

DT290

Cordless Phone for MD110 Communication System

User Guide



Welcome to the User Guide for the DT290 cordless phone in the Ericsson MD110 communication system. It is a state-of-the-art business communications system. Its alliance of features and facilities effectively improves communications for virtually any kind of organisation.

There is a line of telephones designed for easy use in every situation to take full advantage of these advanced features and facilities.

Some markets use differing codes for some functions. In this guide, all functions are described using the most common code. The markets and their differing code is shown as a side note.

The User Guide describes the facilities of the DT290 phone as it is programmed at delivery from the factory. There may be some differences in the way your system is programmed. Please consult your system administrator if you need further information.

The latest version of this User Guide can also be downloaded from:
<http://www.ericsson.com/enterprise>

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Important

This section describes the information that is important to know before you use the DT290 phone and the functions described.

Note: *This User Guide describes the supported MD110 Communication System functions together with the most commonly used phone-specific functions. All phone-specific functions are listed in the menu structure, see section “[Menu structure](#)” on page 13.*

Before using the DT290 the first time you have to charge and connect the battery, see section “[Installation](#)” on page 84.

Coverage area

Your organisation's premises is covered by a number of cells which forms the coverage area. You can make and answer calls anywhere within this area; outside you will lose contact with the system.

Company coverage:



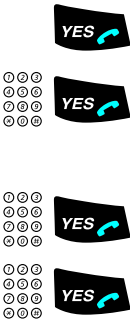
PIN code

Your phone is initially provided with a pre-set PIN code (Personal Identification Number). You should change this PIN code to a personal PIN code to prevent misuse.

To change the PIN code

Route: *Settings » PhoneLock » ChangePIN*

ChangePIN



Select.

Press.

EnterOldPIN: is displayed.

Enter the current PIN code (default 0000) and press.

Either EnterNewPIN: or Wrong PIN is displayed. In the latter case, you have entered a number that does not match the current PIN code.

Enter the four digits of the new PIN code and press.

RepeatNewPIN is displayed.

Enter the new PIN code again and press.

Either New PIN accepted or Wrong New PIN is displayed.

Note the new PIN code for future use.

If you incorrectly enter a new PIN code three times in a row, your phone leaves this menu option.

In other situations, if you enter an incorrect PIN code three times in a row, your phone is blocked and PIN Blocked, Unblock? is displayed. See section “[IPEI code](#)” on page 6 to unblock your phone.

IPEI code

If your phone is blocked because an incorrect PIN code has been entered three times, you can unlock it with the IPEI code (International Portable part Equipment Identity). After entering the IPEI code, you must enter a new PIN code.

The IPEI code is a unique code which has been assigned to your phone. The IPEI code can be found in the *ShowIPEI* menu.

If your phone is blocked, *PIN Blocked, Unblock?* appears. The phone must be unblocked before it can be used again.

To display the IPEI code

Route: *Information » ShowIPEI*



Select ShowIPEI and press.

Enter PIN: is displayed.

Enter the PIN code for your phone (default 0000) and press.

The 13-digit IPEI code is displayed.

Press to leave this menu.

Note: *Write down the IPEI code for future use. If you cannot retrieve the IPEI code, please contact your system administrator. Keep the IPEI code secret to prevent misuse of your phone.*

Unblock the DT290



Press.

Backdoor #: is displayed.

Enter the IPEI code and press.

EnterNewPIN# is displayed.

Enter the four digits of the new PIN code and press.

RepeatNewPIN is displayed.

Enter the new PIN code again and press.

Either *New PIN accepted* or *Wrong New PIN* is displayed. In the latter case, the new PIN and the code you have just entered do not match. If *New PIN accepted* appears, you can use the phone again.

Networks (menu option)

The menu option **Networks** should only be used for administration purposes by Ericsson service staff. Using this menu option may cause a logout from the DECT/GAP network, and no further calls will be possible.

Note: *In case of a logout, the phone must be logged on again by a service technician.*

Description



- 1 Antenna**
- 2 Volume Up**
Off-hook: raise earpiece volume. See section [“Settings and Adjustments”](#) on page 68.
- 3 Volume Down**
Off-hook: lower earpiece volume. See section [“Settings and Adjustments”](#) on page 68.
- 4 Off-hook / Yes**
Answer call, accept.
- 5 Clear (C) / Mute**
Delete latest entered digit. Backspace when editing text. Cancel a menu option. Microphone, ringer and warning on/off, see sections [“During Calls”](#) on page 24 and [“Settings and Adjustments”](#) on page 68.
- 6 Control key (up)**
Scroll up through menus or name list. Move left through the choices.
- 7 1 / Space**
Space when editing text. See section [“Phone Book”](#) on page 50.
- 8 Star / Pause / Text case**
Insert a dial tone pause. Upper/lower case in text mode. See section [“Phone Book”](#) on page 50.
- 9 Battery (rear side)**
See section [“Installation”](#) on page 84.
- 10 Microphone (rear side)**
- 11 Warning light**
Ringing, message waiting, battery low, exit cover area.
- 12 Earpiece**

Please note: *The phone may retain small magnetic articles around the earpiece region.*
- 13 Display (3 rows)**
Display at rest. Work is the network name and 132 is (your) extension number. See section [“Display signs and icons”](#) on page 11.
- 14 On/Off / On-hook / No**
Switch on/off, end call, one menu back. Cancel a menu option.

- 15 Control key (down)**
Scroll down through menus, name list. Move right in choices.
- 16 Keypad**
- 17 Hands-free**
Activate hands-free speaking. See sections “[Incoming Calls](#)” on page 17, “[Outgoing Calls](#)” on page 19 and “[During Calls](#)” on page 24.
- 18 R/Message**
Put call on hold (inquiry), take call off hold or enter the message system. See section “[During Calls](#)” on page 24.
- 19 Accessory connectors**
See section “[Installation](#)” on page 84.
- 20 Loudspeaker (rear side)**
For hands-free speaking function. See sections “[Incoming Calls](#)” on page 17, “[Outgoing Calls](#)” on page 19 and “[During Calls](#)” on page 24.

Display signs and icons

The display gives you visual feedback on all actions that you perform, and also textual warnings. The upper two rows are text rows (12 possible characters in each row), showing menus that you can access, names and numbers that you edit or dial, your phone ID etc. The lower row displays different statuses, visualized by icons. For more information see section “[Display Information](#)” on page 81.

The DT290 display



Signs in the text rows



Menu pointer / Diversion indicator

Shows the menu that can be accessed by pressing the YES key. When displayed before a name or number it indicates that the phone is diverted to another extension.



Number too long for display

There are more digits to the left.



Call List icon

Marks an entry in the Call List. Three different call types are displayed:

<- Incoming call








-> Outgoing call

x Missed call



Exclamation Mark

Marks an unread entry in an entry list.

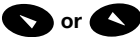
	<u>Display icons</u>
	Signal strength On when your phone is locked to the system. The bars indicate reception quality. Four bars indicate optimal reception.
	Ringer off Ringing signal muted or microphone off.
	Key lock Keys are locked.
	Call On when your phone is off-hook and flashes during ringing.
	Message Message received.
	Call info New unanswered entry in the <i>MissedCalls</i> list.
	Battery gauge The battery cells flash sequentially while the battery is charging and remain solid when charging is complete. Indicates the amount of talk and standby time left. Note: <i>An alarm sounds when there is less than 15 minutes calling time left in the battery.</i>

Additional display features

Depending on which network you are connected to, additional display features are available. For example, displaying the date and time. Ask your system administrator if you require additional display features.

Menu structure

The available phone-specific functions and network functions can be accessed via the DT290 menus.



Press to access the on-hook menu when in standby mode or to access the off-hook menu during a call (see below).

Menu Structure

Options available when “on-hook”

PhoneBook

Find&Call *

Store

Find&Edit *

DeleteAll *

Messages x *

Voice: x

Mailbox

AddNew

AddCallList

Edit

Delete

Settings

Alarm

AutoKeyLock

Alerts

PhoneLock

MasterReset

Language

MessageKey

Display

SetAlarm

AlarmOff *

RingVolume

RingType

KeySound

DiscreetRng

Vibrator

PowerOn

Subscript

ChangePIN

Mess.KeyNo

Light

Contrast

Networks **

SelectNet

Priority *

Rename

Delete

Subscribe

Internal

External

CallBack

Message

OnIfSilent

On

Off

Information

CallList *

MissedCalls *

LastCall *

TotalCalls

ShowPEI

DevServices *

Move within a menu.

Make selection.
Move to submenu.

Move to previous menu.

Move to idle display.

Options available when “off-hook”

Find&Call *

CallList *

GoToDTMF ***

DevServices *

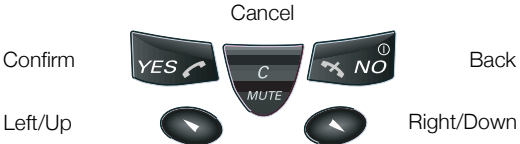
Notes:

* Available under certain conditions (e.g. entries stored).

** Only to be used by system administrator

*** Alternative menu DTMF-Long is not applicable for MD110.

Navigation keys



Switching On/Off

Switch on the DT290



Press until the display lights up.

If the phone does not switch on or the battery icon starts flashing, the battery is low. Charge the battery. While charging you can still use your phone.

Note: *If the signal strength icon is off and the message No network is displayed you cannot make or answer calls.*

Switch off the DT290

Note: *During calls, you cannot switch off your phone.*



Press until the display turns blank.

Your phone is switched off.

Free Seating (optional)

The free seating function is used for persons who have an office extension number but no telephone set of their own. For example, flexible office workers, persons mostly working outside the office, etc. As a free seating user and working from the office, you log on to any free telephone set that temporarily will be assigned with your extension number and your system authorities.

To log on

*** 1 1 ***

Press.



Enter the authorization code and press.



Enter your telephone number and press.

Wait for the call timer to start in the display.



Press to finish the procedure.

The display shows your telephone number.

Note: An earlier version of the free seating function use another procedure: To log on, press *** 1 0 *** extension No. **#**.

1 1



To log off

Press.

Wait for the call timer to start in the display.

Press to finish the procedure.

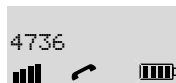
Note: *An earlier version of the free seating function use another procedure: To log off, press # 1 0 #.*

Incoming Calls

Answer calls

A ringing signal indicates an incoming call and the warning light flashes quickly. The ringing type tells you whether the call is an internal, external or call-back call and the display indicates an incoming call. You can also see who has called you in the Call List.

Display example:



If the number is stored in the Phone Book, the associated name is shown instead.



Press to answer.

If you do not answer the call, the number is stored as a missed call in the Call List. See section “[Call List](#)” on page 22.

Note: *Calls can be answered at any time, no matter if you are programming, or keying in a number etc.*

Hands-free



Press to answer the call in hands-free speaking mode.

You are connected to the caller via the loudspeaker and microphone.

End the call



Press.

The duration time of the call is shown.

Mute ring sound or warning sound

If the phone rings or a warning sounds at an inconvenient moment you can temporarily suppress the sound:



Press to turn off the ringing for the moment.

The ring off icon appears.



Even with the sound off, you can still answer the call. The warning light and hook icon keep flashing. If you do not answer the call, the number is stored as a missed call in the Call List. To turn off the ring sound permanently, see section “[Volume control](#)” on page 68.

Note: *If you decide not to answer the call, press the NO key. The call is rejected and there is no entry in the Call List.*

For another extension

You can answer a call to another telephone. When the telephone rings and there is nobody to answer the call:



Call the ringing extension and press.

Busy signal.

8

Press.

Note: *France press **4**; Sweden press **6***

Call List

The last 20 dialled numbers, missed calls and answered calls are stored in the Call List (if supported by the network). See section “[Call List](#)” on page 22.

Outgoing Calls

Make calls

How to make internal and external calls. You can also make a call via the Phone Book, see section “[Make a call](#)” on page 51.

Notes:

Correct a wrong entry by pressing the C/MUTE key.

If you decide not to make the call while keying in the number, press the NO key to stop.

If you receive a call while keying in the number, simply press the YES key to answer.

You can make your calls faster by using abbreviated numbers. See section “[Abbreviated Numbers](#)” on page 47.



Internal calls

Dial the extension number and press.

Your phone will go off-hook and dial the number. On the display the duration of the call is shown.

External calls

0



Dial the digit or digits to get an external line.

Dial the external number and press.

Your phone will go off-hook and dial the number. On the display the duration of the call is shown.

To insert a pause if you have to wait for dial tone:



Press.

Off-hook dialling

If you prefer to dial a number off-hook:



Press and hold and wait for the dial tone.

Note: A short press activates the Call List.



Dial the number and wait for a connection.



Hands-free

While you are waiting for a connection, dial tone or during the call:



Press to switch the call to hands-free speaking mode.

You are connected to the caller via the loudspeaker and microphone.

To end calls



Press to end the call.

The duration of the call is displayed.

Call List

The last 20 dialled numbers, missed calls and answered calls are stored in the Call List (if supported by the network). See section ["Call List"](#) on page 22.

Last External Number Redial

When you initiate an external call the system automatically stores all the dialled digits, irrespective of whether the call was successful or not.



Press to redial the saved number.

The last external number is automatically redialled.

Note: Sweden and Finland press *** * 0 YES**.

Call Statistics

Your phone can tell you the duration of your last call and display the total time of all external calls made.

To see the time spent on your last call

Route: Information » LastCall

LastCall



Select.

Press.

The length of the last call is displayed in hours, minutes and seconds.



Press to leave this menu.

To see the time spent on all outgoing external calls

Route: Information » TotalCalls

TotalCalls



Select.

Press.

The total time of all external calls made is displayed in hours, minutes and seconds.



Press to leave this menu.

or



Press to delete the entry from the list.

Call List

The last 20 dialled numbers, missed calls and answered calls are stored in the Call List (if supported by the network).

The different call types in the Call List are marked with the following icons:

 *Incoming call*

 *Outgoing call*

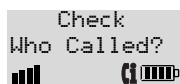
 *Missed call*

Notes:

An exclamation mark (!) after an entry number means that you have not read that entry yet.

The CallList menu is only displayed, if names or numbers are available for returning a call.

When there are new unanswered calls, the call info icon is displayed and the display shows:



Press to show who called and return the call.

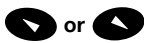
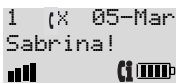
or



Press to not return the call.

To return a call**Press shortly.**

The Call List including dialled numbers, missed calls and answered calls appears. Each entry in the list is displayed with a number in the upper left corner of the display. The phone beeps if there are no names or numbers available for redial.



or

**Scroll until you have the right number or name.****Press to dial the selected number.**

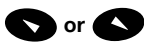
Tip: If you press the C/MUTE key instead of the YES key, you can edit the number before dialling.

Redial number from Call List

Dialled numbers are stored in the Call List (if supported by the network).

**Press shortly.**

The Call List appears.



or

**Scroll until you have the right number or name.****Press to dial the selected number.**

Tip: If you press the C/MUTE key instead of the YES key, you can edit the number before dialling.

You can also access the Call List via the `CallList` menu.

Route: *Information » CallList*

You can permanently store the numbers from your Call List in your Phone Book. See section [“Add numbers from the Call List”](#) on page 55.

During Calls

Mute microphone

To mute the microphone, during an ongoing conversation:



Press and hold.

The caller will not hear the conversation in your room. Short beeps and the ring off icon indicate that the microphone is off.



Press quickly.

Short beeps and the ring off icon indicate that the microphone is off.



Press again, to turn the microphone on.

***Note:** It is advised to use this feature instead of putting a call on hold. A call on hold may be diverted to your operator, directly or after some time.*

Hands-free speaking

You can switch to hands-free speaking (and back to standard speaking procedure) at any time during a call.

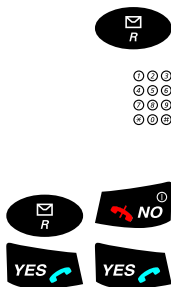


Press to switch hands-free speaking on or off.

During hands-free speaking, you are connected to the caller via the loudspeaker and microphone.

Inquiry

You have established a voice connection and want to make an inquiry to an internal or external party.



Press.

Dial tone.

Call the second party.

The first party is put on hold. When the other party answers, you can switch between the calls (Refer Back), transfer the call, create a conference or end the call.

Press to end the inquiry call and return to the first party.

Refer Back

2

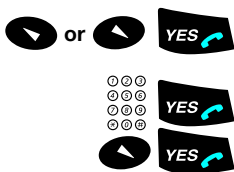
Press to refer back to the other party.

The party you talked to is put on hold, the other party is connected.

Inquiry via the Phone Book

If you don't know the number by heart, you can make an inquiry to a second party in the Phone Book during a call.

Route: *PhoneBook » Find&Call*



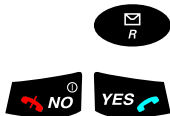
Select Find&Call and press.

Enter Name: is displayed.

Enter the first letters of the name and press.

Scroll down until you find the name and press.

The first party is put on hold and the second party is dialled. When the other party answers, you can switch between the calls (refer back), transfer the call, create a conference or end the call.



Press to end the inquiry call.

The second party is disconnected.

Press to return to the first party.

Transfer

You want to transfer an ongoing call.



Press.

Dial tone.

Call the second party.

Press before or after answer.

The ongoing call is transferred.

Note: *If you have put more than one call on hold, the last call that was put on hold will be transferred. If the dialled extension is busy or transfer is not allowed, your phone will ring again.*

Conference

With this procedure you can include up to seven parties in a conference. Only the conference leader can admit participants. During the conference a tone will be heard every 15 seconds.

Note: *The conference tone might be disabled for your system.*

You have an ongoing conversation and want to establish a telephone conference. You will become the conference leader.



3

Press.

Dial tone.

Call the second party.

Wait for answer.

Press to establish a conference.

Repeat the procedure to add more conference members.



Press to leave the conference.

On hold

You can temporarily put the ongoing call on hold. Calls put on hold can be resumed on your own phone or another.



Press.
Dial tone.



Press.

To resume the call on your extension



Press within 30 seconds.

If not resumed within 30 seconds you will be called back. An unanswered external call will be re-routed to the operator after another 30 seconds.



Press.

To resume on another extension



Call the extension where the call was put on hold and press.
Busy signal.

8

Press.

Note: France press **4**; Sweden press **6**.

Call Waiting

If you hear the Call Waiting tone during an ongoing conversation, another person is trying to contact you.

To terminate the ongoing call and answer the waiting call



Press to finish the ongoing call.

The waiting call is signalled on your phone.



Press to answer the new call.

Note: *The Call Waiting function might be blocked for use on your extension (programmed by system administrator).*

Dialling during a connected call

When calling interactive teleservices, e.g. telephone banks, you need to use Dual Tone Multi Frequency (DTMF) signals. If your exchange is not already programmed to automatically convert your entered digits into DTMF signals, you need to activate the function during the call.

During an ongoing call:



Press and dial the required digits.

Note: *Finland press **1** and dial the required digits.*

When You Receive a Busy Signal

Busy extension or external line

If you call an extension and receive a busy signal or get no answer or all external lines are busy, you can use these methods:

Automatic Call-back, extension

If a called extension is busy or there is no answer:

6

Press.

Note: *France, Sweden and Finland press 5.*



Press to finish the procedure.

You are called back (recall ringing signal) when the ongoing call is finished or the next time a new call is finished. You must answer within eight seconds, otherwise the Call-back service is cancelled.



Press when you are called back.

The system calls the extension.

Note: *Call-backs can be activated on several extensions at the same time.*

Automatic Call-back, external line

If all external lines are busy when the YES key is pressed after dialling the digit or digits to get a line and the external number (On-hook dialling):

6 #

Press.

Notes:

If you were dialling Off-hook (the YES key was pressed before the digit or digits to get a line), you are required to add the external number now.

*France, Sweden and Finland press **5 #**.*



Press to finish the procedure.

When an external line becomes free you will be called back (special ringing signal). You have to answer within eight seconds otherwise the Call-back service is cancelled.




Press when you are called back.

The system calls the external number.

Note: *Only one Call-back can be activated on a busy external line.*

Cancel any single Call-back

3 7 * 

Press and dial the extension number.

Note: *To cancel a single Call-back on a specific external line, dial the digit or digits to get a line instead of the extension number.*

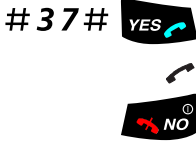


Press.

Wait for the call icon to stop flashing.



Press to finish the procedure.



Cancel all call-backs

Press.

Wait for the call icon to stop flashing.

Press to finish the procedure.

Activate Call Waiting

If you urgently wish to contact a busy extension or a busy external line, you can notify it by a call waiting signal.

5

Press.

Note: *France and Finland press 6; Sweden press 4.*

Keep your phone off-hook.

When the called extension or the external line becomes free, it will be called automatically.

Note: *The Call Waiting function might be blocked for use on your extension (programmed by system administrator). If Call Waiting is not allowed you will continue to receive a busy signal.*

Intrusion on a busy extension

You can intrude on an ongoing call on a busy extension.

4

Press.

Note: *France and Sweden press 8.*

Before the Intrusion is executed a warning tone is sent to the parties in the ongoing call. A three party call is established and a warning tone is heard.

Notes:

The warning tone might be disabled for your system.

The Intrusion function might be blocked for use on your extension (programmed by system administrator). If Intrusion is not allowed, you will continue to receive a busy signal.

Call Forwarding

Internal Follow-me

All calls to your extension are diverted to another extension of your choice (within the private network). During Follow-me the display shows a > after your number. On the next row the answering position number is shown. You will also hear a special dial tone that indicates that your line has Follow-me. You can still make calls as usual.

21
○○○
○○○
○○○
○○○

Order

Press and dial the answering position number.

*Note: U.K. press *2* and number.*

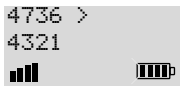



Press.

Wait for the call icon to stop flashing.

Press to finish the procedure.

Display example:



2 1 # Cancel

Press.

Note: U.K. press # 2 # YES.**Wait for the call icon to stop flashing.****Press to finish the procedure.**

External Follow-me

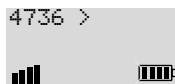
If External Follow-me is allowed, you can have all calls to your extension. During Follow-me the display shows a > after your number. You will also hear a special dial tone that indicates that your line has Follow-me. You can still make calls as usual.

* 2 2 #
⓪ ⓪ ⓪
⓪ ⓪ ⓪
⓪ ⓪ ⓪
⓪ ⓪ ⓪Order

Press.

Dial the digit or digits to get a line and the external number.# 

Press.

**Wait for the call icon to stop flashing.****Press to finish the procedure.***Display example:*



Cancel

Press.

Press.

Wait for the call icon to stop flashing.

Press to finish the procedure.

Bypass Diversion

If Bypass Diversion is allowed from your extension, you can bypass an activated Diversion/Follow-me on a specific extension.



Press.

Dial the extension number.

Press and wait for answer.

You will be connected to the specified extension, regardless of which type of Diversion/Follow-me the called extension has activated.

Personal Number (optional)

With this function, you can be reached at your normal office telephone number even if you are in another room, out of the office, or at home, etc.

Depending on the functionality of your office exchange, you have either one individual single search profile (standard) or you can choose between five individual search profiles (optional).

A search profile can be designed to fit the situation, i.e. in the office, traveling, at home, etc. Both internal or external telephone numbers can be used in a profile.

At your request, the search profiles are programmed or modified by the system administrator. See section [“To design and order your search profiles”](#) on page 37.

When the function is activated, incoming calls are transferred to different telephones or to back-up services in the order you choose. If an answering position in the profile is busy, the call can be transferred to another predefined position in the profile, i.e. voice mail or a colleague. You can activate the function from your own office telephone, or when out of the office by using the Direct Inward System Access function (DISA).

Note: *If the operator is included in the activated profile as an answering position, always inform the operator if you are absent. If Voice Mail is included in the activated profile, always update your greeting with Absence Information.*

To activate or change to another profile from your office telephone

✱ 1 0 ✱

Press.

(1 – 5)

Dial the search profile digit.



Press.

Wait for the display to show **Executed.**



Press to finish the procedure.

1 0



To cancel from your office telephone

Press.

Press.

Wait for the call icon to stop flashing.

Press to finish the procedure.

To activate or change to another profile from an external telephone

The external telephone must be a push button type provided with hash (#) and star (*) keys or a mobile telephone adapted for dial tone pulses (DTMF).



Call the DISA function at your office.

Dial tone.

*** 7 5 ***



Press.

Enter the authorization code and press.



#

Dial your own extension number and press.

Dial tone.

*** 1 0 ***



*** (1 - 5)**

Press.

Dial your own extension number, press and dial the search profile digit.



Press and end the call.

To cancel from an external telephone

The external telephone must be a push button type provided with hash (#) and star (*) keys or a mobile telephone adapted for dial tone pulses (DTMF).

⓪⓪⓪
⓪⓪⓪
⓪⓪⓪

Call the DISA function at your office.

Dial tone.

75

Press.

⓪⓪⓪ *
⓪⓪⓪
⓪⓪⓪

Enter the authorization code and press.


⓪⓪⓪ #
⓪⓪⓪
⓪⓪⓪

Dial your own extension number and press.

Dial tone.

#10*

Press.

⓪⓪⓪ # 
⓪⓪⓪
⓪⓪⓪
⓪⓪⓪

Dial your own extension number, press and replace handset.

To design and order your search profiles

The search profiles are installed or changed by the system administrator. In order to set up your profiles, copy the setting form, fill in your new or changed profiles and give it to your system administrator.

Note: *If a profile handling application is connected to your system, you can edit profiles via your Intranet. See separate instructions for the application.*

Important notes when designing your search profiles:

- Avoid ringing times longer than 45 seconds for your profiles.
Usually the caller hangs up after 3-6 ringing signals. If you need a longer ringing time, the maximum time is 60 sec.
- Consider the time you need to react and answer calls at each answering position in your profile.
You might need up to 15 seconds to react and answer a call on a desk or cordless phone and 20-25 seconds on a mobile phone.
- There must be an answering position at the end of every profile (voice mail or operator/secretary).
If not, calls might end up unanswered.
- Consider what should happen while you are busy on a telephone.
The available options are:
 - Diversion to voice mail
 - Diversion to the operator
- If an answering machine, a FAX or other answering service is used as an early answering position, it might interrupt the searching.
Disconnect the answering service, or design the ringing times so they do not affect the searching.
- If your system admits just one single personal profile, design the profile only with your 2-3 most frequently used positions.
If you add more numbers, there is a risk that the caller hangs up before a latter position is called.
- If your system admits 1-5 personal profiles, design the different profiles to fit your most frequently used positions.
Make sure you use as few answering positions as possible for each profile.

Profile examples:

- In office
- At home
- On travel
- Absent/not reachable

Example:

How to fill in your setting form for search profiles:

Profile 1

In office

Search order	Type of telephone or answering position*	Telephone number	Ring time (seconds)
1	Desk	1234	10
2	Cordless	5234	15
3	Voice Mail		

** Examples: Desk, Cordless, Mobile, External, Voice Mail, Operator, etc.*

Profile 2

At home

Search order	Type of telephone or answering position*	Telephone number	Ring time (seconds)
1	External	222222	20
2	Mobile	0706666666	25
3	Voice Mail		

Setting form for search profiles

Name:
Department:
Telephone No:
Account:

Profile 1

.....

Search order	Type of telephone or answering position*	Telephone number	Ring time (seconds)
1			
2			
3			
4			

* Examples: Desk, Cordless, Mobile, External, Voice Mail, Operator, etc.

Profile 2

.....

Search order	Type of telephone or answering position*	Telephone number	Ring time (seconds)
1			
2			
3			
4			

Profile 3

.....

Search order	Type of telephone or answering position*	Telephone number	Ring time (seconds)
1			
2			
3			
4			

Profile 4

.....

Search order	Type of telephone or answering position*	Telephone number	Ring time (seconds)
1			
2			
3			
4			

Profile 5

.....

Search order	Type of telephone or answering position*	Telephone number	Ring time (seconds)
1			
2			
3			
4			

Internal Messages

Manual Message Waiting (MMW)

If the extension called does not answer, you can turn on a message waiting indicator at that extension (if this function is allowed).

Regarding incoming messages, see section “Voice Mail” on page 42.



Order MMW to another extension

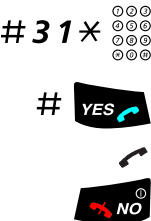
Press and dial the extension number.

Press.

Wait for the call icon to stop flashing.

Press to finish the procedure.

The message symbol lights up on the called extension.



Cancel MMW to another extension

Press and dial the extension number.

Press.

Wait for the call icon to stop flashing.

Press to finish the procedure.

Voice Mail

Integrated Voice Mail (optional)

This function allows you to leave a voice message for the caller when you are unable to answer calls, e.g. when out of the office, in a meeting, etc. The caller can then leave a message in your mailbox. When you are back in the office, you can enter your mailbox and listen to the messages received. You can choose to divert all incoming calls to your mailbox, or calls when there is no answer, or calls when your phone is busy.

When you enter your mailbox, you will hear recorded instructions on how to handle listening, recording, storing and deleting messages, and how to change your security code.

To activate and deactivate your mailbox

See section “[Call Forwarding](#)” on page 32 (function code 21). Use the number to the voice mail system as the “answering position number”.



To enter your mailbox when there is a new message

The message icon is flashing in the display. The voice mail ringer tone sounds when a new message is received.



Press to enter your mailbox.

Note: *It is possible to program a number or function on the R/Message key. If this is done, the default function to enter your mailbox directly will no longer work. If you want to use the Message Waiting function (default) again, the number to enter the mailbox has to be re-entered. See section "Programming a number or function on the R/Message key" on page 49.*



If you are asked to enter your security code:

Enter your security code.

To enter your mailbox in general

When you want to listen to saved messages, change your security code or change your greeting.



Enter the number to the voice mail system and press.

If you are asked to enter your security code:



Enter your security code.

Code at delivery = your extension number.

To enter someone else's mailbox



Enter the number to the voice mail system and press.

If you are asked to enter your security code:

#

Press.



Enter the mailbox number.

Normally the office extension of the other person.

If you are asked to enter a security code:



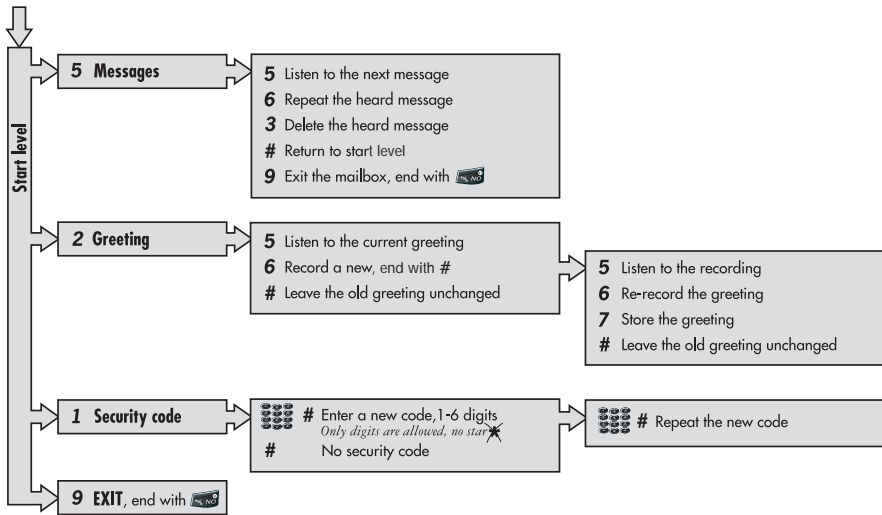
Enter the security code of the other person.

To handle the mailbox

Recorded information on the line tells you the number of new and stored messages. If you have too many messages stored, you will first be asked to delete saved messages.

Recorded instructions ask you to press different digits in order to listen to callers' messages, record your own greetings, change your password or exit your mailbox, etc.

The following diagram gives an overview of the mailbox system and the digits to be used.



Information

Absence Information (optional)

To be used during your absence to inform callers about the reason and time or date of your return. If you are authorised, you can also enter absence information on another extension from your own extension.

Order

Example: Back on September 15th (=0915).

***23* (0-9)**

Press and enter the absence code.

Note: The absence codes consist of one digit which depends on the system connected to the exchange. Contact your system administrator regarding your available absence codes.

*** 0915**

Press and enter the date (MMDD) or time (HHMM) of your return.

Note: If no return time or date is needed, this step can be skipped.



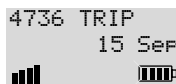
Press.

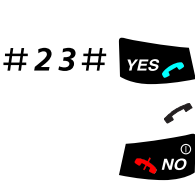


Wait for the call icon to stop flashing.

Press to finish the procedure.

Display example:





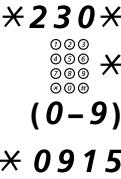
Cancel

Press.

Wait for the call icon to stop flashing.

Press to finish the procedure.
The programmed information is erased.

Order for another extension



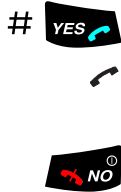
Press.

Dial the extension number and press.

Enter the absence code.

Press and enter the date (MMDD) or time (HHMM) of the other person's return.

Note: If no return time or date is needed, this step can be skipped.

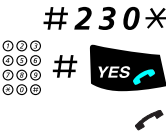


Press.

Wait for the call icon to stop flashing.
When the display on the other person's extension shows the reason, and if entered, time or date of return:

Press to finish the procedure.

Cancel for another extension



Press.

Dial the extension number and press.

Wait for the call icon to stop flashing.

Note: If the special dial tone is received, the authorization code for the other extension is required. Add the code and press # before pressing the NO key.



Press to finish the procedure.

Abbreviated Numbers

Common abbreviated numbers

By using abbreviated numbers, you can make calls simply by pressing a few keys. The common abbreviated numbers consist of 1–5 digits and are stored in the exchange (by the system administrator).



Dial the common abbreviated number.

Please refer to your telephone directory.

Press to make the call.

How to make a call via the Phone Book, see section “[Make a call](#)” on page 51. How to make calls via the Call List, see section “[Call List](#)” on page 22.

Quick Call-By-Name

(0 – 9)

Press the key with the initial letter of the name until a name is shown.

To move to the next initial letters:

Press the key once again quickly for the next letter or twice quickly for 3rd letter.



Scroll to find the name.

When the name has been found:



Press to call.



Press to end the call.

Example: To call Bob.

(Anita, Bill and Bob are programmed in the Phone Book).

2

Press and keep pressed.

Anita is shown in the display.

2

Press again, shortly.

Bill is shown in the display.



Press.

Bob is shown in the display.



Press to call Bob.

Programming a number or function on the R/Message key

You can program a number that you call very often or program a function (depending on system).

Route: *Settings » MessageKey » Mess.KeyNo*

Enter the number.



Press.

Note: *Only one number or function can be programmed. If you change it, the default function to enter your mailbox directly will not work any more. If you want to use the Message Waiting function (default) again, the number to enter the mailbox has to be re-entered.*

Phone Book

Your phone is equipped with a personal Phone Book where you can make up to 100 entries (names and numbers). You can consult and change the Phone Book via the **PhoneBook** menu option.

The Phone Book lists all names in alphabetical order. You can freely add names and numbers to the Phone Book.

Notes:

It is not possible to download a pre-programmed Phone Book to the DT290.

Phone Book numbers have a maximum of 24 digits.

Phone Book names have a maximum of 12 characters.

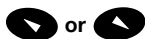
An indication that the Phone Book is full, means that you have to delete an entry before you can add a new one.

Use the Phone Book

Access the names and numbers of the Phone Book.



Access PhoneBook .



Use the arrow keys to select the required option.

Make a call

You can search for a name and number in the Phone Book. When you have accessed the Phone Book:

Route: *PhoneBook » Find&Call*



Select Find&Call and press.

Enter Name: Or Phone book is empty is displayed.

Press the key which has the first letter of the name you are looking for.

How to write text, see section [“Write text”](#) on page 56.



Press to confirm.

The first name beginning with that letter is displayed.



Scroll down until you find the name and press.

The number is dialed.

Note: *How to make calls via the Call List, see section [“Call List”](#) on page 22.*

Add a name or a number

You can use the **AddNew** option to enter names and numbers in the Phone Book. When you have accessed the Phone Book:

Route: *PhoneBook » Store » AddNew*

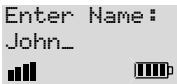
AddNew



Select.

Press.

Enter Name: or Phone book Full is displayed. In the latter case, you have to delete a Phone Book entry first before you can add a new one.



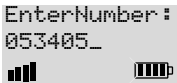
Enter a name.

How to write text, see section [“Write text”](#) on page 56.



Press to confirm.

EnterNumber: is displayed.



Enter the telephone number.



Press if you have to wait for a second dial tone.



Press to confirm.

The name and number are stored in the Phone Book.

Change a name or a number

With the **Edit** option, you can change the names and numbers in the Phone Book. When you have accessed the Phone Book:

Route: *PhoneBook » Find&Edit » Edit*

Edit



Select.

Press.

Enter **Name:** is displayed.

Enter the first letter of the name and press.

The first name beginning with that letter is displayed.

Scroll down until you find the name.

Press once to change a name.

Note: *Press the YES key twice to change a number.*

Correct the name or number.

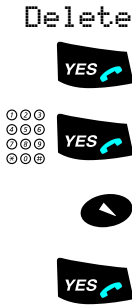
Press to confirm.

Note: *Press the YES key only once if you have changed a number.*

Delete a name or a number

You can also delete names and associated numbers from the Phone Book. When you have accessed the Phone Book:

Route: *PhoneBook » Find&Edit » Delete*



Select.

Press.

Enter Name: is displayed.

Enter the first letter of the name and press.

The first name beginning with that letter is displayed.

Scroll down until you find the name.

Press to delete the name and number.

The name and number are deleted from the Phone Book.

Delete all names and numbers

Route: *PhoneBook » DeleteAll*



Select.

Press.

Delete? appears.

Press to confirm.

All names and numbers are deleted from the Phone Book.

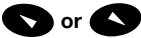
Add numbers from the Call List

Up to 20 numbers (dialled, answered and missed) can remain stored in the Call List of your phone. You can use the `AddCallList` option to add these numbers to the Phone Book.

Menu option `AddCallList` appears only if names or numbers are available for redial. When you have accessed the Phone Book:

Route: *PhoneBook » Store » AddCallList*

`AddCallList`



000
000
000
000
000



000
000
000
000
000



Select.

Press.

A list of numbers is displayed. If `Phone book Full` appears, you have to delete a Phone Book entry first before you can add a new one.

Scroll through the list of numbers until you have the number you want to store.

Press.

`Enter Name :` is displayed.

Enter a name.

Press.

`Edit Number :` is displayed. The number to be added is displayed.

Edit the number if necessary.

Press to confirm.

The name and number are stored in the Phone Book.

Write text

The characters that you can enter, are written above each key. Use the keypad to write text. The following explains how to write text when you add a new name in the Phone Book menu.

AddNew



Select.

Press.

The phone changes to text entry mode automatically.

Example (to write SMITH):

7 7 7 7

Press for S.

6

Press for M.

4 4 4

Press for I.

8

Press for T.

4 4

Press for H.



Press to confirm your edit and exit the menu.

Control keys

While entering a name or a number you can use the following keys for control and navigation:



Press to move left.

Note: Moves to the beginning of the text if held longer.



Press to move right.

Note: Moves to the end of the text if held longer.



Press to switch between upper and lower case.

Note: Pressing for more than one second will add a dial tone pause.

1

Press to enter a space.



Press to correct a wrong entry.

The character to the left of the cursor is cancelled.

Special characters

Use the keypad to enter letters and characters. Press a key once for the first letter or character, twice for the second, three times for the third, etc. The most common letters are printed above each key on the phone. All the available letters and characters are shown in the following table:

Phone key	Number of times to press the key												
	1	2	3	4	5	6	7	8	9	10	11	12	13
1	Space	-	?	!	,	.	:	"	'	()	1	
2	A	B	C	Ä	Å	Æ	À	Á	Â	Ã	Ç	2	Γ
3	D	E	F	È	É	Ê	Ë	3	Δ	Φ			
4	G	H	I	Ğ	ı	ì	í	î	ï	4			
5	J	K	L	5	Λ								
6	M	N	O	Ñ	Ö	Ø	Ò	Ó	Ô	Õ	Œ	6	
7	P	Q	R	S	ß	Ş	7	Π	Σ				
8	T	U	V	Ü	Ù	ú	û	8					
9	W	X	Y	Z	Ý	Ÿ	9						
0	0	+	&	@	/	\$	%	£	Θ	Ξ	Ψ	Ω	
#	#	*											

Note: Depending on the selected menu language, other characters might be available, which means that the character order differs from the table above.

Example special characters:

8

To enter Ü press 8 (four times).

1 time result T

2 times result U

3 times result V

4 times result Ü



Press to confirm your edit and exit the menu.

Group Facilities

Call Pick-up Group

People working in a team can have their telephones programmed by the system administrator to form Call Pick-up groups.

In a Call Pick-up Group, any member can answer any individual call to group members.



Press to answer.

Notes:

One Call Pick-up Group can serve as an alternative to another group. Calls to the alternative group can only be answered when there are no calls to your own group.

*Sweden and Finland press * 0 # YES.*

Common Bell Group

Calls are signalled on a common bell.




Press to answer.

Note: *Sweden and Finland press * 0 # YES.*

Group Hunting

You can temporarily leave a group of extensions that is called via a common number:

To leave the group

✱ 2 1 ✱ 

Press and dial your own extension number.

Note: U.K. press ✱ 2 ✱ and number.




Press.

Wait for the call icon to stop flashing.



Press to finish the procedure.

To re-enter the group

2 1 # 

Press.

Note: U.K. press # 2 # YES.



Wait for the call icon to stop flashing.



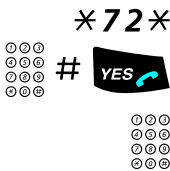
Press to finish the procedure.

Authority

Authorization code, common (optional)

If you are assigned to use a common authorization code (1 to 7 digits), you can temporarily change any telephone used within the exchange to the authority level connected to this code. You can use the code for one call only or you can open the telephone to some calls and lock it when leaving the telephone.

To use for a single call

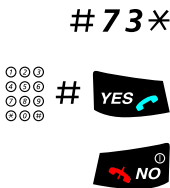


Press.

Enter authorization code and press.
Wait for verification tone.

Dial the digit or digits to get a line and the external number.

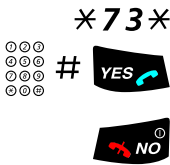
Temporarily unlocking an extension for a number of calls



Press.

Enter authorization code and press.
Wait for verification tone.

Press to finish the procedure.



To lock an extension

Press.

Enter authorization code and press.

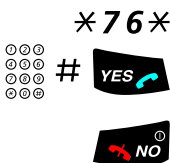
Wait for verification tone.

Press to finish the procedure.

Authorization code, individual (optional)

If you are assigned to an individual authorization code (1 to 7 digits, assigned to your own extension) you can lock your own extension at a common authority level, e.g. when out of the office. You can also temporarily change any other used telephone within the exchange to the same authority level as you have on your own phone.

The individual code can be changed from your own extension.



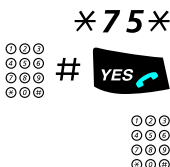
To lock your phone

Press.

Enter authorization code and press.

Wait for verification tone.

Press to finish the procedure.



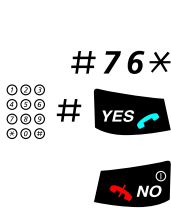
To make calls with your authority level when your phone is locked

Press.

Enter authorization code and press.

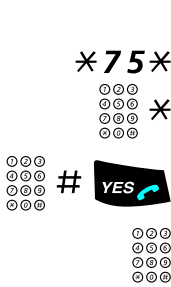
Wait for verification tone.

Dial the digit or digits to get a line and the external number.



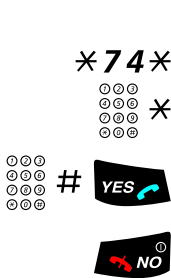
To unlock your phone

Press.
Enter authorization code and press.
Wait for verification tone.
Press to finish the procedure.



To assign your own authority level to another telephone

Press.
Enter authorization code and press.
Dial your own extension number and press.
Wait for verification tone.
Dial the digit or digits to get a line and the external number.



To change your individual authority code

Press.
Enter old authorization code and press.
Dial new authorization code and press.
Wait for verification tone.
Press to finish the procedure.

Other Useful Facilities

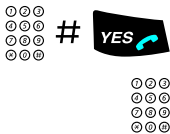
Account Code (optional)

This function is used to charge a call to an account number or to prevent unauthorised calls from your phone. The account code can have 1 to 15 digits.

*** 6 1 ***

Press.

Note: Norway and Finland press *** 7 1 ***.



Enter account code and press.

Dial tone.

Dial the digit or digits to get a line and the external number.

Ongoing external call

When used to charge a call it is also possible to connect an ongoing external call to an account code.

During the call:



Press to put the ongoing call on hold.

Dial tone.

*** 6 1 ***

Press.

Note: Norway and Finland press *** 7 1 ***.



Enter account code and press.

Dial tone.



Press to resume the call that was put on hold.

Night Service

When the exchange is in night service mode, all your incoming calls to the operator are transferred to a selected extension or group of extensions. The exchange is equipped with different night service modes:

Common Night Service

All incoming calls to the operator are transferred to one specific extension. Answer the call in the normal way.

Individual Night Service

Selected external calls to the operator are transferred to one specific extension. Answer the call in the normal way.

Universal Night Service

All incoming calls to the operator are transferred to a universal signalling device, e.g. the common bell. Answer the call as described in section “[Common Bell Group](#)” on page 58.

Alarm extension

An extension can be programmed by the system administrator as an alarm extension. A call to an alarm extension obtains automatic intrusion if the extension is busy. Up to seven calling parties may be connected at the same time.

Emergency mode

In the event of an emergency, the operator can switch the exchange into emergency mode, during which only pre-programmed extensions are permitted to make calls.

Malicious Call Tracing

If you are disturbed by malicious or bothersome external incoming calls, you can request number tracing from the network provider.

You can invoke tracing during or after an ongoing conversation. The external line can be held for a limited period of time.

Order

During an ongoing conversation:



Press.

Dial tone.

***39#**

Press.

The system acknowledges with different tones whether the tracing request was accepted or rejected.

Direct Inward System Access, DISA (optional)

If you are assigned to use this function and you are working externally, you can call your office and get access to an external line in order to make business calls. The business call will be charged your office extension number or an account number. You will just be charged for the call to the office.

The external telephone must be a push button type provided with hash (#) and star (*) keys or a mobile phone adapted for dial tone pulses (DTMF). After a completed DISA call you must hang up before a new DISA call can be made.

Depending on the type of authorization code and if an account code is used, different procedures must be used:

With common authorization code

⓪⓪⓪
⓪⓪⓪
⓪⓪⓪
⓪⓪⓪

Call the DISA function at your office.
Dial tone.

72

Press.

⓪⓪⓪
⓪⓪⓪
⓪⓪⓪
⓪⓪⓪ #

Enter the authorization code and press.
Dial tone.

⓪⓪⓪
⓪⓪⓪
⓪⓪⓪
⓪⓪⓪

Dial the external number.

With individual authorization code

⓪⓪⓪
⓪⓪⓪
⓪⓪⓪
⓪⓪⓪

Call the DISA function at your office.
Dial tone.

75

Press.

⓪⓪⓪
⓪⓪⓪
⓪⓪⓪
⓪⓪⓪ *

Enter the authorization code and press.

⓪⓪⓪
⓪⓪⓪
⓪⓪⓪
⓪⓪⓪ #

Dial your own extension number and press.
Dial tone.

⓪⓪⓪
⓪⓪⓪
⓪⓪⓪
⓪⓪⓪

Dial the external number.

Do Not Disturb

Switch off your phone. The caller will receive a special tone indicating that you are not available.

If you need to make calls, you can switch off the ringing signal. Press the C/MUTE key until the ringer off icon is shown in the display. Press the C/MUTE key again to switch on the ringing signal.

General Cancellation

The following features can be simultaneously cancelled:

- Call-back (all Call-backs are cancelled).
- Internal and External Follow-me.
- Manual Message Waiting/Message Diversion.
- Do Not Disturb.

0 0 1



Order

Press.

Wait for the call icon to stop flashing.

Press to finish the procedure.

Settings and Adjustments

This section describes how to set and adjust a personal volume, how to change indication of incoming calls, how to adjust the display, how to change the language and how to revert all DT290 settings to default.

Volume control

You can adjust the volume in the earpiece, or the loudspeaker for hands-free speaking, and the volume of the ringer. Use the volume keys to adjust the volume, see section “Description” on page 8 for the location of volume controls. To adjust the volume of the ringer, enter the **Settings** menu.

To turn the microphone, ring sound and warning sound on or off during a call, see section “During Calls” on page 24.

Adjust speaker volume for hands-free speaking



Press to adjust the volume during a call.

If you are not making a call you can still adjust the volume:



Press.
You hear the dial tone.



Press.



Keep listening and press.
You hear the dial tone becoming louder or quieter.



Press to cancel the adjustment procedure.



Adjust earpiece volume

Press to adjust the volume during a call.

If you are not making a call you can still adjust the volume:



Press.

You hear the dial tone.



Keep listening and press.

You hear the dial tone becoming louder or quieter. If the earpiece is at maximum or minimum volume, you hear a warning tone.



Press to cancel the adjustment procedure.

Adjust ringer volume

Route: *Settings » Alerts » RingVolume*

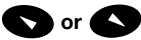
RingVolume

Select.



Press.

A volume level bar is displayed.



Press to turn the volume up or down.

If you set the volume to its lowest level (ring sound permanently off), the ring off icon appears.

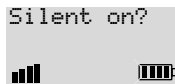


Press to confirm.

To turn off the ring sound permanently



Press when the phone is idle.



Press.

The ring off icon appears.

Note: If the ring sound is permanently off and you have set the Vibrating Alert to OnIfSilent, the vibrator turns on when the phone is ringing, see section “[Vibrating Alert](#)” on page 71.



To turn the ring sound on again:

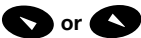
Press shortly.
The ring off icon disappears.

Ringer tones or melodies

You can change the ringer tone for each call type to a different sound or a preprogrammed melody. For each ring signal type, you can choose from four ringer tones or six melodies.

To set the sound for a ringing type

Route: *Settings » Alerts » RingType » Internal/External/ CallBack/Message*

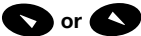


or



Select the ring signal type: Internal, External, CallBack, or Message.

Press.
The current setting is displayed and played.



or



Select sound Low, Medium, High, Mixed **or** Melody (1 - 6).
The selected sound is played. The menu options Low, Medium, High and Mixed refer to the pitch of the ringing tone.

Press to confirm.
The table below lists the names of the melodies.

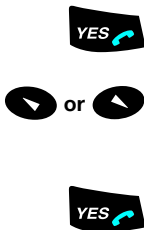
Melody	Name
1	Ericsson soundmark
2	Menuet Boccherini
3	The Black Bear
4	J.S. Bach - Partita no 3 for violin
5	J.S. Bach - Badinerie - BWV 1067 Suite no 2
6	Rimsky Korsakoff - Flight of the Bumble Bee

Discreet Ringing

In the discreet ringing mode, your phone starts ringing at the lowest audible volume level. It then gets louder and louder.

Route: *Settings » Alerts » DiscreetRng*

DiscreetRng



Select.

Press.

The current setting is displayed.

Select one of the following options:

- On to activate Discreet Ringing.
- Off for no Discreet Ringing.

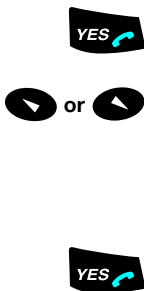
Press to confirm.

Vibrating Alert

If you do not want to be disturbed by the ringing of your phone but still want to get the call indication, or if you are in a noisy environment, you can activate the Vibrating Alert.

Route: *Settings » Alerts » Vibrator*

Vibrator



Select.

Press.

The current setting is displayed.

Select one of the following options:

- On for Vibrating Alert.
- Off for no Vibrating Alert.
- OnIfSilent for Vibrating Alert when the ringer is permanently off. See section “[Adjust ringer volume](#)” on page 69.

Press to confirm.

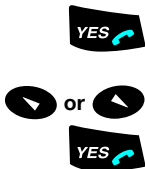
Key Lock

If you carry the phone in your pocket, you might accidentally press the keys and make a call. To prevent this, you can have them blocked by using the `AutoKeyLock` option.

To enable or disable key locking

Route: `Settings » AutoKeyLock`

`AutoKeyLock`



Select.

Press.

The current setting is displayed.

Select the setting you want.

Press to confirm.

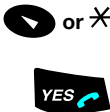
Note: After enabling the Key Lock function, do not press a key for 30 seconds. If the enabling time has expired, the keys are blocked and a key symbol is displayed.

During Key Lock the keys are blocked, so you cannot use your phone. If a key is pressed the message `Press * to unlock keys` is displayed.



If you have locked the keys and you receive a call, you can answer the call as usual without switching Key Lock off. When the call is ended the keys are locked again.

To unblock the keys temporarily



Press.

`Unlock keypad?` is displayed.

Press to switch off the Key Lock.

The key symbol disappears; the keys are enabled again.

Phone Lock

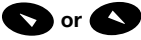
You can protect your phone against unauthorised use or against adding or deleting telephone network subscriptions. Both security features are off by default. See also section “PIN code” on page 5.

Securing against unauthorised use

You can set the phone so that the PIN code must be entered after switching on.

Route: *Settings » PhoneLock » PowerOn*

PowerOn



Select.

Press.

Enter PIN: is displayed.

Enter the PIN code (default 0000) and press.

The current setting is displayed.

Select one of the following options:

- LockOn to enable protection.
- LockOff to disable protection.

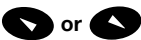
Press to confirm.

Securing against adding or deleting subscriptions

You can set the phone so that the PIN code must be entered when adding or deleting telephone network subscriptions.

Route: *Settings » PhoneLock » Subscript*

Subscript



Select.

Press.

Enter PIN: is displayed.

Enter the PIN code (default 0000) and press.

The current setting is displayed.

Select one of the following options:

- On to enable protection.
- Off to disable protection.

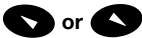
Press to confirm.

Key Sound

Key Click is the sound you hear each time you press a key. This feature can be enabled and disabled.

Route: *Settings » Alerts » KeySound*

KeySound



Select.

Press.

The current setting is displayed.

Select one of the following options:

- On to have a Key Sound with each key press.
- Off for no Key Sound.

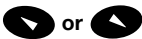
Press to confirm.

Display light

Your phone has a display which is illuminated when a key is pressed. The illumination automatically goes off after a while, unless you press a key.

Route: *Settings » Display » Light*

Light



Select.

Press.

The current setting is displayed.

Select one of the following options:

- Automatic to activate illumination of the display when a key is pressed.
- Off for no illumination of the display.

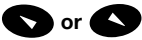
Press to confirm.

Display contrast

You can adjust the contrast of the display to one of eight levels to make it easier to read.

Route: *Settings » Display » Contrast*

Contrast



Select.

Press.

The contrast level bar appears.

Adjust the contrast.

You hear an error beep when either limit is reached.

Press to confirm.

Alarm

The phone can be set to remind you with an alarm at any time within the next 24 hours.

Note: *This function requires an exchange that supports date and time.*

To set an alarm

Route: *Settings » Alarm » SetAlarm*

SetAlarm



Select.

Press.

Enter alarm time and press to confirm.
(00-23) hour + (00-59) minute.

Press to finish the procedure.
When the time is reached your phone rings with recall signal.

If you want to delete the set alarm before the reached alarm time:

Route: *Settings » Alarm » AlarmOff*

AlarmOff



Select.

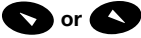
Press.
The set alarm is deleted.

Press to finish the procedure.

Language

The default menu language is English. To select another language, use the **Language** option. Please note that the menu options stay in English until you confirm your language choice.

Route: *Settings » Language*



Press to enter the main menu.

Option **PhoneBook** is displayed.

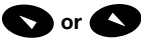


Scroll to Settings and press.



Scroll to Language and press.

The current language is displayed.



Scroll through the list of languages until you find the language you want.



Press to confirm your choice.

The language has now been changed.

You can also use the following procedure:



Press for at least seven seconds.

The language menu appears.



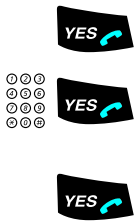
Select the language of your choice from the list and press.

Reset the DT290 settings

You can reset all settings on the DT290 simultaneously. The Call List and the last call information are also cleared. The Phone Book, the PIN code, the subscriptions and the total calls information, however, are not cleared.

Route: *Settings » MasterReset*

MasterReset



Select.

Press.

Enter Pin: or Reset All Settings? is displayed.

If requested enter your PIN code for the phone and press.

See section “PIN code” on page 5. Reset All Settings? is displayed.

Press to confirm.

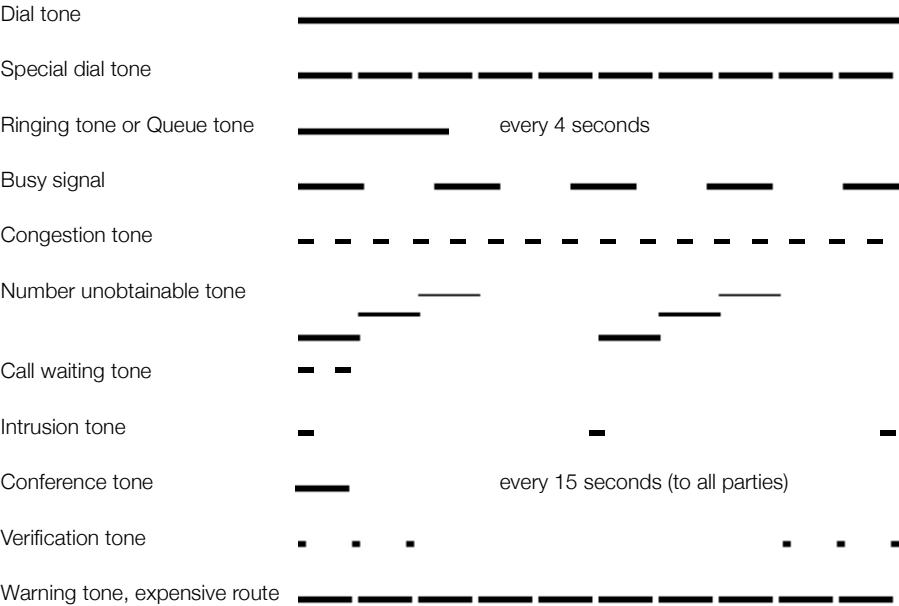
All DT290 settings revert to default.

Audible Signals

The following different tones and signals are sent from the exchange to your phone.

Tone characteristics

The tones shown in this section are the most used tones worldwide. Many markets use a differing tone for one or more situations.



Ringling signals

Three different ringing signals inform you about the type of the incoming call. The signals shown in this section are the most used signals worldwide. Many markets use a differing signal for one or more situations. If you get a signal that is not described or you cannot identify, ask your system administrator.

Internal ringing signal	
External ringing signal	
Recall signal (automatic call-back reminder)	

Note: *If you use a melody for the external or recall ringing signal, the melody will be repeated in the same way as for internal calls.*

Display Information

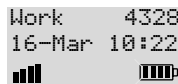
The display gives you feedback information such as connection mode and connected telephone numbers.

The following display examples show the different modes of your phone.

Idle phone

Depending on the state and setting of your phone, different information can be shown.

Normal:

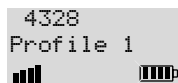


A screenshot of a phone's idle display. It shows the network name 'Work' on the top left, the extension number '4328' on the top right, the date and time '16-Mar 10:22' in the middle, and signal strength bars on the bottom left and battery status on the bottom right.

“Work” is the programmed name of your network and can be renamed to something more suitable, i.e. your first name, company name, etc. To rename your network, contact your system administrator. To the right of the display is your own extension number.

Note: *Date and time is only available for newer versions of the exchange.*

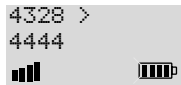
Personal number profile activated:



A screenshot of a phone's idle display when a personal number profile is activated. It shows the extension number '4328' on the top line, 'Profile 1' on the middle line, and signal strength bars on the bottom left and battery status on the bottom right.

The middle line shows the activated profile.

Follow-me activated:

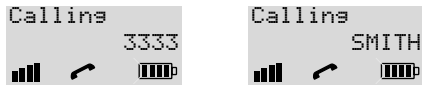


The display shows your own extension number 4328 diverted to extension number 4444.

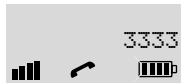
Outgoing call

Normal outgoing call:

When you make an outgoing call both the connection mode and the dialled number or name are displayed:

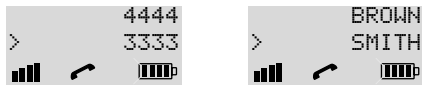


When the call is answered:



Diverted call:

If the dialled number is diverted, the diversion information is shown. For example, the display shows the dialled number 3333 (Smith) diverted to 4444 (Brown):



When the call is answered, only the number of the answering position is displayed:



Incoming call

Normal incoming call:

If available, the number or the name of the caller is displayed. The examples show an incoming call:



When you have answered the call, the caller's number is moved to the right of the display.

Diverted call:

A diversion indicator in front of the number or the name tells you that the call is diverted to your phone. For example, the display shows that number 3333 (Smith) was dialed, but the call was diverted to you:



When you have answered the call, the display shows only the caller's number.

A personal number profile is activated:

The first row shows the number or name of the caller. The second row shows the diversion indicator in front of your number or name:



When you have answered the call, the display shows only the caller's number.

Installation

Check for completeness

Make sure that all the parts are present. If anything is missing, please contact your system administrator or supplier.

The set contains:

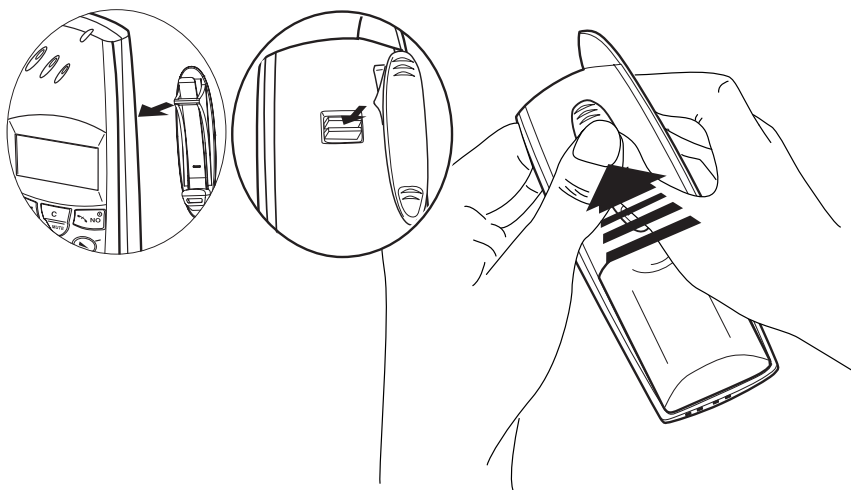
- 1 Cordless phone**
- 2 Battery**
- 3 Clip**
- 4 Assembly card**

Note: *It is important to make a note of the IPEI code. The IPEI code may be needed for unblocking the Cordless phone if an incorrect PIN code has been entered three times. See section "[IPEI code](#)" on page 6 for further details.*

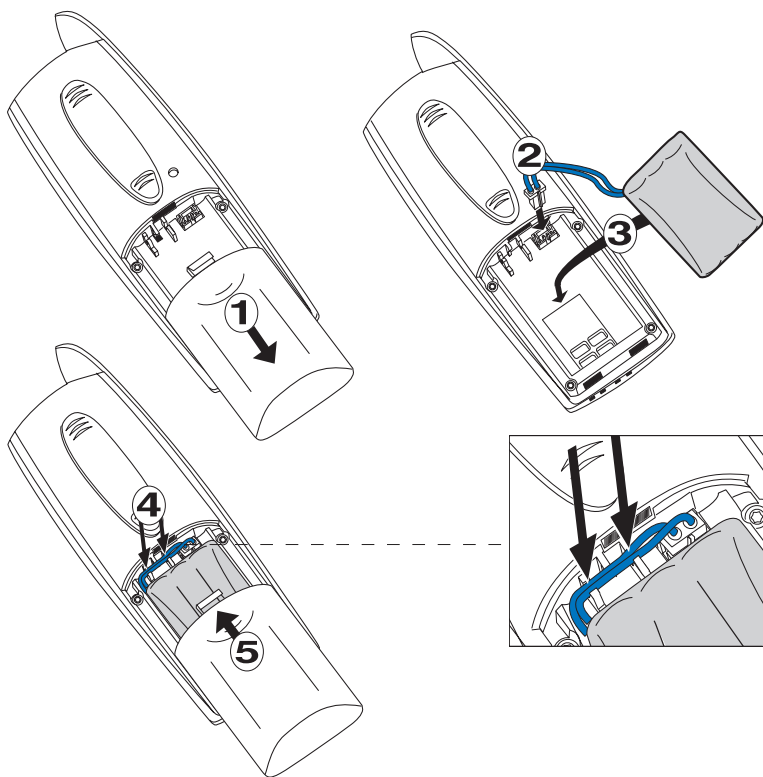
Preparing for use

When using the Cordless phone for the first time, follow the steps below to prepare the Cordless phone.

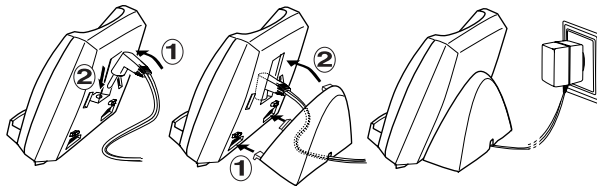
Attach the clip to the back as shown in the figure below.
Do not press on the display.



Attach the battery to the phone as shown in the figure below.
 Make sure that the battery wires are put through the notches as shown.



Connect the adapter to the charger and connect it to the mains outlet as shown in the figure below.



Notes:

Place the DT290 in the charger and charge it for at least 4 hours before using it the first time.

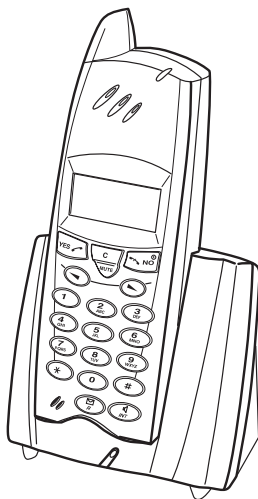
Make sure the local mains voltage corresponds to the voltage on the charger.

Only use the charger that comes with the Cordless phone.

Do not connect the phone to the charger without a battery.

Place the Cordless phone in the charger to charge the battery.

Complete charging before you subscribe or use the Cordless phone. The green light of the charger is turned off when charging is completed. For more information about charging the battery, see section “[Battery](#)” on page 88.



Battery

The Cordless phone is powered by a rechargeable battery. You can fully charge an empty battery by placing the Cordless phone in the charger for 4 hours. A fully charged battery gives you up to 17 hours calling time or up to 140 hours standby time.

Note: *The calling time and standby time is shortened if the hands-free speaking function is used a lot.*

The Cordless phone has a battery meter, which indicates the power remaining in the battery.

Note: *The Cordless phone is powered by a Nickel Metal Hydride (NiMH) battery. It can be recharged at any time. To keep the battery fully charged, you can put or leave the Cordless phone in the charger without any problem.*

Reading the battery meter

When the battery is fully charged, the battery meter on the Cordless phone display consists of four blocks. The number of blocks decreases as the battery discharges. If the battery is almost empty, the battery meter and the red light on the Cordless phone flash. An alarm sounds if there is less than 15 minutes calling time remaining in the battery.

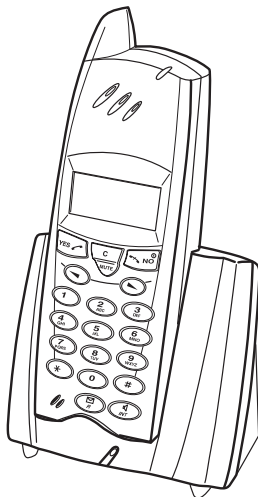
Battery performance

The table below indicates the performance:

	<i>Talk time (hours)</i>	<i>Standby time (hours)</i>	<i>Charge time (minutes)</i>
High capacity battery:	17	140	240

Charging the battery

Place the Cordless phone in the charger as shown in the figure below.



The battery is being charged when the lower green LED on the charger is on (and the battery meter on the display flashes). If the battery is completely empty it can take a few minutes before the lower green LED on the charger is lit.

When the battery is 90% charged, the LED starts flashing (3 second intervals) and when the battery is fully charged, trickle charging starts (LED lights up for 1 second every 30 seconds) and the battery is ready.

Notes:

Place the DT290 in the charger and charge it for at least 4 hours before using it the first time.

Make sure the local mains voltage corresponds to the voltage on the charger.

Only use the charger that is delivered with the Cordless phone.

Do not connect the phone to the charger without a battery.

Changing the battery

Rechargeable batteries have a limited lifespan. If the standby time for the Cordless phone becomes too low, you should replace the battery. Please contact your system administrator or supplier for more information.

Note: *Only use the specified batteries (NiMH pack 600 mAh, 3.6 V).*

The battery does not contain cadmium and is therefore more environmentally-friendly than other rechargeable batteries. However, all batteries should be treated as chemical waste.

Clip

The Cordless phone has a clip to attach the phone to your clothes.

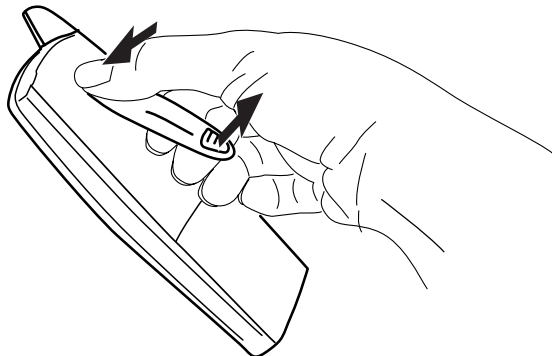
To attach the clip to the Cordless phone

See section “[Preparing for use](#)” on page 85 for specific instructions.

To remove the clip from the Cordless phone

Note: *To minimize wear and tear, we recommend that you do not remove the clip from the Cordless phone too often.*

Remove the clip from the back of the phone as shown in the figure below.



Reference

This section describes the terminology used on the display, the phone communication signals, guidelines, technical specifications, spare parts and accessories.

Terminology

The list below explains the terms which may appear on the display.

Terminology used on display

<i>Term</i>	<i>Meaning</i>
AC	Authentication code (=BasePIN)
BasePIN	= authentication code
DTMF	Dual Tone Multi Frequency or touch tone, for dialling
IPEI	International Portable part Equipment Identity, unique identity assigned to your Cordless phone by the manufacturer
PARK	Portable Access Rights Key, unique identity assigned to your network
PIN	Personal Identification Number for security

Phone signals

The Cordless phone signal certain events audibly and visually as described below.

<i>Signal</i>	<i>Meaning</i>
Red warning light	Incoming call Message waiting Battery almost empty Cordless phone out of range or not connected

The Cordless phone also generates audible ring signals, alarm signals and warning tones, and key clicks.

<i>Sound</i>	<i>Meaning</i>
Ring signal	Incoming call
Alarm signal	4 short beeps every 30 seconds: battery almost empty 4 short beeps every 2 minutes: Cordless phone out of range or not connected
Key click	You hear this each time you press a key (when selected).
Warning tone	You have pressed a key which has no function.

Maintenance

Consider these suggestions and guidelines to keep your phone in good shape and working properly.

Note: *The phone does not contain user-serviceable parts. If you phone requires service, you should return it to the supplier or retailer where you bought it.*

Intrinsic safety

Do not use the phone and charger in conditions where there is a danger of electrically ignited explosions.

Battery disposal

Defective batteries must be returned to a collection point for chemical waste disposal.

Treatment

Do not expose the phone and charger to long periods of direct sunlight. Keep the phone and charger away from excessive heat and moisture.

Cleaning

Clean your phone with a soft cloth moistened with water only. The use of soap and other cleaning products can discolour and damage the phone. Clean the battery contacts using ethanol or isopropyl alcohol.

Technical specifications

DECT GAP/CAP

The Cordless phone has the unique advantages of DECT GAP/CAP (Digital Enhanced Cordless Telecommunications Generic Access Profile/CTM Access Profile). This means that no one can eavesdrop on your calls and that the quality of speech is as good as that of conventional fixed telephones. DECT GAP/CAP enables interoperability with other manufacturers' products.

Cordless phone

Power supply

Battery	NiMH pack 600 mAh, 3.6 V
---------	--------------------------

Standards and regulations

CE regulations	73/23/EEC, 89/336/EEC, 1999/5/EC
CE marking	CE 0344
DECT standards	EN 301 406 (replaced TBR6), CTR10, CTR22
Safety standards	IEC60950:1991,A1, A2, A3 & A4 incl. EN60950 deviations
EMC standards	EN 301 486-6 (replacing ETS 300 329), EN 55022 class B

Maximum environmental values during use

Temperature	0 to +40 °C
Relative air humidity	20% to 75% non-condensing

Dimensions and weight

L x W x H	142 x 54 x 25 mm (excluding antenna and clip)
Weight	139 g (including batteries and clip)

Receiver radio specifications

Receiver sensitivity	Typical -94 dBm with a B.E.R. = 10^{-3} at the radio interface
Unwanted emissions	As per CTR6

Performance

Battery	NiMH, 500 to 1000 charge cycles
Standby time	up to 140 hours
Call time	up to 17 hours
Charge time	4 hours maximum

Volume

Ring signal	Seven step adjustable volume from off to 86 dB (A) at 30 cm
Earpiece	Nine step adjustable

Ringing signals (defaults)

External call	0.4 s on, 0.2 s off, 0.4 s on, 5 s off
Internal call	1 s on, 5 s off
Call-back	0.32 s on, 0.2 s off

Phone Book

Maximum name length	12 characters
Maximum number length	24 digits
Entries	100

External interfaces

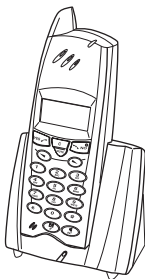
Radio connection	DECT GAP/CAP, 1880-1900 MHz, up to 250 mW radiated power during 1 of the 24 time slots
User interface	Display with two lines of 12 alphanumeric characters and one line of 7 icons, keys with text, volume keys on the side
Accessory connector	For battery charging

Features

Menu controlled, predial, difference between internal and external calls, Phone Book, caller identification (if provided), Call List (20 numbers), illuminated display, temporarily transmit long DTMF tones, security with PIN code, keys can be locked automatically, access to up to 8 DECT GAP/CAP telephone systems, key click on/off, battery meter, call duration indication, hands-free speaking, vibrating alert, direct access to the message system (Message key)

Spare parts and accessories

Use only approved spare parts and accessories. The operation of non-approved parts cannot be guaranteed and may even cause damage. Contact your supplier for more information.



- Charger with desk stand
- Power adaptor for charger
- Clip for Cordless phone
- Nickel metal hydride battery for Cordless phone
- Battery door for Cordless phone
- Security clip for Cordless phone
- Carrying case for Cordless phone

Troubleshooting

This section contains information on how to solve common operational problems. Check if your problem is listed below. If it is not or if the suggested action does not solve your problem, contact your system administrator.

Fault	Probable cause	Action or comment
No display	Battery low or phone defective	Charge battery
Connect battery	Battery does not fit properly or is defective	Check battery or contact system administrator
No ringing	Ringer off icon on or phone defective	Off icon on = Adjust volume
Signal strength icon off	Out of coverage area, system or phone defective	Enter coverage area or contact system administrator
Battery icon flashes slowly	Battery low	Charge battery
Battery icon on	Charging complete, charger still connected	Disconnect the charger
4 short beeps every 30 seconds	Battery low	Charge battery
4 short beeps every 2 minutes	Out of coverage area or not connected	Enter coverage area or contact system administrator
Phone Book Empty	No names or numbers stored in the Phone Book	Add names or numbers
Phone Book Full	Phone Book full, you cannot add names or numbers	Delete a name or number
Subscr. List Full	Already eight subscriptions	Delete a subscription

Fault	Probable cause	Action or comment
Subscription Failed	Entered AC number does not match network AC or network cannot add another subscription	Try to subscribe again
Enter XXX (where XXX=IPEI, PIN or AC)	IPEI code, PIN code or AC	Enter required IPEI, PIN or AC number missing
No Access	Network in range, but no access rights	Select another network or resubscribe
No network	Cannot connect to selected network or out of range	Select another network, subscribe, get back within range or contact system administrator
PIN Blocked Unblock?	Phone blocked, wrong PIN code entered three times	See section “ IPEI code ” on page 6

Contact your system administrator if one of these error messages is displayed:

- System List Error
- Buzzer Data Error
- User Data Error
- User Phone Book Error
- Error xx (where xx = any number)

Glossary

Abbreviated number

Short number. Initiating a call to a pre-programmed number by dialling a code or pressing a key. See section “[Abbreviated Numbers](#)” on page 47.

DECT/GAP

Digital Enhanced CordlessTelecommunication/ Generic Access Profile. This means that no one can eavesdrop on your calls and that the quality of speech is as good as that of conventional fixed telephones. DECT/GAP enables interoperability with other manufacturers’ products.

Extension number

All telephones connected to the PBX have a unique internal number (up to 8 digits). If your telephone is equipped with a display, you can see your number.

ISDN

Integrated Services Digital Network. Provides your system with supplementary services from the public net.

PBX

Private Branch Exchange. Your telephone switching system (e.g. MD110 Communication System).

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