SIEMENS

Cordless telephone
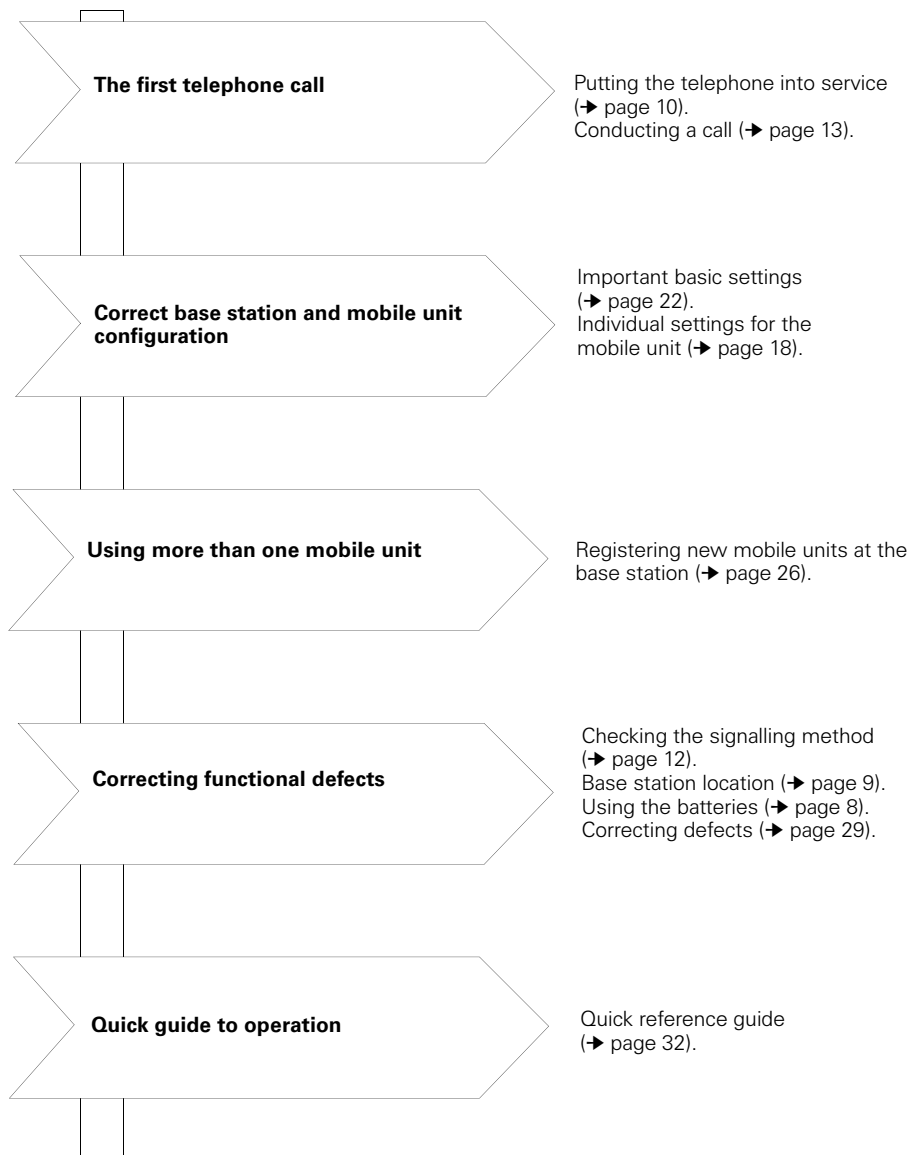## for up to 4 mobile units

CT100

Operating instructions

Please read the safety precautions outlined in these operating instructions and before putting the equipment into service
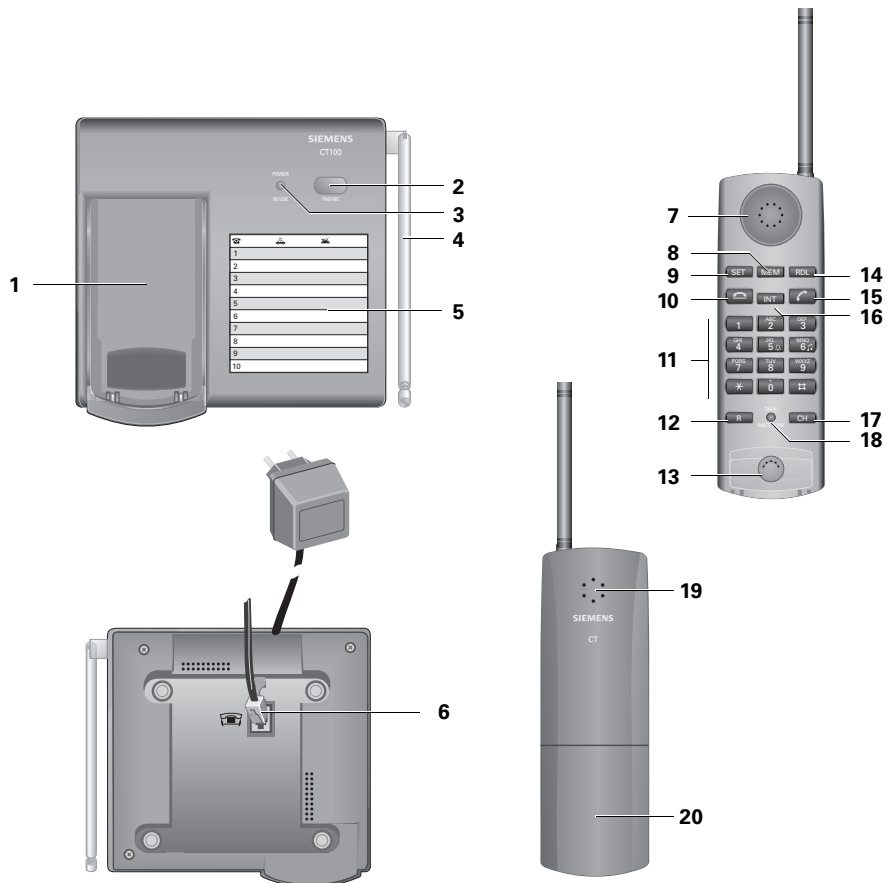
Your guide to this manual

Your guide to this manual

The first telephone call

Putting the telephone into service
(➜ page 10).
Conducting a call (➜ page 13).

Correct base station and mobile unit configuration

Important basic settings
(➜ page 22).
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mobile unit (➜ page 18).

Using more than one mobile unit

Registering new mobile units at the
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Correcting functional defects

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Correcting defects (➜ page 29).

Quick guide to operation

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(➜ page 32).

Overviews

1 Handset rest/charging unit
2 Paging key (broadcast call for registered mobile units)
3 "Mains power on/dial-up line seized" LED
4 Antenna
5 Labelling fields for speed dialling keys/ inserting a notepad
6 Connection socket for telephone connection cable

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8 Speed dialling key
9 Set key
10 End call key (OFF)
11 Dialling keypad
12 Recall key (Flash)
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14 Redial key
15 Talk key (ON)
16 INT key/mute key
17 Channel change key
18 "Call status/battery low" LED
19 Ringer loudspeaker
20 Battery compartment (lid for removal)

Overviews

Keys and displays

Base station keys

Paging key for broadcast calls to all registered mobile units.

Base station LED displays

LED on:
Base station connected to the mains power

LED flickers:
– when registering/de-registering mobile units
– in base station programming mode

LED flashes slowly:
Dial-up line seized

LED flashes fast:
– in the case of external or internal call

LED flashes rapidly at intervals:
Mobile unit is inserted in the base station

Mobile unit keys

(SET) SET key for initiating and ending procedures for storing data

(MEM) Speed dialling key for administering and dialling speed dialling numbers

(RDL) Redial key/manual pause

(1) to (0), (*) and (#) Dialling keys for call numbers and input keys for procedures

(R) Recall key (flash) for sending a signal to the public telephone network or PBXs

(INT) Iinternal key for broadcast calls for all registered mobile units

Talk key for setting up external connections

End call key for ending calls
This key is used to terminate a procedure when making settings

(CH) Key for searching for another/a stronger HF channel

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Overviews

Mobile unit LED displays

LED on:
Dial-up line seized

LED flickers:
– in the case of external or internal call
– in the case of channel search, channel change
– in the case of base station signal interference
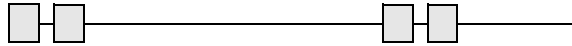
LED flashes quickly:
– in the case of mute (microphone mute function)
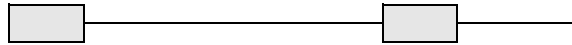– in programming mode

LED flashes rapidly at intervals:
Battery must be recharged

Acoustic signals

Internal call

External call

Recall

Positive confirmation beep

Negative confirmation beep

Range warning

Contents

Contents

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Safety precautions

Safety precautions

> **!** Only use approved nickel-cadmium (NICd) batteries.
> The following battery type must be used for the mobile unit:
> e.g. GP 30AAK 3BMX   3,6V   300mA
>
> This type of battery is available from the usual outlets.
>
> **Never** use other batteries! This can destroy the battery unit (dangerous).

- Avoid contact with water and fire.
- Do not dispose of old, defective batteries with normal household refuse.
- Battery packs become warm during charging. This is normal and not dangerous.
- Do not use any third-party charging units. This could damage the batteries.
- Do not expose the mobile unit to environments where there is risk of explosion.

Important information on installation and operation

Notes on installing the base station

Location/installation surface

● The base station should not be placed near other electronic appliances, such as Hifi, office or microwave devices as this may adversely affect operation.

● Place the base station on a flat, non-slip surface. Under normal circumstances, the rubber feet will not leave marks. However, due to the vast array of surface finishes applied to furniture, marks on the installation surface cannot be ruled out when in contact with equipment components.

● Do not install the base station in damp environments or in the immediate vicinity of heat sources. Do not expose the base station to direct sunlight.

● To ensure interference-free reception and to increase the range between the base station and the mobile unit, it may be advisable to install the base station on the next floor.

Notes on operating the mobile unit

● Do not install the mobile unit in environments where there is risk of explosion.

● Do not expose the mobile unit to direct sunlight or other heat sources.

● Do not place the mobile unit on metal objects (metal plates, cars) (this may affect the range).

● Do not carry the mobile unit by the flagpole antenna.

● Always include the operating instructions when lending the mobile unit to a third party.

Conformity

This telephone complies with the requirements of the EU guidelines:

CE

89/336/EEC   "Electromagnetic Compatibility"

73/23/EEC   "Electric Operating Resources for Use within Specific Voltage Parameters"

and thus bears the CE mark.

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Step-by-step guide to putting into service

Step-by-step guide to putting into service

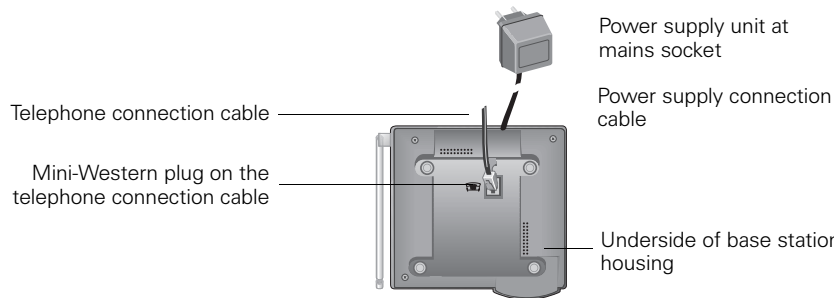## Step 1: Check the contents of the package

> **ⓘ** The CT100 base station must be connected before the mobile unit is put into service.

The default package contains:

- a CT100 base station,
- a CT100S mobile unit,
- a telephone connection cable with Mini-Western plug,
- a screw-on antenna,
- a rechargeable battery pack (already inserted in the mobile unit),
- operating instructions.

Step 2: Connect the base station

Power supply unit at mains socket

Power supply connection cable

Telephone connection cable

Mini-Western plug on the telephone connection cable

Underside of base station housing

Telephone connection cable

Connect the telephone connection cable's Mini-Western plug at the base station.

Insert the telephone connection cable's Mini-Western plug in the Mini-Western telephone socket.

Power supply connection cable

Insert the power supply unit of the power supply cable in a mains socket. The device is designed for operation at 220/230 V. If you require a different voltage, switch your power supply unit to 110/115 V (only possibly with specific country versions).

Pull out the antenna

Place the antenna in an upright position and pull it out fully.

Step-by-step guide to putting into service

Step 3: Attach the antenna to the mobile unit

Screw the antenna supplied firmly onto the mobile unit.

Step 4: Insert the rechargeable battery pack in the mobile unit

Power is supplied to the mobile unit via a rechargeable battery pack.

Lid for battery compartment ————

Battery compartment ———— and battery pack
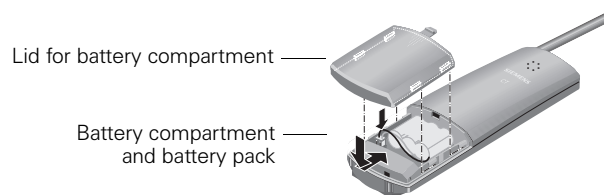
Remove the lid from the battery compartment by pressing down on the grooved triangle. The rechargeable battery is already inserted in the unit when delivered.

Insert the battery pack connection plug in the socket provided in the battery compartment. The red cable is on the inside and the black cable is on the outside. You will hear a positive confirmation beep when the battery pack is correctly inserted.

Replace the battery compartment lid.

Step 5: Charge the batteries

To charge the battery pack, insert the mobile unit in the base station rest or charging unit. Insert the mobile unit with the keypad facing down.

You will hear a confirmation beep if the mobile unit has been correctly inserted. The LED at the base station lights up briefly several times.

> The battery pack must now recharge before you can telephone or make settings. We recommend that the battery pack be charged for approximately 16 hours without interruption, e.g. overnight.
>
> For more information on the use of batteries see
> ➜ page 8.

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Step-by-step guide to putting into service

Step 6: Register the mobile unit at the base station

The mobile unit supplied is already registered at the base station. Additional mobile units are automatically registered when inserted in the base station charging unit. The registration procedure is indicated by a flickering LED at the base station. A positive confirmation beep indicates the successful registration of the mobile unit.

> 🛈 You can register up to 4 mobile units. A new mobile unit cannot not be successfully registered if all mobile unit places are seized. If this is the case, delete the registration procedure for all mobile units at the base station and register them again
> (Regeneration ➜ page 26).

Step 7: Check the signalling method

Telephones can operate with the following signalling methods:
- Dial pulsing (DP)
- Dual-tone multifrequency signalling (DTMF)

CT100 is set to DTMF signalling with a flash time of 90 ms by default.

Check the signalling method of your own telephone

📞 Press the Talk key (corresponds to "lift the handset" in conventional telephones).You will hear the dial tone (on-hook signal).

⌨ Press any digit, e.g. 2. If you can still hear the **dial tone** (on-hook signal), you must set the signalling method to **dial pulsing** (DP).

Set dial pulsing

(SET) (#) (#)   Initiate the procedure.

(1) (SET)   Set dial pulsing (DP).

You can now make external calls with CT100.

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Conducting calls

Incoming calls

Answering a call

A call is indicated at the base station by the flashing Line LED and at all registered mobile units by the ringer and flashing LED.

When the mobile unit is in the base station or charging unit:

Remove the mobile unit from the charging unit. You are connected.

When the mobile unit is not in the base station or charging unit:

Press the Talk key on the mobile unit. You are connected.

Ending a call

Replace the mobile unit in the base station or charging unit. The connection is cleared down.

or

Clear down the connection ("End call").

Outgoing calls

Calling external parties

Press the Talk key. You can hear the dial tone (ring tone).

Enter the required call number via the mobile unit keypad.

You will hear the ring tone.

Ending a call

Replace the mobile unit in the base station or charging unit. The connection is cleared down.

or

Clear down the connection ("End call").

> ℹ️ You can recall the party with the redial feature.

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Conducting calls

Redialling

The last call number dialled is stored in the redial memory and can be dialled again.

You can hear the dial tone.

(RDL) The last call number dialled is redialled. You can hear ring tone.

Inserting a manual dial pause

If you repeatedly get the busy signal after the CO code or the country code in the case of automatic dialling, insert a manual dial pause, e.g. between the CO code or the country code and the call number:

(RDL) Press (RDL) during the dial operation.

Redialling with speed dialling numbers

If speed dialling numbers have been programmed (➔ page 20), you can dial the a specific number by pressing the associated speed dialling number.

You can hear the dial tone (on-hook signal).

(MEM) Press the speed dialling key and enter the speed dialling number (0 to 9) for the required call number.

> Call numbers that are dialled with speed dialling numbers are not transferred to the redial memory.

Temporary changeover to dual-tone multifrequency dialling (DTMF)

Dual-tone multifrequency signalling (DTMF) is necessary, e.g. if you want to query an answering machine or voicemail system.

If your CT100 is set to dial pulsing (DP), you can change over temporarily to dual-tone multifrequency signalling after connection setup.

You can check which signalling method is set if you are not sure (➔ page 12). Dual-tone multifrequency signalling is set by default.

Prerequisite: an external connection exists.

Conducting calls

✱ Press the star key. The signalling method is set to DTMF signal-ling. All digits dialled (including digits after ✱) are transferred to the redial memory.

or

(SET) ✱ Press the keys shown consecutively. The signalling method is set to DTMF. Only the digits entered before you confirm with (SET) ✱ are transferred to the redial memory.

> ℹ Once you have switched to DTMF signalling, you can switch back to dial pulsing during the call with (SET) ✱ or the recall key (R). Resetting the signalling method with (R) is preferable if the cordless telephone is con-nected to a PBX, since (R) simultaneously initiates a consultation call.
>
> The telephone automatically reverts to the original sig-nalling method when the connection is cleared down.

Deactivating the microphone (mute function)

You can deactivate the microphone during a call. You can consult with colleagues in the room, for example. The external party is placed on hold and cannot listen in.

[INT] Press the INT key on the mobile unit. The microphone is deacti-vated. Consult with your colleagues in the room.
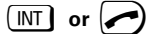
[INT] **or** ☎ Activate the microphone. You are reconnected to the external party.

Changing channels manually

The base station and mobile unit communicate with each other via a HF channel. It is possible to search for a better HF channel if the quality of a connection is falling.

(CH) Press the key shown on the mobile unit.
The search procedure is automatically performed. The connec-tion is placed on hold during the search.

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Collective call

Collective call

Collective call to all mobile units from the base station

Broadcasting a message from the base station is useful, for example, for locating mislaid mobile units.

> ℹ You can even make a collective call from the base station if you have only one mobile unit.

Press the green paging key on the base station. All mobile units that can be reached are called for approximately 30 seconds.

> ℹ If you receive an external call during this time, the collective call is ended and the external call is signalled.

Ending a call before it has been answered

Press the green paging key at the base station again.

or

The call is ended at the individual mobile unit.
The collective call is definitively ended only after ringing for 30 seconds at all mobile units.

Transferring calls

When operating with more than one mobile unit by means of collective call

You can transfer an external call to other connected mobile units. In this case, all mobile units are simultaneously called (collective call).

[INT] Press the INT key.

  Press the End call key **or** replace the mobile unit in the base station or charging unit.

All connected mobile units are called.
The external call is placed on hold.

  The external call can be accepted by each mobile unit either by pressing the Talk key or by removing the mobile unit from the charging unit (both options are also to be performed at the initiating mobile unit).

> The collective call is also signalled at the initiating mobile unit after approx. 30 seconds (recall).
>
> You have 60 seconds to accept the call at a connected mobile unit. The line is disconnected if the call is not accepted by any mobile unit during this time.

Consultation call/call transfer (only in the case of operation at a PBX)

Initiating a consultation call

You can transfer a call to an internal party when operating at a PBX. See also the PBX operating instructions.

(R) Initiate the consultation call. You can hear the dial tone. The external call is conducted.

  Enter the number of the required extension. The party is called.

Wait until the internal party answers. Inform the party that an external call is on hold.

Ending a consultation call/resuming a call

(R) End the consultation call. You are reconnected to the first party.

or

  Transfer the external call.

Individual settings at the CT100S mobile unit

Individual settings at the CT100S mobile unit

You can program your mobile unit to suit your own individual re-
quirements. All settings are made directly on the mobile unit.
When operating with more than one mobile unit, the mobile unit
must be registered at the base station (➔ page 26).

Setting the ringer volume

You can set the volume of the ringer used to signal calls at your
mobile unit. The ringer has 2 volume settings or can be deacti-
vated:

Level 0   =   ringer off
Level 1   =   low
Level 2   =   high

The default setting is level 2.
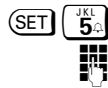
(SET) (5 JKL)   Initiate the procedure. You will hear the ringer volume set.

Enter the digit for the required ringer volume (0 to 2).
You will hear the ringer volume set.

(SET)   Save the setting.

Setting the ringer tone

You can set the tone of the ringer used to signal calls at your mo-
bile unit. The ringer tone has 6 melody settings. The default set-
ting is melody 6.

> If several mobile units are being operated in one room,
> it is easier to distinguish their ringers if they are set to
> different tones.

(SET) (6 MNO)   Initiate the procedure. You will hear the ringer tone set.

Press the digit for the required ringer tone (1 to 6).
You will hear the ringer tone set.

(SET)   Save the setting.

Individual settings at the CT100S mobile unit

Activating/deactivating notification and warning beeps

Activating/deactivating the key confirmation beep

If the key confirmation beep is switched on, each keystroke is confirmed acoustically. You can switch the key confirmation beep on (status 1, factory default) or off (status 0).

SET 3(DEF)   Initiate the procedure.

1 SET   Activate the key confirmation beep.

or

0 SET   Deactivate the key confirmation beep.

Activating/deactivating the volume of the key confirmation beep

You can set the volume of the key confirmation beep to high or low (status 1, high = factory default/status 0, low).

SET 1 RDL 3(DEF) 1   Initiate the procedure.

1 SET   Key confirmation beep high.

or

0 SET   Key confirmation beep low.

Activating/deactivating the battery warning beep

If the battery warning beep is activated, a beep sounds when the battery charge is too low. The battery warning beep can be activated (status 1, factory default) or off (status 0).

SET 1 RDL 3(DEF) 2(ABC)   Initiate the procedure.

1 SET   Activate the battery warning beep.

or

0 SET   Deactivate the battery warning beep.

Activating/deactivating the range warning

If the range warning beep is switched on, a beep sounds when the mobile unit is too far from the base station. The range warning can be switched on (status 1) or off (status 0, factory default).

SET 1 RDL 3(DEF) 3(DEF)   Initiate the procedure.

1 SET   Activate the range warning.

or

0 SET   Deactivate the range warning.

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Individual settings at the CT100S mobile unit

Activating/deactivating automatic call acceptance

If the automatic call acceptance function is active, calls are accepted by removing the mobile unit from the base station. If this feature is deactivated, you must press the Talk key (line key) to accept a call.

The automatic call acceptance feature can be switched on (status 1, factory default) or off (status 0).

[SET] [1] [RDL] [3 DEF] [0 +]　　Initiate the procedure.

[1] [SET]　　Activate automatic call acceptance.

or

[0 +] [SET]　　Deactivate automatic call acceptance.

Speed dialling numbers

You can store speed dialling numbers for frequently used call numbers. External connections can be dialled with speed dialling numbers (➔ page 14).

> 🛈　You can store up to 10 speed dialling numbers.
>
> The external call number stored can have up to 22 digits and can contain digits, star keys, hash keys, recall keys and redial keys (manual dial pause).
>
> You can also administer speed dialling numbers in the course of a call (notebook function).
>
> A labelling card is provided in the base station for noting the names of the stored call numbers.

Saving speed dialling numbers

You can store call numbers as speed dialling number.

[SET] [MEM]　　Initiate the procedure.

🔢　　Select the speed dialling number: enter a digit between 0 and 9.

🔢 [SET]　　**Enter and save** the external call number.

or

[RDL] [SET]　　**Enter and save** the call number from the redial memory.

Individual settings at the CT100S mobile unit

The call number entered is assigned to the selected speed dialling number. If the speed dialling number was already assigned to an external call number, the old call number is overwritten with the new number.

> The redial key can be used during the dialling operation to insert a dial pause (➔ page 14).

Notebook function

You called a party and want to store this number as a speed dialling number.

☎	You are conducting a call.
(SET) (MEM)	Initiate the procedure.
⌨	Select the speed dialling number: enter a digit between 0 and 9.
(RDL) (SET)	Press the keys shown to store the number as a speed dialling number.

Deleting individual speed dialling numbers

(SET) (MEM)	Initiate the procedure.
⌨	Select the speed dialling number: enter a digit between 0 and 9.
(SET)	Delete the speed dialling number.

Deleting all speed dialling numbers

(SET) (1) (RDL) (2) (5) (1)	Initiate the procedure.
(SET)	Delete all speed dialling numbers.

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Important basic settings

Important basic settings

Signalling method

Telephones can operate with the following signalling methods:

- Dial pulsing (DP)
- Dual-tone multifrequency signalling (DTMF)

Your CT100 is set to dual-tone multifrequency signalling (DTMF) with a flash time of 90 ms by default.

> **ⓘ** If your telephone is connected to a digital attendant console, you can use both DTMF and DP signalling. If this is the case, leave the default DTMF setting or re-set it, for example, after a relocation.

Checking the signalling method of your telephone

📞   Press the Talk key.
You will hear the dial tone (on-hook signal).

▦   Press any digit, e.g. 2. If you can still hear the **dial tone** (on-hook signal), you must set the signalling method to **dial pulsing** (DP).

Setting the signalling method

(SET) (♯) (♯)   Initiate the procedure.

(1) (SET)   Set the dial pulsing (DP).

or

(2) (SET)   Set dual-tone multifrequency signalling (DTMF).

Operating at a PBX

In order to be able to operate your CT100 at a PBX, you must first

1. set the signalling method,
2. enter the CO code.

Important basic settings

Signalling method setting options

The signalling method is set to

> DTMF/flash 90 ms

by default. To operate at a PBX, you must either switch to dial pulsing (if applicable) or change the flash time.

See also the PBX operating instructions.

CO codes

When operating your CT100 at a PBX, you can enter the CO code to connect through to the public telephone network. A three-second pause is automatically inserted after dialling the CO code.

> To find which CO code you must enter, please see the documentation for your PBX.

Entering the CO code

The CO code is a 1 to 3-digit number and can contain the numbers ⓪ to ⑨ as well as the keys ✳, ♯ and Ⓡ.
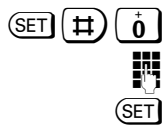
SET ♯ 0	Initiate the procedure.
▥	Enter the CO code (max. 3 digits).
SET	Save the setting.

Deleting the CO code

SET ♯ 0 SET	Delete the CO code.

Changing the pause length after the CO code

Possible pause lengths:
3 seconds (factory default)
6 seconds

SET ♯ 1 RDL	Initiate the procedure.
0 2 0 SET	Pause length 3 seconds.
or	
0 2 1 SET	Pause length 6 seconds.

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Important basic settings

Recall key (flash)

You can hold a consultation or forward a call in the course of a trunk call by pressing the recall key ⟨R⟩. Additional operation depends on your PBX. See also the corresponding information in the PBX operating instructions.

> The recall key is only implemented with the flash function. A ground key function is not available.

Setting the flash time
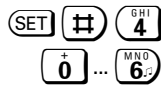
⟨SET⟩ ⟨#⟩ ⟨4⟩   Initiate the procedure.

⟨0⟩ ... ⟨6⟩   Set the flash time:
0   no recall key function
1   90 ms (factory default)
2   120 ms
3   180 ms
4   240 ms
5   300 ms
6   600 ms

⟨SET⟩   Save the flash time.

Pause after recall key

A dial pause is automatically inserted after you press the recall key. Possible pause lengths:
 800 ms (factory default)
1600 ms
3200 ms
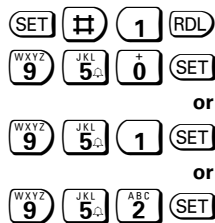
⟨SET⟩ ⟨#⟩ ⟨1⟩ ⟨RDL⟩   Initiate the procedure.

⟨9⟩ ⟨5⟩ ⟨0⟩ ⟨SET⟩   Pause length 3200 ms

          or

⟨9⟩ ⟨5⟩ ⟨1⟩ ⟨SET⟩   Pause length 1600 ms

          or

⟨9⟩ ⟨5⟩ ⟨2⟩ ⟨SET⟩   Pause length 800 ms (factory default)

Important basic settings

Automatic attenuation equalization

Your CT100 can equalize any strong attenuation on the lines in your telephone network.

(SET) (♯) (1) (RDL)   Initiate the procedure.

(4) (1) (0) (SET)   Deactivate the automatic attenuation equalization feature (factory default).

or

(4) (1) (1) (SET)   Activate the automatic attenuation equalization feature.

Resetting the CT100 base station to the default status

(SET) (♯) (1) (RDL)
(2) (5) (0) (SET)

This procedure resets the following settings to the default status:
- the signalling method (➜ page 22)
- the pause length according to the CO code (➜ page 23)
- the pause length according to the recall key (➜ page 24)
- the flash key (➜ page 24)
- automatic attenuation equalization (➜ page 25)

The following stored data is deleted:
- the CO code (➜ page 23)

Resetting the CT100S mobile unit to the default status

(SET) (1) (RDL)
(2) (5) (0) (SET)

Use this procedure to reset the following settings to the default status:
- the ringer volume (➜ page 18)
- the ringer tone (➜ page 18)
- the range warning (➜ page 19)
- the key confirmation beep (➜ page 19)
- the volume of the key confirmation beep (➜ page 19)

The following stored data is deleted:
- the redial memory (➜ page 14)
- the speed dialling memory (➜ page 14)

> **ℹ** The mobile unit remains registered.

Registering/de-registering mobile units at the base station

Registering/de-registering mobile units at the base station

You can operate up to four mobile units at a CT100 base station.

The mobile unit supplied is already registered at the base station. Each additional mobile unit must be registered at the base station.

Registering mobile units

Additional mobile units are automatically registered by inserting them in the charging unit. The registration operation is signalled by a flickering LED at the base station. Successful mobile unit registration is indicated by a positive confirmation beep.

> You can register up to 4 mobile units. A new mobile unit cannot be successfully registered if all mobile unit places are seized. If this is the case, de-register all mobile units and register them again at the base station (regeneration).

De-registering individual mobile units

SET | # | 1 | RDL
2 | 5 | 7 | SET

This procedure can be used to de-register a mobile unit at the base station. The individual mobile unit settings, e.g. speed dialling numbers, DTMF signalling, are maintained.

De-registering all mobile units

The following 2 steps are required in order to completely deregister the mobile units:

SET | 1 | RDL
2 | 5 | 7 | SET

1. Each individual mobile unit must be deregistered.

2. All mobile units at the base station must be deregistered. Disconnect the PSU from the mains socket (power supply disconnected).
Press the Paging key on the base station and hold depressed.
Continuing to hold the Paging key, reconnect the PSU to the mains socket. The base station LED starts to flicker and continues to do so for approx. 20 seconds. Once the LED goes on, all mobile units at the base station have been completely deregistered. The Paging key can then be released.

The mobile units can now be reregistered (see section on registering mobile units).

Important information

Inserting the labelling card

Your telephone is supplied with a labelling card which you can use to note the names belonging to the stored numbers.
The illustration shows you how to insert the card and the transparent foil cover.

Additional cut-out labelling cards are provided on the last page of these operating instructions.
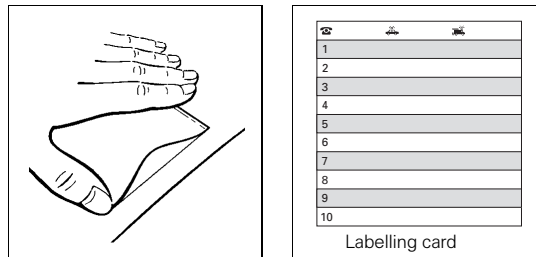
Labelling card

Alternatively, you can insert a self-adhesive 76 x 76 mm notepad (e.g. "Post-it" from Fa. 3M or Scotch).

To do this, remove the transparent foil cover and the labelling card. Remove the last page at the back of the notepad and insert the self-adhesive notepad in the recess on the base station.

Maintenance

Wipe the mobile unit and base station with a damp or anti-static cloth.

> ❗ Do not use a dry cloth as this may cause static charging!

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Important information

Terminal assignment of the telephone socket

See underside of the base station for terminal assignment of the telephone connection cable socket:

1	free
2	free
3	a
4	b
5	free
6	free
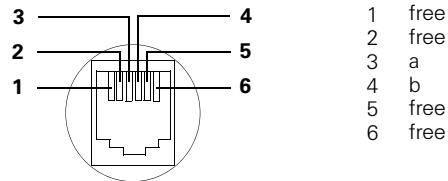
Operating with a telephone switch

You can connect CT100 to a telephone switch, e.g. AWADO. However, since CT100 does not have an earth wire or a W wire, telephone switches must feature loop current supervision. Telephone switches of this kind are available from your specialist dealer.

Technical data

Transmit power:	10 mW, average output per channel
Power consumption - base station:	in standby mode: approx. 0,5 W when in use: approx. 1 W
Serviceability - mobile unit (with fully charged battery):	in standby mode: up to 120 hours, when in use: up to 6 hours
Charging time in the base station:	approx. 10 - 15 hours
Signalling method:	DP (dial pulsing)/DTMF (dual-tone multifrequency signalling)
Dimensions - base station:	approx. 190 x 172 x 90 mm (L x B x H)
Dimensions - mobile unit (without antenna):	approx. 180 × 55 × 30 mm (L × B × H)
Weight:	Mobile unit with battery pack < 200 g
Connection cable length:	Telephone connection cable: approx. 3 m Power cable: approx. 2 m

Third party use/disposal

Please always include the operating instructions when lending your CT100 to a third party.

When the system or battery pack have reached the end of their service life, they should be disposed of in an environmentally friendly manner in accordance with relevant legislation.

Important information

Procedure in the case of malfunctions

Not every malfunction means that there is an actual defect in your equipment. In some situations, you may save time and money if you can eliminate the cause of simple faults yourself. The information below will help you to do this.

Symptom	Cause	Remedy
No LED display at the base station.	Power cable plug is not connected.	Check the plug connection at the base station and at the mains socket. If necessary remove it and plug it back in (➔ page 10).
"BATT LOW" display flashes at intervals.	Battery is (almost) flat.	Insert the mobile unit in the base station or charging unit to charge the battery.
LED on mobile unit flickers No radio connection to the base station. **or**	Mobile unit is not registered.	Register the mobile unit at the base station (➔ page 26).
Mobile unit does not receive a dial tone. **or**	Mobile unit is outside the base station range.	Move the mobile unit closer to the base station.
No connection is set up after a dialling operation.	Base station telescopic antenna is not pulled out	Place the telescopic antenna in an upright position and pull it out fully.
	Base station plug-in power unit is not correctly plugged in.	Check the plug at the mains socket for the base station. If necessary, remove it and plug it in again (➔ page 10).
Mobile unit does not ring.	Ringer volume is set too low.	Set the ringer volume at the mobile unit (➔ page 18).
No mobile unit function.	Battery is (almost) flat.	Insert the mobile unit in the base station or charging unit to charge the battery.
	Battery pack is not correctly inserted.	Check the battery connection at the mobile unit (➔ page 11).

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Important information

Symptom	Cause	Remedy
Disturbance or noise during a call.	Mobile unit is outside the base station range.	Move the mobile unit closer to the base station.
	Base station telescopic antenna is not pulled out.	Place the telescopic antenna in an upright position and pull it out fully.
	Mobile unit is too close to electronic equipment or metal objects.	Change the mobile unit position.
	Too much disturbance on the voice channel.	Change channel by pressing the CH key on the mobile unit.
No connection after dialling a call number; dial tone can still be heard.	Wrong signalling method.	Change the signalling method (➜ page 22).
No or incorrect connection when operating from a PBX.	CO code not entered or pause after CO code not correctly set.	Enter the CO code (➜ page 23); change the pause after the CO code (➜ page 23).

Accessories

All the following equipment is available from your specialist dealer.

CT100S mobile unit

You can operate up to 4 CT100S mobile units at the CT100 base station.

CT100L charging unit

Additional charging units are recommended when operating with several mobile units in order to guarantee mobile unit serviceability at all times.

CT100 quick reference guide

CT100 quick reference guide

Accepting a call:	Call rings: remove the mobile unit from the charging unit or press the Talk key 📞 .
External call:	Press the Talk key 📞 and then dial the call number ⊞ .
Collective call:	Press the paging key ⬭ at the base station. All mobile units connected are called.
Transferring a call via collective call (only when using more than one mobile unit):	Press (INT) and then end the call. Press 📞 on the mobile unit called. The call is transferred.
Consultation call (only when connected to a PBX):	Press (R), the call is put on hold. Dial the call number ⊞ and conduct the consultation call. Press (R) to switch back to the call on hold.
Redial:	Press 📞 followed by (RDL) . The last call number is dialled.
Storing a speed dialling number:	Press (SET) (MEM) and then select the speed dialling number with (0)...(9) . Enter the call number ⊞ and save it with (SET).
Dialling with speed dialling numbers:	Press 📞 (MEM) and then select the speed dialling number with (0)...(9) .
Setting the ringer volume:	Press (SET) (5), then select the ringer volume (1)...(2) and save it with (SET).
Setting the ringer tone:	Press (SET) (6), then select the ringer tone (1)...(6) and save it with (SET).

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