Consultation call (flash)
- Insert a dialling pause (press and hold)
- 9 **Hash key**
Keypad lock on/off (press and hold in
idle status);
toggles between upper/lower case and digits
- 10 **End call key, On/Off key**
End call; cancel function; go back one menu
level (press briefly); back to idle status
(press and hold); activate/deactivate handset
(press and hold in idle status)
- 11 **Display keys** (→ page 4)
- 12 **Display** in idle status
- 13 **Charge status of the batteries** (→ page 15)

Please note

To change the **display language**, proceed as
described on page 12/page 36.

Base station

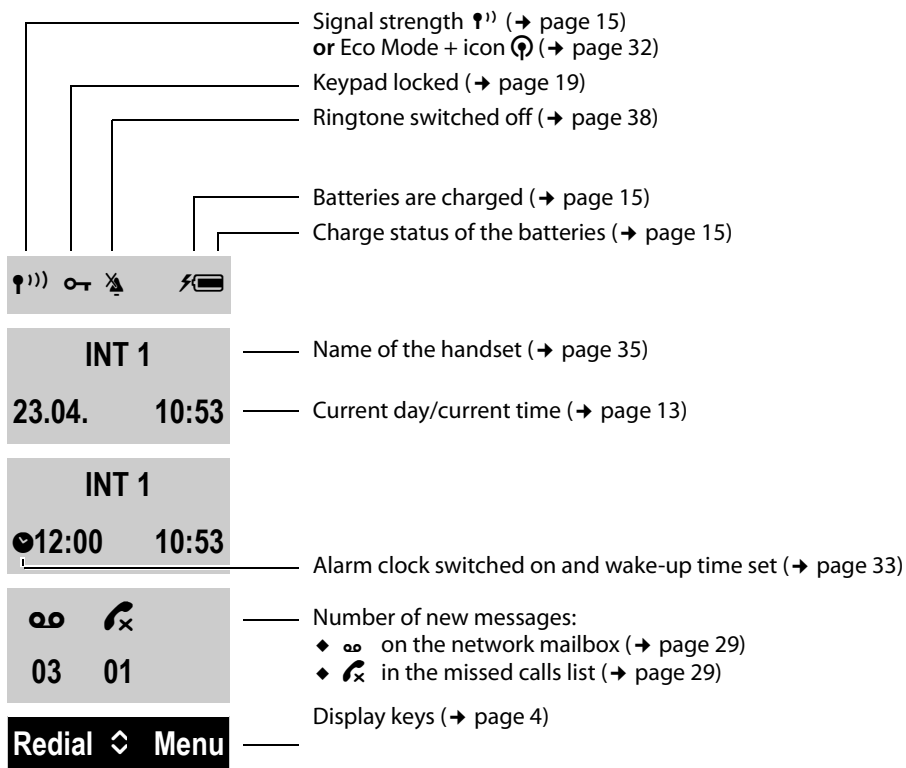


Registration/paging key

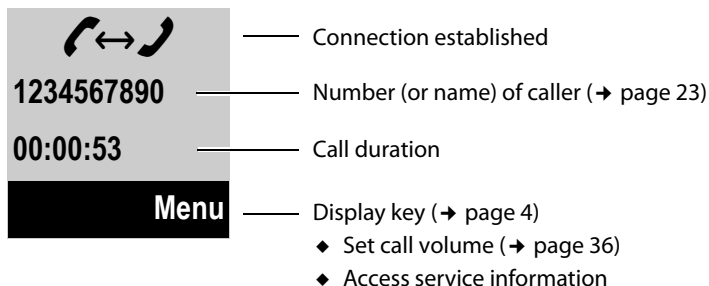
- Press **briefly**: search for handsets
("paging") → page 34.
- Press and **hold**: register handsets and
DECT devices → page 33.

Display icons

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



Display during external call:



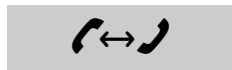
Display keys

Other display icons:

Establishing a connection



Connection established



Connection cannot be established or connection interrupted



External call (→ page 23)



Internal call (→ page 34)



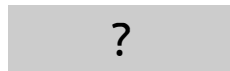
Alarm call (→ page 33)



Information



Query



Please wait...



Action complete

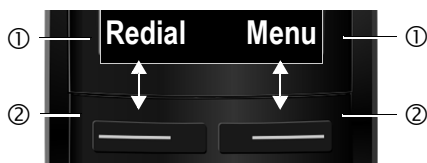


Action failed



Display keys

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



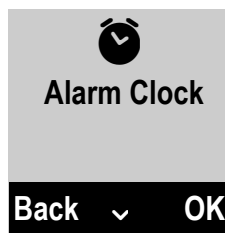
① Current display key function

② Display keys

Important display keys:

Redial	Open redial list.
Menu	Open a menu for further functions.
OK	Confirm selection.
Del.	Delete key: Delete character by character from right to left.
Back	Go back one menu level or cancel operation.

Main menu icons



- Alarm Clock
- Voice Mail
- Settings

Information on using the menus → page 18
Menu overview → page 22

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Safety precautions

Warning

Read the safety precautions and the user manual before use.

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



Use only the power adapter supplied.



Use only **rechargeable batteries** that correspond to the **specification provided on page 44**, as this could otherwise result in significant health risks and personal injury.



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. Please refer to the "Appendix" chapter for the specifications of this product.



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 handset may cause interference in analogue hearing aids. If you require assistance, please contact the hearing aid supplier.



Do not install the base or charger in bathrooms or shower rooms. The base and charger are not splashproof (→ page 44).



Do not use your phone in environments with a potential explosion hazard (e.g., paint shops).



If you give your phone to a third party, make sure you also give them the user manual.



Remove faulty bases from use or have them repaired by our Service team, as these could interfere with other wireless services.

Please note

The device cannot be used in the event of a power failure. It is also **not** possible to transmit **emergency calls**.

First steps

Checking the package contents



- 1 One Twist 451 base
- 2 One power adapter for the base
- 3 One handset
- 4 Two batteries
- 5 One battery cover
- 6 One phone cord with a four-pin connection
- 7 One user guide

Setting up the base

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

- ▶ Set up the base at a central point in the building on a level, non-slip surface or mount the base on the wall → page 47.

Please note

Pay attention to the range of the base.

This is up to 300 m in unobstructed outdoor areas and up to 50 m inside buildings. The range is reduced when Eco Mode is activated (→ page 32).

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, the occurrence of marks on the surfaces cannot be completely ruled out.

Please note:

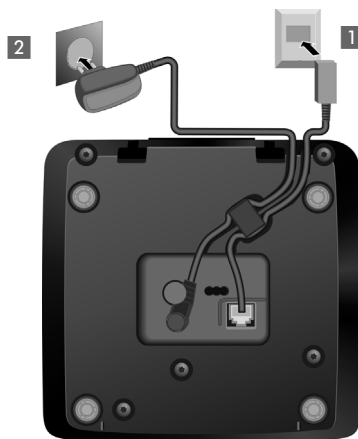
- ◆ Never expose the telephone to the effects of heat sources, direct sunlight or other electrical devices.
- ◆ Protect your telephone from moisture, dust, corrosive liquids and fumes.

Connecting the base

- ▶ **First** connect the telephone jack **1** and insert the cables into the cable ducts.
- ▶ **Then** connect the power adapter **2**.

Please note:

- ◆ The power adapter must **always be connected**, as the phone will not operate without a mains connection.
- ◆ Use only the power adapter and phone cord **supplied**.



Setting up the handset for use

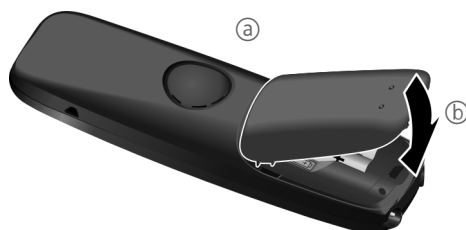
The display is protected by a plastic film.
Please remove the protective film!

Inserting the battery and closing the battery cover

Warning

Use only rechargeable batteries (→ page 44), 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.

- ▶ Insert the batteries with the polarity in the correct direction.
The polarity is indicated in the battery compartment.



- ▶ First insert the battery cover at the top (a).
- ▶ Then press the cover (b) until it clicks into place.

To open the battery cover, for instance to replace the batteries, insert a coin into the cavity on the casing, then pull the battery cover in an upward direction.



Initial charging and discharging of the batteries

The correct charge status can only be displayed if the batteries are first fully charged **and** discharged.

- Charge the handset in the base for **6 hours**.



Please note

The handset must only be placed in the designated Twist 451 base.

- After charging, remove the handset from the base and only replace it when the batteries are **fully discharged**.

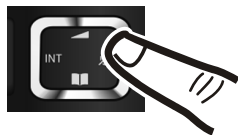
Please note

- ◆ The handset is pre-registered with the base. If you have purchased a **model with multiple handsets**, all handsets will already be registered with the base. You do not need to register the handset again. However, if a handset is not registered with the base (**Register handset** or **Place handset into base** flashes on the display), please register the handset manually → page 33.
- ◆ After the first battery charge **and** discharge, you may place your handset in the base after every call.
- ◆ Always repeat the charging and discharging procedure if you remove the batteries from the handset and reinsert them.
- ◆ The batteries may warm up during charging. This is not dangerous.
- ◆ After a while, the charge capacity of the batteries will decrease for technical reasons.

If you have any questions about using your phone, please read the tips on troubleshooting (→ page 41).

Changing the display language

Change the display language if you do not understand the language currently set.

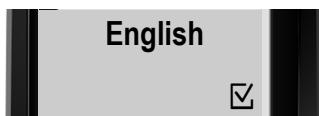


- ▶ Press right on the control key.

6 MNO


4 GHI

- ▶ Press the keys **6 MNO** and **4 GHI** **slowly** one after the other.



The display for setting languages appears and the current language (e.g., English) is selected.




- ▶ Press down on the control key  ...




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

- ▶ Press the key below **OK** to select this language.



The selection is marked with .

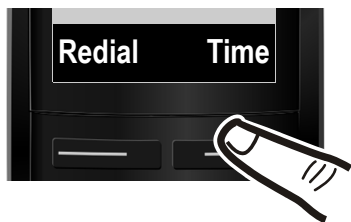
- ▶ Press and **hold** the end call key  to return to idle status.

Setting the date/time

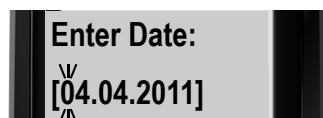
Set the date and time so that the correct date and time can be assigned to incoming calls, and so that the alarm clock can be used.

Please note

If you have subscribed to the "Call display with CLIP/CLI" service, the date and time are set automatically.



- ▶ Press the key below **Time** on the display screen to open the input field.
(If you have already set the date/time, open the input field via the menu
→ page 22.)

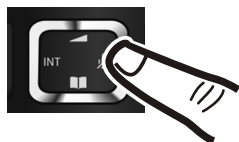


The **Date/Time** submenu is shown on the display.

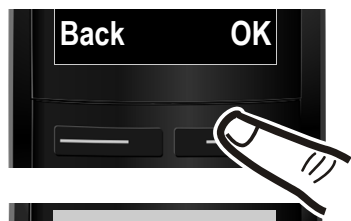
- ▶ The active input position flashes.
Enter the day, month and year as an 8-digit number via the keypad,
e.g.,

0	4	0	4	2	0	1	1
---	---	---	---	---	---	---	---

for 4 April 2011.



To change the input position, e.g., to correct an entry, press **right** or **left** on the control key.



- ▶ Press the key below **OK** on the display screen to save your entry.



- ▶ Enter the hours and minutes in 4-digit format via the keypad, e.g.,

0	7	1	5
---	---	---	---

for 07:15 am.
Change the input position with the control key if necessary.
- ▶ Confirm with **OK**.



The display shows **Saved**. You will hear a confirmation tone and the handset automatically reverts to idle status, or returns to the "Settings" menu if the setting was made via the menu.

Please note

If your phone receives the date and time during calling line display, you can specify whether this data should be copied to your phone:

- ▶ Press the following keys in sequence:

[OK] ▶ [*] [0] [#] [0] [5] [7] [3]

You will see the following display and the current setting will flash:

973 SET: [0]

- ▶ Press one of the following keys to determine when the date should be copied across:

[0]

Never

Or [1]

or

Once, in case the date/time is not set on your phone

Or [2]

or

Always

Your selection is displayed (e.g., 2 for Always):

973 SET: [2]

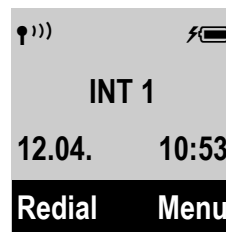
- ▶ Press the display key **OK**.

Display in idle status

Once the phone is registered and the time set, the screen display is as follows (example).

Screen display

- ◆ Reception between the base and the handset:
 - Good to poor:
 - No reception:
- ◆ Charge status of the batteries:
 - charged over 66%
 - charged between 34% and 66%
 - charged between 11% and 33%
 - charged to below 11%
 - flashes: battery almost empty (less than 10 minutes talktime)
 - lit up: batteries charging
- ◆ INT 1
Internal name of the handset (→ page 35)










If **Eco Mode+** (→ page 32) is activated, the icon is displayed in the top left corner of the display.

Your phone is now ready for use.


What would you like to do next?

Now that you have successfully set up your telephone, you can immediately start calling – or you can adapt it to your personal requirements. Use the following guide to quickly locate the most important functions.

Information on is located here.
Using the phone	 page 17
Setting ringtones	 page 37
Registering existing handsets to a base	 page 33
Transferring directory entries from existing handsets to new handset(s)	 page 27
Setting Eco Mode / Eco Mode+	 page 32
Operating the telephone on a PABX	 page 40
Setting the earpiece volume	 page 36

Using the phone





Control key

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



The control key has a number of different functions:







When the handset is in idle status

-  Open the main menu.
-  Open the directory.
-  Open the list of handsets.
-  Call up the menu for setting the handset's call volume (→ page 36).





In menus and lists

-  /  Scroll up/down line by line.





In input fields

You can use the control key to move the cursor up , down , right  or left .

During an external call

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

Keys on the keypad

-  /  /  etc.
Press the matching key on the handset.
-  Enter digits or letters.

Correcting incorrect entries


You can correct incorrect characters in the input fields by navigating to the incorrect entry using the control key. You can then:

- ◆ Use the display key **Del.** to delete the character to the left of the cursor
- ◆ Insert characters at the cursor position
- ◆ Overwrite the highlighted (flashing) character e.g., when entering time and date.

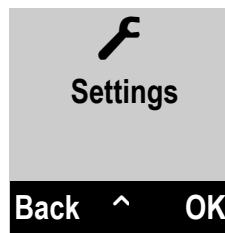
Menu guidance

Your telephone's functions are accessed via a menu consisting of several levels (menu overview → page 22).



Main menu (first menu level)

- ▶ With the handset in idle status, press the display key **Menu** or right on the control key  to open the main menu.

The functions in the main menu are displayed in the form of a list with names and icons (example on the right).



Selecting a function


- ▶ You can scroll between functions using the control key . The selectable function is shown in the display.
- ▶ Press the display key **OK** or right on the control key  to select the displayed function. This opens the corresponding submenu and the first entry is displayed.


If you press the display key **Back** or **briefly** press the end call key , the display returns to idle status.

Submenus

The functions in the submenu are displayed with the corresponding names.

Selecting a function


- ▶ You can scroll between functions using the control key . The relevant function is shown in the display.
- ▶ Press the display key **OK** to select the displayed function. This opens the corresponding submenu and the first entry is displayed.

If you press the display key **Back** or **briefly** press the end call key , you return to the previous menu level or cancel the operation.

Any settings you have not confirmed by pressing **OK** will be discarded.

Reverting to idle status

From any point in the menu:

- ▶ Press and **hold** the end call key  or
- ▶ Do not press any key: after 2 minutes, the display will **automatically** revert to idle status.

An example of the display in idle status is shown on page 15.

Activating/deactivating the handset




In idle status, press and **hold** the end call key (confirmation tone).

Activating/deactivating the keypad lock

The keypad lock prevents any unwanted use of the phone.



In idle status, press and **hold** the hash key (confirmation tone).

The keypad lock is activated or deactivated. When it is switched on, the  icon appears in the display.

If the keypad lock is activated, a corresponding message is displayed when you press a key.

The keypad lock deactivates automatically when you receive a call. It is reactivated when the call is finished.

Please note

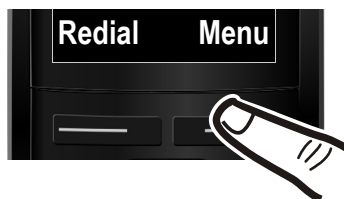
When the keypad lock is active, you cannot call emergency numbers.

Understanding the operating steps

The operating steps are shown in abbreviated form, for example:


Menu ▶ **Settings** ▶ **Eco Mode+** (☑ = on)

- ▶ This means you should proceed as follows:



- ▶ Press the key below **Menu** on the display screen to open the main menu.

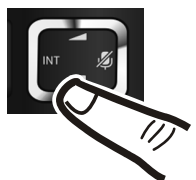



- ▶ Press down on the control key  ...



... until the **Settings** menu item appears.

- ▶ Press the key below **OK** on the display screen to confirm your selection.



- ▶ Press down on the control key  ...




... until the **Eco Mode+** menu item appears.

- ▶ Press the key below **OK** on the display screen to switch the function on or off (✓ = on).

- ▶ Press the key below **Back** on the display screen to jump back to the previous menu level.

Or

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

Menu tree

The menu entries are partially subdivided. The page numbers refer to the relevant description in the user guide.

To open the main menu: press the display key **Menu** when the phone is in idle mode.



Alarm Clock

Activation	→ page 33
Wake up time	→ page 33



Voice Mail

Play Messages	→ page 31
Network Mailbox	→ page 31



Settings

Date/Time	→ page 13	
Audio Settings	Call Volume	→ page 36
	Ringer Volume	→ page 37
	Advisory Tones	→ page 38
	Battery Low	→ page 38
	Ringtones (Handset)	→ page 37
Display	Screensaver	→ page 36
	Colour Schemes	→ page 36
	Contrast	→ page 36
Language	→ page 36	
Registration	Register Handset	→ page 33
	De-register Handset	→ page 34
Telephony	Auto Answer	→ page 36
	Listening in	→ page 35
	Calls List Type	→ page 30
	Music on hold	→ page 39
System	Reset Handset	→ page 38
	Base Reset	→ page 39
	System PIN	→ page 39
Eco Mode	→ page 32	
Eco Mode+	→ page 32	

Making calls

Making an external call

External calls are calls using the public telephone network.



Enter the number and press the talk key.

Or:



Press and **hold** the talk key and then enter the number.

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

During the call, the approximate duration is displayed.

Please note

Dialling with the directory (→ page 26), calls list (→ page 30) and redial list (→ page 28) saves you from repeatedly keying in phone numbers.

Ending a call



Press the end call key.

Accepting a call

The handset indicates an incoming call in three ways: by ringing, by a display on the screen and by the flashing talk key.

To accept the call, press the talk key.

If the handset is in the base and the **Auto Answer** function is activated (→ page 36), the handset automatically answers calls when you remove it from the base.

If the ringer is intrusive, you can deactivate it:

Menu ▶ **Silent** ▶ **OK**

You can accept the call as long as it is displayed on the screen.

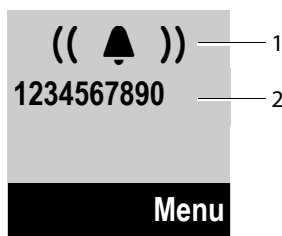
Calling Line Identification

When you receive a call, the caller's number and/or name is displayed on the screen if the following prerequisites are met:

- ◆ You have subscribed to the "Calling Line Identification" service from Belgacom.
- ◆ The caller has authorised transmission of his or her number (CLI).

Call display with CLIP/CLI

If the caller's number is saved in your directory, the caller's name will be displayed.



1 Ringer icon

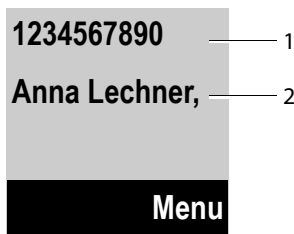
2 Number or name of caller

The following is displayed instead of the number:

- ◆ **External Call**, if no number is transmitted.
- ◆ **Withheld**, if the caller has withheld Calling Line Identification.
- ◆ **Unavailable**, if the number is not available (in the case of certain international calls, for example).

Display with CNIP

If you have subscribed to the "Display with CNIP" service, the screen will display **both** the number and the name of the caller, provided they are registered in the telephone directory databases. If the number of the caller is stored in your directory, the CNIP display is replaced by the corresponding directory entry.



1 Caller's number

2 Name

The display shows:

- ◆ **External Call**, if no number is transmitted.
- ◆ **Withheld**, if the caller has withheld Calling Line Identification.
- ◆ **Unavailable**, if the number is not available (in the case of certain international calls, for example).

Please note

The ringer can be switched off for unknown calls (calls with Calling Line Identification withheld) (→ page 37).

Notes on phone number display

By default, the number of the caller is shown in the display of your telephone. You do not have to make any other settings on your telephone.

However, if the caller's number is not displayed, this can be due to the following:

- ◆ You have not ordered "Call display with CLIP/CLI" from Belgacom
- ◆ Your telephone is connected via a PABX or a router with an integrated PABX (gateway) that does not transmit all information.

Is your telephone connected via a PABX/gateway?

You can establish this by checking for an additional device connected between your telephone and home connection, e.g., a PABX, gateway etc. In most cases, simply resetting this device will remedy the situation:

- ▶ Briefly disconnect the PABX power plug. Re-insert the plug and wait for the device to restart.

If the caller number is still not displayed:

- ▶ Check the CLIP (phone number display) settings of your PABX and activate this function if necessary. In the user manual for the device, search for the term "CLIP" (or an alternative term such as "calling line identification", "phone number transmission", "caller ID" etc.). If necessary, contact the device manufacturer.

Handsfree operation


In handsfree mode, you activate the loud-speaker so that you can hear the caller without having to hold the handset to your ear. You therefore have both hands free and other people can listen in on the conversation.

Please note


Inform your caller before you use the handsfree function so that the caller knows a third party may be listening.

Activating/deactivating handsfree mode

During a call, activate or deactivate handsfree mode.

-  Press the handsfree key. Each key press switches between earpiece and handsfree mode. If handsfree mode is activated, the key is lit up.

If you wish to place the handset in the base during a call:

- ▶ Press and hold handsfree key  while placing the handset in the base and for a further 2 seconds.

For instructions on adjusting the handsfree volume, see page 36.

Switching to mute

You can deactivate your handset's microphone during a call.



Press **right** on the control key to mute the handset. The display shows **Microphone is switched off**.

Press the key again to unmute the microphone.

Using the directory and lists

The options are:

- ◆ Directory
- ◆ Redial list
- ◆ Calls lists

You can create a personalised directory for your own individual handset. You can also send lists/entries to other handsets (→ page 27).

Directory


You can save a total of 150 entries in the directory.

Please note

To quickly access a number from the directory (shortcut), you can assign the number to a key (→ Using speed dial keys, page 27).

In the **directory**, you can save

- ◆ Numbers and corresponding names
- ◆ VIP ringtones and colours.


You open the directory in idle status using the  key.

Length of the entries

Number: max. 32 digits
Name: max. 16 characters

Saving the first number in the directory


 ▶ Dir. empty New Entry?


 Enter the number and press **OK**.

 Enter the name and press **OK**.

Storing a number in the directory

 ▶ **Menu** ▶ New Entry

 Enter the number and press **OK**.

 Enter the name and press **OK**.

Order of directory entries

Directory entries are generally sorted alphabetically by surname. Spaces and digits take first priority.

The sort order is as follows:



1. Space
2. Digits (0–9)
3. Letters (alphabetical)
4. Other characters

To work round the alphabetical order of entries, insert a space or a digit before the first letter of the name. These entries will then move to the beginning of the directory.

Selecting directory entries

 Open the directory.

You have the following options:

- ◆ Use  to scroll through the entries until the required name is selected.
- ◆ Enter the first character of the name, if necessary scroll to the entry with the  key.

Dialling with the directory


 ▶  (Select entry)

 Press the talk key.


Managing directory entries

  (Select entry)


Menu Press the display key.

The following functions can be selected with :

VIP Caller Melody

Mark a directory entry as a VIP (Very Important Person) by assigning a specific ringtone to it. The entry is flagged with the  icon in the directory. You recognise VIP calls by the ringtone.

VIP Caller Colour


Mark a directory entry as a VIP (Very Important Person) by assigning a specific background colour to it. The entry is displayed with this background colour in the address book and marked with the  icon. VIP calls are then recognised by their background colour.

Edit Entry

Edit the number if required and press **OK**.

Edit the name if required and press **OK**.

Use Number

Edit or add to a saved number and then dial it with  or save it as a new entry; to do so, display the number and press:

Menu ▶ **Copy to Directory** ▶ **OK**

Delete Entry

Delete selected entry.

Send Entry

Send a single entry to a handset
(→ Transferring the directory to another handset, page 27).

Delete List

Delete **all** directory entries.

Send List




Send the entire directory to a handset
(→ Transferring the directory to another handset, page 27).



Shortcut


Assign the current entry as a shortcut to a selected key (→ Using speed dial keys, page 27).

Using speed dial keys

You can assign directory entries to the keys

 and  – :

  (select entry) ▶ **Menu**

▶ **Shortcut** ▶  (press the key you want to assign the number to)



To dial, press and **hold** the required speed dial key.

Transferring the directory to another handset

You can transfer directory entries from other handsets to your new handset – even entries from old handsets.

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.

  (Select entry) ▶ **Menu** (Open menu)

▶ **Send Entry / Send List**



Select the internal number of the receiving handset and press **OK**.

You can transfer several individual entries one after the other by responding to the **Entry copied. Next entry?** prompt with **OK**.

A message appears on the display to confirm a successful transfer. You will hear the confirmation tone.

Please note:

- ◆ Entries with identical numbers are not overwritten on the receiving handset.
- ◆ The transfer is cancelled if the phone rings or if the memory of the receiving handset is full.
- ◆ VIP melodies and colours assigned to entries are not transferred.

Adding a displayed number to the directory

You can copy numbers displayed in a list, e.g., the calls list or redial list, to the directory. If you have CNIP, the first 16 characters of the transmitted name are also copied across.



A number is displayed:

Menu ▶ Copy to Directory

- ▶ Complete the entry (→ Storing a number in the directory, page 26).

Copying a number from the directory





In some operating situations you can open the directory to copy a number (e.g., during an external call or in pre-dialling mode). Your handset need not be in idle status.

-  Open the directory.
-  Select an entry and press **OK**.




Redial list


The redial list contains the ten numbers last dialled with the handset (max. 32 numbers). If one of the numbers is in the directory, the corresponding name will be displayed.

Manual redial

-  Press the talk key **briefly**
- Or**
- Redial**
-  Press the display key.
-  Select entry.
-  Press the talk key. The number is dialled.

Managing entries in the redial list

-  Press the talk key **briefly**
- Or**
- Redial**
-  Press the display key.
-  Select entry.
- Menu**
- Open menu.

The following functions can be selected with :

Use Number

(As in the directory, → page 27)

Copy to Directory (→ Storing a number in the directory, page 26)

Delete Entry


Delete selected entry.

Delete List

Delete **all** entries in the redial list.

Function of the message key



Opening lists

Use the message key  to open the following lists:

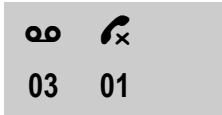
- ◆ Network mailbox (PhoneMail)
(→ page 31).
- ◆ Calls list


An advisory tone sounds as soon as a **new entry** arrives in a list.

Depending on the type of the new entry, an icon appears in the display while in **idle status**:

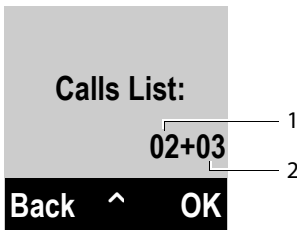
Icon	New message ...
	... on the network mailbox (PhoneMail)
	... in the missed calls list

The number of **new** entries is displayed under the corresponding icon.




After pressing the message key , you can see all lists containing messages and the network mailbox list.

The list is displayed with the number of new entries (1) and the number of old, read entries (2) (example):

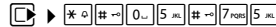


Select a list with . To open, press **OK**.

Activating/deactivating flashing message key



You can specify whether you want the message key  to flash for missed calls (default setting). Proceed as follows:

- ▶ Press the following keys in sequence:



You will see:

975

- ▶ Press  or  to determine the setting for missed calls:



The message key flashes (it goes off when the key is pressed)

Or 

The message key does not flash

Your selection is displayed (e.g., 1):

975 SET: [1]


- ▶ Press the display key **OK**.

Calls list

Prerequisite: Calling Line Identification Presentation (CLIP, page 23)

Depending on the type of list, the calls list contains the last 25 numbers of

- ◆ All calls
 - Accepted calls
 - Unanswered calls
- ◆ Missed calls

In idle status, you can open the calls list by pressing the message key .

Setting the calls list type

Menu ▶ **Settings** ▶ **Telephony**
▶ **Calls List Type**

Missed Calls / All Calls

Select and press **OK** ( = on).

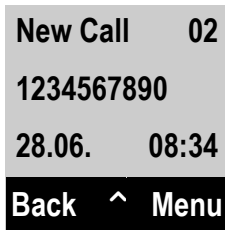


Press and **hold** (idle status).


The calls list entries are retained when you change the list type.

List entry

Example of list entries:



- ◆ Status of entry
 - **New Call:** New missed call.
 - **Old Call:** Entry already read.
 - **Call recv.:** Call was answered.
- ◆ Entry number
- ◆ Number or name of caller
- ◆ Call date and time (if set, → page 13).

Press the talk key  to call the selected caller back.

Use the **Menu** display key to select the following options:

Delete Entry

Delete selected entry.

Copy to Directory (→ Storing a number in the directory, page 26)

Delete List


Delete **all** entries in the list.

After exiting the calls lists, all viewed entries are assigned the status "old".

Using the network mailbox (PhoneMail)

The following information is only applicable when using your handset with a Twist 451 base. If you have registered your handset to a different base, please refer to your base user guide.

Using fast access for the network mailbox (PhoneMail)

To access the answering machine, simply **press and hold** the  key – you do not have to select it via the menu.

Setting the network mailbox number

You only need to enter the number of the network mailbox.

Menu ▶ **Voice Mail** ▶ **Network Mailbox**
( = selected)



Enter the network mailbox number and press **OK**.

The setting for fast access applies to all handsets.

Calling the network mailbox



Press and hold. You are connected straight to the network mailbox.

Please note

You can also connect to the network mailbox via the menu:

Menu ▶ **Voice Mail** ▶ **Play Messages**

ECO DECT

You are helping to protect the environment with your telephone.

Reducing energy consumption

Your telephone has a power-saving adapter plug and uses less power.

Reducing radiation

The radiation from your telephone is reduced **automatically**:

- ◆ **Handset:** The closer the handset is to the base, the lower the radiation.
- ◆ **Base:** The radiation is reduced to virtually zero when only one handset is registered and the handset is placed in the base.

You can reduce the radiation from the handset and base even more by using **Eco Mode**:

Eco Mode

Reduces radiation from the base and handset by 80% – whether you are making a call or not. **Eco Mode** reduces the range of the base by approx. 50%. Using **Eco Mode** always makes sense when a reduced range is sufficient.

Switching off radiation

Eco Mode+

When you activate **Eco Mode+**, the radiation (DECT transmission power) of base and handset is switched off automatically and only turns on when calls are made. This is also true when multiple handsets are used, if the handsets support **Eco Mode+**.

Eco Mode / **Eco Mode+** can be activated/deactivated independently of one another and can also be used with multiple handsets.

Activate/deactivate Eco Mode:

Menu ▶ **Settings** ▶ **Eco Mode**

OK

Press the display key.
(An advisory message appears when Eco Mode is **activated**; confirm with **OK**.) ☒ = on.



Activate/deactivate Eco Mode+:

Menu ▶ **Settings** ▶ **Eco Mode+**


OK

Press display key (☒ = on).

Status displays

Display icon	
	Reception strength: – Good to poor – No reception
	Eco Mode+ enabled (displays instead of the reception strength icon when in idle status)

Please note

- ◆ When using **Eco Mode+** you can ensure that the range of the base is sufficient by pressing and **holding** the talk key . You hear the dial tone if the base can be reached.
- ◆ When **Eco Mode+** is enabled:
 - Call setup is delayed by approx. 2 seconds.
 - Handset standby time is reduced by approx. 50%.
- ◆ Registering handsets that do not support **Eco Mode+** causes the mode to be deactivated on the base and all other handsets.
- ◆ Activating **Eco Mode** reduces the range of the base.

Using the handset as an alarm clock

Prerequisite: The date and time have already been set (→ page 13).

Activating/deactivating the alarm clock

Menu ▶ Alarm Clock ▶ Activation (☑ = on)

After you activate the alarm clock, the menu for setting the wake up time opens automatically.

The ☹ icon and wake up time are shown on the display.

A wake-up call is signalled on the display (→ page 3), with the selected ringer volume and melody (→ page 37). The wake-up call sounds for 60 seconds. If no key is pressed, the wake-up call is repeated twice at five minute intervals and then switched off.

During a call, the wake-up call is only signalled by a short tone.

Setting the wake-up time

Menu ▶ Alarm Clock ▶ Wake up time



Enter the wake up time in hours and minutes, then press **OK**.

Deactivating the wake-up call/ repeating after a pause (snooze mode)

Prerequisite: a wake-up call is sounding.

Off Press the display key. The wake-up call is deactivated.

Or

Snooze Press the display key or any key. The wake-up call is deactivated and then repeated after 5 minutes. After the second repetition the wake-up call is deactivated completely.

Using multiple handsets

Registering handsets

You can register up to four handsets on your base. **Each** additional handset must be registered with the base in order for it to work properly!

Registering a handset to a Twist 451

You must manually register the handset on both the handset (1) and the base (2).

Once registration is complete, the handset returns to idle status. The handset's internal number is shown on the display, e.g., INT 1. If not, repeat the procedure.

1) On the handset

Menu ▶ Settings ▶ Registration
▶ Register Handset



If required, enter the system PIN for the base (the default is **0000**) and press **OK**.

The display shows **Handset is registering**.

2) On the base

▶ Within 60 seconds, press and **hold** the register/paging key on the base (→ page 2) (for approx. 3 seconds).

Registering other handsets

You can manually register other handsets and handsets for other devices with GAP functionality as follows.

1) On the handset

▶ Start to register the handset as described in its user guide.


2) On the base


▶ Press and **hold** the register/paging key on the base (→ page 2) (approx. 3 sec.).

De-registering handsets

You can de-register all other registered handsets from each of the registered handsets.

Menu ▶ Settings ▶ Registration
▶ De-register Handset

 Select the internal number you wish to de-register and press **OK**.
(The handset you are currently using is highlighted with <).)

 Enter the current system PIN and press **OK**.



OK Press the display key.

Locating a handset (paging)

You can locate your handset using the base.

- ▶ **Briefly** press the register/paging key on the base (→ page 2).
- ▶ All handsets will ring at the same time ("paging"), even if the ringtones are switched off.



Ending paging

- ▶ **Briefly** press the registration/paging key on the base or press the talk key  or end call key  on the handset.




Making internal calls

Internal calls are free calls between handsets that are registered with the same base.

Calling a specific handset

 Initiate internal call.
 Enter the number of the handset.



Or:

 Initiate internal call.
 Select handset.
 Press the talk key.

Calling all handsets ("group call")


 Press and **hold**.

Or:


 Initiate internal call.
 Press the star key.

Or:

 Initiate internal call.


Call All Select and
 press the talk key.
All handsets are called.


Ending a call

 Press the end call key.

Transferring a call to another handset/making an internal consultation call

You are talking to an external participant and can call an internal participant at the same time to forward the call or to consult.


 Open the list of handsets.
The external participant hears music on hold, if activated (→ page 39).

 Select a handset or **Call All** and press **OK**.

When the internal participant answers:


- ▶ If necessary, announce the external call.

Either

 Press the end call key. The external call is transferred to the other handset.

Or



Back Press the display key. You are reconnected with the external participant.

When transferring a call, you can also press the end call key  before the internal participant answers.

If the internal participant does not answer or the line is busy, the call will automatically return to you.

Accepting a waiting call

If you receive an **external** call during an **internal** call, you will hear the call waiting tone (short tone). With Calling Line Identification, the caller's number or name will appear in the display.

-  Press the end call key to end the internal call.
-  Press the talk key to accept the external call.


Listening in to an external call (conference)

Prerequisite: The **Listening in** function must be activated.

You are conducting an external call. An internal participant can listen in on this call and take part in the conversation. All the participants are made aware of additional listeners by a signal tone.


Activating/deactivating listening in

Menu ▶ **Settings** ▶ **Telephony**
▶ **Listening in**

Press **OK** to activate/deactivate the function ( = on).


Internal listening in


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

-  Press and **hold** the talk key.

You can listen in to the call. All participants hear a signal tone. During this time, this handset displays the **Conference Call** message and it is not possible to dial another number from this handset.


Ending listening in

-  Press the end call key.
- All participants hear a signal tone.

If the **first** internal participant presses the end call key , the handset that has "listened in" remains connected to the external participant.

Changing the name of a handset

The names "INT 1", "INT 2" etc. are assigned automatically on registration. You can change these names. The name must be no more than 10 characters. The changed name is displayed in every handset's list.

-  Open the list of handsets. Your own handset is indicated by <.

-  Select handset.

- Menu** Open menu.

Rename

-  Enter the name.

- OK** Press the display key.

Handset settings


Your handset comes with default settings, but you can change the settings to suit your individual requirements.

Changing the display language




You can view the display texts in different languages.


Menu ▶ **Settings** ▶ **Language**

The current language is indicated by a .

 Select a language and press **OK**.

If you accidentally choose a language you do not understand:

 ▶  

 Select the correct language and press **OK**.

Setting the display/screensaver

You have a choice of four colour schemes and several different contrasts. You can also configure a screensaver.

Menu ▶ **Settings** ▶ **Display**

You have the following options:

Screensaver

In idle status a digital clock can be displayed as a screensaver. This replaces the idle status display. You can choose between **No Screensaver** and **Digital Clock**.

The screensaver is not displayed in certain situations e.g., during a call or if the handset is de-registered.

To show the display in idle status, briefly press end call key .


Colour Schemes

You can view the display backlight in different colours. Four colour schemes are available.


Contrast

Nine contrast settings are available.

Activating/deactivating auto answer

If you activate this function, when you receive a call you can simply lift the handset out of the base without having to press the talk key .

Menu ▶ **Settings** ▶ **Telephony**
▶ **Auto Answer**

OK Press the display key  = on).

Changing the handsfree/earpiece volume

You can set the volume for handsfree mode and earpiece mode to five different levels.


In idle status:

 ▶ **Call Volume**

Earpiece Volume / Handsfree Volume

Select and press **OK**.




Set the volume (e.g., volume 3 = .

OK

Press the display key to save the setting.

During a conversation via the earpiece or in handsfree mode:





Press the control key to open the menu for setting the volume. Set the earpiece or handsfree volume by pressing .

The setting will automatically be saved after approximately 3 seconds or press the display key **OK**.

Please note

You can also set the call volume using the menu (→ page 22).

Changing ringtones

- ◆ **Volume:**
You can choose between five volumes (e.g., volume 3 = ) and the "crescendo" ring (volume increases with each ring 6 = ).
- ◆ **Ringtones:**
You can select from a list of pre-loaded ringtones and melodies.

You can set different ringtones for the following functions:

- ◆ Internal calls
- ◆ External calls
- ◆ Alarm clock

Setting the ringer volume

The ringer volume is the same for all types of ring.

In idle status:

 ► **Ringer Volume**

 Set the volume.

OK Press the display key to save the setting.

Please note

You can also adjust the ringer volume via the menu (→ page 22).

Setting ringtone

Set different ringtones for external calls, internal calls and the alarm clock.



For internal calls and the alarm clock

In idle status:

 ► **Ringtones (Handset)**

Internal Calls / Alarm Clock

Select and press **OK**.

 Select melody and press **OK**
( = selected).


For external calls:

In idle status:

 ► **Ringtones (Handset)**

External Calls

Select and press **OK**.


 can be used for the following:

Melodies

You can set the ringtone as described above.

Time Control

You can specify a time period when you do not want the telephone to signal external calls e.g., during the night.

Activation is switched on or off by pressing **OK** ( = activated)

Settings

Ringer off from: / Ringer off until:


Enter time in 4-digit format.

Please note

During this period, you will continue to receive calls from numbers to which you have assigned a personalised melody/background colour in the directory (VIP).

Anonymous Calls Silent

You can set your handset so that it does not ring for calls where Calling Line Identification has been withheld. The call will only be signalled on the display.

Switch the **Anonymous Calls Silent** function on or off by pressing **OK**
( = activated).

Please note

You can also set the ringtones via the menu (→ page 22).


Activating/deactivating the ringer

You can:

- ◆ Permanently deactivate the ringer in idle status or when receiving a call
- ◆ Deactivate the ringer for the current call only.


The ringer cannot be re-activated while a call is in progress.

Deactivating the ringer permanently

 Press and **hold** the star key.

The  icon appears in the display.

Reactivating the ringer

 Press and **hold** the star key.

Deactivating the ringer for the current call

Menu ▶ **Silent** ▶ **OK**


Activating/deactivating advisory tones/battery warning tones

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

- ◆ **Advisory Tones**
 - **Confirmation tone:** at the end of an entry/setting and when a new entry arrives in the calls list.
 - **Error tone:** when you make an incorrect entry.
 - **Key click:** every key press is confirmed.
- ◆ **Battery Low**

The battery requires charging.

▶ **Advisory Tones / Battery Low**

Select and press **OK** to activate or deactivate ( = activated).

The **menu end tone** when scrolling at the end of a menu cannot be deactivated.

Restoring the handset default settings

You can reset any individual settings and changes that you have made.

The following settings are **not** affected by a reset:

- ◆ Registering the handset to the base
- ◆ Date/time
- ◆ Entries in the directory, calls lists

Menu ▶ **Settings** ▶ **System** ▶ **Reset Handset**


OK Confirm prompt.

Base settings

The base settings are carried out using a registered handset.

Activating/deactivating music on hold

Menu ▶ **Settings** ▶ **Telephony**
▶ **Music on hold**

Press **OK** to activate or deactivate music on hold ( = on).

Protecting against unauthorised access

Protect the system settings of the base station with a PIN known only to yourself. The system PIN must be entered when, for example, registering/de-registering a handset to/from the base or when restoring the default settings.

Changing the system PIN

You can change the 4-digit system PIN set on the base (default setting: **0000**) to a 4-digit PIN that only you know.

Menu ▶ **Settings** ▶ **System** ▶ **System PIN**



Enter the current system PIN and press **OK**.



Enter your new system PIN and press **OK**.

Resetting the system PIN

If you have forgotten your system PIN, you can reset the PIN to the original code **0000** using the button on the base. **This will also reset other settings**; see the section entitled "Resetting the base to the default settings".

Resetting the base to the default settings

When restoring default settings:

- ◆ Individual settings are reset
- ◆ All lists are deleted
- ◆ **Eco Mode** and **Eco Mode+** are deactivated

The date and time are retained.

Resetting the base via the menu

When resetting via the menu

- ◆ Handsets are still registered
- ◆ The system PIN is not reset.

Menu ▶ **Settings** ▶ **System** ▶ **Base Reset**

OK Press the display key.

Resetting the base using the button on the base

When resetting the base using the button on the base

- ◆ All handsets are **de-registered** and
- ◆ The system PIN is reset to the original code **0000**

Carry out the following steps:

- ▶ Remove the mains cable from the base
- ▶ Hold down the registration/paging key on the base (→ page 2) and reconnect the power cable to the base at the same time. Hold the key down for at least 5 seconds.

Please note

All handsets are de-registered and must be re-registered. All settings are reset to the default settings.

Connecting the base to the PABX

The following settings are only necessary if your PABX requires them; see the PABX user manual.

Dialling mode and Flash time

Changing the dialling mode


The following dialling modes can be selected:

- ◆ Tone dialling (DTMF)
- ◆ Pulse dialling (PD).

Menu Open main menu.

* 0 # → 0 5 # → 1 1

Press keys.

 1 **OK** Pulse dialling mode (DP).

Or:

 0 **OK** Tone dialling (DTMF).

Please note

Tone dialling (DTMF) is now the most common dialling mode. Pulse dialling mode (PD) is used only for a few old PABXs.


Setting flash time

Your phone is preset for operation on the main connection. For operation on a PABX, you may have to change this value. Please refer to the user guide for your PABX.

Menu Open main menu.

* * # → 0 5 # → 1 2


Press keys.

 Enter number for the flash time and press **OK**.

0 = 80 ms; 1 = 100 ms; 2 = 120 ms;
3 = 400 ms; 4 = 250 ms; 5 = 300 ms;
6 = 600 ms; 7 = 800 ms

Setting pauses


Changing the pause after line seizure

You can change the length of the pause that is inserted between pressing the talk key  and sending the number.

Menu Open main menu.

* 0 # → 0 5 # → 1 9

Press keys.

 Enter number for the length of the pause (1 = 1 sec.; 2 = 3 secs; 3 = 7 secs) and press **OK**.


Changing the pause after recall key

You can change the length of the pause if your PABX requires this (refer to the user guide for your PABX).

Menu Open main menu.

* 0 # → 0 5 # → 1 4

Press keys.

 Enter a number for the length of the pause (1 = 800 ms; 2 = 1600 ms; 3 = 3200 ms) and press **OK**.

Switching temporarily to tone dialling (DTMF)

If your PABX still operates with pulse dialling (PD), but you need tone dialling for a connection (e.g., to listen to the network mailbox), you must switch to tone dialling for the call.


Prerequisite: You are conducting a call or have already dialled an external number.

* * Press the star key.

After the call ends, pulse dialling is automatically reactivated.

Questions and answers

The table below contains a list of common problems and possible solutions.

<p>The display is blank.</p> <ol style="list-style-type: none"> 1. The handset is not activated. <ul style="list-style-type: none"> › Press and hold the end call key . 2. The battery is empty. <ul style="list-style-type: none"> › Charge the battery or replace it (→ page 10).
<p>"Base" flashes on the display.</p> <ol style="list-style-type: none"> 1. The handset is outside the range of the base. <ul style="list-style-type: none"> › Move the handset closer to the base. 2. The base's range is reduced because Eco Mode is activated. <ul style="list-style-type: none"> › Deactivate Eco Mode (→ page 32) or reduce the distance between the handset and the base. 3. The base is not activated. <ul style="list-style-type: none"> › Check the base power adapter (→ page 9). 4. Handset has not been registered with the base or has been de-registered. <ul style="list-style-type: none"> › Register the handset (→ page 33).
<p>The handset does not ring.</p> <ol style="list-style-type: none"> 1. The ringtone is switched off. <ul style="list-style-type: none"> › Activate the ringtone (→ page 38). 2. The phone only rings if the phone number has been transferred. <ul style="list-style-type: none"> › Activate the ringtone for unknown calls (→ page 37).
<p>You cannot hear a ringtone/dialling tone from the fixed line.</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"> › Please always use the phone cord supplied or ensure that the pin connections are correct when purchasing from a retailer (→ page 45).

Each incoming call resets the date/time incorrectly.

The date and time are sent via e.g., your network provider, a router or PABXs during calling line display. This data may be incorrect.

- › Set the date/time correctly e.g., on the router or PABX.
- › Do not automatically copy the date/time → page 14.

Error tone sounds after system PIN prompt.


You have entered the wrong system PIN.

- › Reset the system PIN to 0000 (→ page 39).

Forgotten system PIN.

- › Reset the system PIN to 0000 (→ page 39).

The other party cannot hear you.

You pressed the mute key  during a call. The handset is "muted".

- › Unmute the microphone (→ page 25).

You hear an error tone when keying an input.

Action has failed/invalid input.

- › Repeat the process.
Watch the display and refer to the user manual if necessary.

You cannot listen to messages on the network mailbox.

Your PABX is set to pulse dialling.

- › Set your PABX to tone dialling.

Exclusion of liability

Some displays may contain pixels (picture elements), which remain activated or deactivated.

This is completely normal and does not indicate a fault.

Declaration of Conformity

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

Country-specific conditions have been taken into account.

We, Gigaset Communications GmbH, declare, that the Twist 451 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 60950-1 + A11 + A1
(equivalent to 2006/95/EC)

Art. 3.1 a) EMF/SAR:

1999/519/EC
(EU-Council Recommendation)
EN 50371 (handset)
EN62311 (base station)

Art. 3.1 a) Acoustic Shock:

ITU-T P360 (handset)

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 1999/5/EC Declaration of Conformity is available at this Internet address:
www.gigaset.com/docs

Senior Approvals Manager

CE 0682

Guarantee terms

The Equipment you have bought has been carefully selected by Belgacom 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 Teleboutique 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. The addresses for our Teleboutiques and authorized agents are given in the Information Section of the White Pages.

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

Belgacom 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 pre-date 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, aerals, 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 terminal Equipment undertaken by the Customer himself/herself or through the services of persons not designated by Belgacom;
- if the Customer removes or tampers with the manufacturer's serial numbers and/or brand names on the terminal Equipment.

Belgacom shall not be liable for any indirect or immaterial loss sustained by the Customer as a result of the malfunctioning of the terminal Equipment, such as any loss of production, revenue or contracts.

The General Terms and Conditions for the Sale of Terminal Equipment can be obtained on request from any Belgacom service available to the public or at www.belgacom.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.

Ecological energy consumption

The use of ECO DECT (→ page 32) saves energy and makes an active contribution towards protecting the environment.

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 general household waste using designated local authority sites.



If a product displays this symbol of a crossed-out rubbish bin, the product is subject to European Directive 2002/96/EC.

Correct disposal and separate collection of used equipment will help to prevent potential negative consequences for the environment and human health. They are a prerequisite for the re-use and recycling of used electrical and electronic equipment.

For further information on disposing of your used equipment, please contact your local authority or your refuse collection service.

Appendix

Caring for your telephone

Wipe the unit with a **damp cloth** or an **anti-static cloth**. Do not use solvents or microfibre cloths.

Never use a dry cloth; this can cause static.

Contact with liquid

If the handset has come into contact with liquid:

1. **Switch the handset off and remove the batteries immediately.**
2. Allow the liquid to drain from the handset.
3. Pat all parts dry, then place the handset with the battery compartment open and the keypad facing down in a dry, warm place **for at least 72 hours** (not in a microwave, oven etc.).
4. **Do not switch on the handset again until it is completely dry.**

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

Specifications

Batteries

Technology:

Nickel-metal-hydride (NiMH)

Size: AAA (Micro, HR03)

Voltage: 1.2 V

Capacity: 550 - 1000 mAh

The device is supplied with two approved batteries.

Handset operating times/charging times

This handset can charge batteries up to a capacity of 1000 mAh. Using special high-performance batteries or batteries with high capacities is not recommended for cordless phones.

The operating time of your handset depends on the capacity and age of the batteries and the way it is used. (Standby times/talktimes/operating times are maximum possible times, charging times are typical values).

	Capacity (mAh) approx.			
	550	700	800	1000
Standby time (hours)	220	255	290	360
Talktime (hours)	20	23	27	33
Operating time for 1.5 h of calls per day (hours)				
- Without Eco Mode+	135	155	180	255
- With Eco Mode+	95	110	130	155
Charging time in base (hours)	6	7	8	10
Charging time in charger (hours)	5.5	6.5	7	9

Base power consumption

	Twist 451
In standby mode *	approx. 0.7 W
Base in standby mode **	< 0.4 W
During a call	approx. 0.5

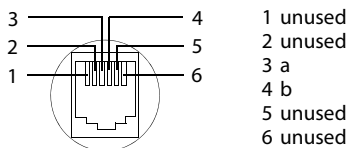
* Charged handset in base

** Handset not in base

General specifications

DECT standard	Supported
GAP standard	Supported
No. of channels	60 duplex channels
Radio frequency range	1880–1900 MHz
Duplex method	Time multiplex, 10 ms frame length
Repeat frequency of the transmission pulse	100 Hz
Length 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 300 m outdoors, up to 50 m indoors
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



Writing and editing text

The following rules apply when writing text:

- ◆ Multiple letters and characters are assigned to each key between **0...** and **9 num** as well as *** ↵** and **# ↵**.
- ◆ Control the cursor with **⬅** **⬆** **⬇** **⬅**.
- ◆ Characters are inserted at the cursor position.
- ◆ Press the display key **Del.** to delete the **character** to the left of the cursor.
- ◆ The first letter of the name of directory entries is automatically capitalised, followed by lower case letters.

Setting upper/lower case or digits

Repeatedly press the hash key **# ↵** to change the text input mode.

123	Digits
Abc	Upper case *
abc	Lower case

* First letter in capitals, all others in lower case

When the mode is switched, the active mode is indicated at the bottom left of the screen.

Writing names

- ▶ Enter the individual letters/characters by pressing the corresponding key.

The characters assigned to the key are shown in a selection line at the bottom left of the screen. The selected character is highlighted.

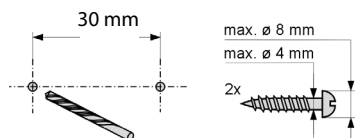
- ▶ **Briefly** press the key several times in succession to select the required letter/character.

Standard characters

	1x	2x	3x	4x	5x	6x	7x	8x	9x	10x	11x	12x	13x	14x	15x	16x
1 0...	1	€	£	\$	¥	¤										
2 abc	a	b	c	2	ä	á	à	â	ã	ç						
3 def	d	e	f	3	ë	é	è	ê								
4 ghi	g	h	i	4	ï	í	ì	î								
5 jkl	j	k	l	5												
6 mno	m	n	o	6	ö	ñ	ó	ò	ô	õ						
7 pqr	p	q	r	7	ß											
8 tuv	t	u	v	8	ü	ú	ù	û								
9 wxyz	w	x	y	9	ÿ	ý	æ	ø	å							
0 1)	⬅	.	,	? !	⬅	0	+	-	:	;	‘ ’	“ ”				
* ↵	*	/	()	<	=	>	%									
# ↵		#	@	\	&	\$										

- 1) Space
- 2) Line break

Mounting the base on the wall



approx. 7.4 mm



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