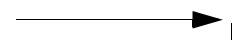s

Profiset 70isdn

Operating Instructions

Please read the safety precautions outlined in these operating instructions before putting the telephone into service (page VII).

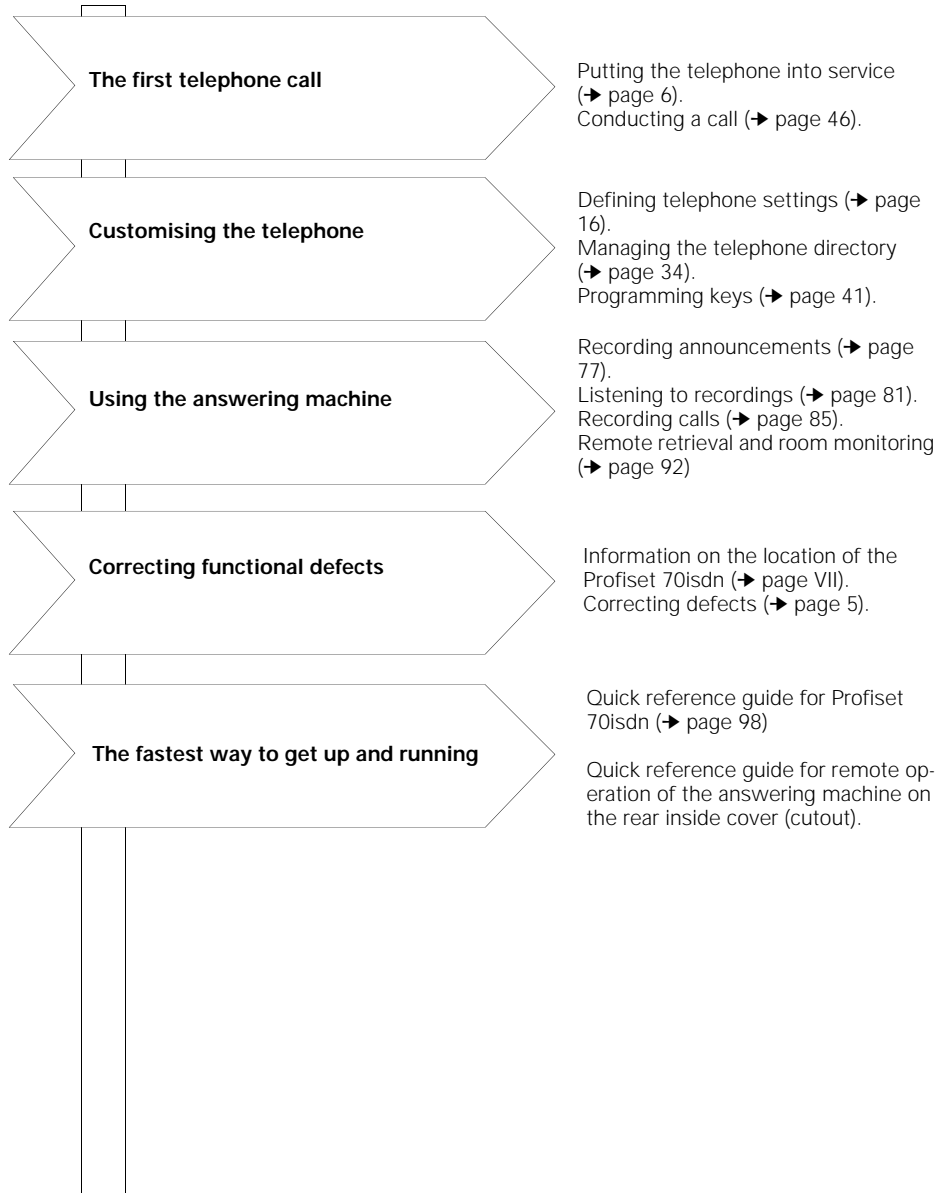ACHTUNG! Schnittkante ggf. auf Titelseite nach außen versetzen wg. Falz-Ausklappseite
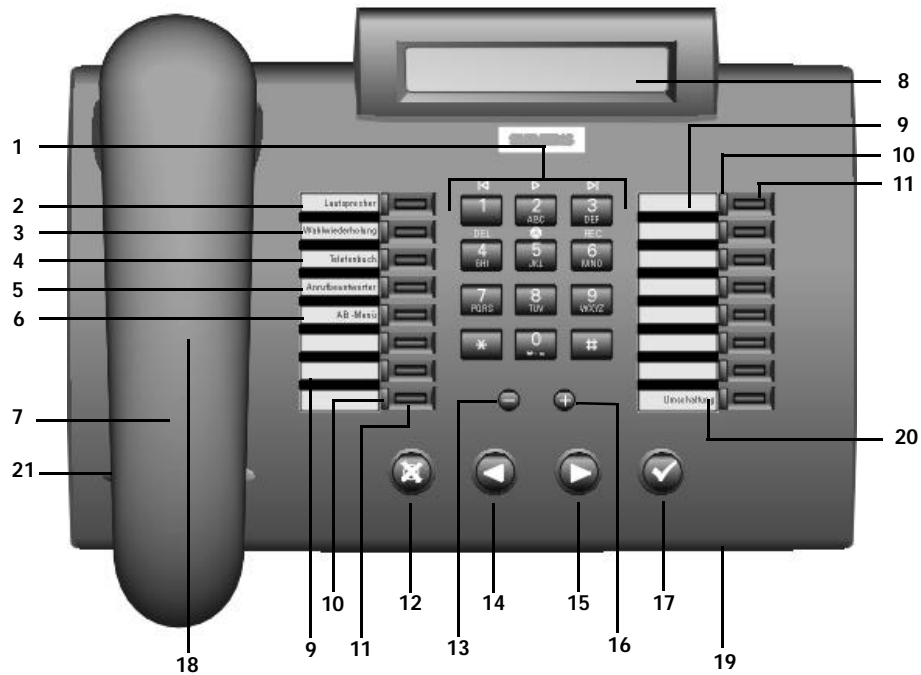
Profiset 70isdn

Profiset 70isdn

Your guide to this manual

The first telephone call

Putting the telephone into service (➜ page 6).
Conducting a call (➜ page 46).

Customising the telephone

Defining telephone settings (➜ page 16).
Managing the telephone directory (➜ page 34).
Programming keys (➜ page 41).

Using the answering machine

Recording announcements (➜ page 77).
Listening to recordings (➜ page 81).
Recording calls (➜ page 85).
Remote retrieval and room monitoring (➜ page 92)

Correcting functional defects

Information on the location of the Profiset 70isdn (➜ page VII).
Correcting defects (➜ page 5).

The fastest way to get up and running

Quick reference guide for Profiset 70isdn (➜ page 98)

Quick reference guide for remote operation of the answering machine on the rear inside cover (cutout).

Profiset 70isdn

Overview: Profiset 70isdn

1	Keypad
2	Preprogrammed "Loudspeaker" key
3	Preprogrammed "Number redial" key
4	Preprogrammed "Telephone directory" key
5	Preprogrammed "Answering machine" key
6	Preprogrammed "AM menu" key
7	Handset
8	Display
9	Labelling card
10	LED (light-emitting diode)
11	Freely programmable keys
12	Cancel key
13	Volume/tone/display contrast control key
14	Previous key
15	Next key
16	Volume/tone/display contrast control key
17	OK key
18	Loudspeaker
19	Handsfree microphone
20	Preprogrammed "Shift" key
21	Fire/emergency label

Profiset 70isdn

Overview: Keys

Next key
Activates a menu and scrolls forward through the menus.

Previous key
Activates a menu and scrolls backward through the menus.

When entering numbers or letters, this key deletes the previous character.

OK key
Selects the displayed menu item.

Answers "yes" to the queries displayed,
saves your settings or input.

Cancel key
Cancels the menu selection.

Answers "no" to the queries displayed.

Cancels settings or input.

This key has no effect on telephone functions (e.g. connection setup)!

Volume/tone/display contrast control key
With incoming calls, this key lowers the signal volume.

During a call via the handset, it lowers the handset volume (the setting applies to the current call).

With loudspeaker mode, it lowers the loudspeaker volume (the setting applies to the current call).

When the telephone is idle, it sets the display contrast.

Volume/tone/display contrast control key
With incoming calls, this key increases the signal volume.

During a call via the handset, it increases the handset volume (the setting applies to the current call).

With loudspeaker mode, it increases the loudspeaker volume (the setting applies to the current call).

When the telephone is idle, it sets the display contrast.

Profiset 70isdn

Overview: Answering machine keys

These keys are available after you activate the answering machine menu by pressing AM menu ▮▬.

K   stored on key   **1**   **Back key**

When playing back messages, this key rewinds to the to the start of the message or to the previous message.

With record/pause, it rewinds to the start of the recording.

‖▶   stored on key   **2 ABC**   **Playback/pause key**

Plays back recorded messages.

During playback, this key interrupts and resumes playback.

Plays back announcements and info texts.

⇥   stored on key   **3 DEF**   **Forward key**

When playing back messages, this key jumps to the start of the next message.

X   stored on key   **4 GHI**   **Clear key**

When playing back messages, this key clears the current message and jumps to the start of the next message.

☐   stored on key   **5 JKL**   **Stop key**

When playing back messages, this key cancels playback.

When recording announcements or info texts, it ends recording and cancels unsuccessful recording.

‖●   stored on key   **6 MNO**   **Record/pause key**

Records announcements, info texts, or closing announcements.

During recording, it interrupts the recording process.

7 PQRS   **Select call**

Dials the caller's number if it was transmitted.

8 TUV   **Details**

Displays message details.

9 WXYZ   **Fast forward**

Accelerated playback when playing back messages.

Profiset 70isdn

Function keys/destination dialing keys programmed by default

Loudspeaker	*programmable*
Number redial	*programmable*
Telephone directory	*programmable*
Answering machine	*programmable*
AM menu	*programmable*
programmable	*programmable*
programmable	*programmable*
programmable	Shift

Safety precautions and approval

Safety precautions

Profiset®70isdn complies with the European standard EN 60 950, which deals with the safety of information technology appliances including electronic office equipment. This device has been designed with safety in mind, thus protecting both individuals and objects.

For your safety and protection, the telephone must not be used in bathrooms, etc. as it is not splashproof.

There is always the danger of small objects being swallowed by young children. In the case of the Profiset 70isdn, this applies in particular to the connecting cord clip.
Please make sure that such items are not accessible to children.

Location of the telephone

● The telephone should be operated in a controlled environment with an ambient temperature of between +5 °C and +40 °C.

● Under normal circumstances, the rubber feet of the telephone will not leave marks on the installation surface. However, due to the vast array of surface finishes applied to furniture, marks on the installation surface cannot be ruled out. Place the unit on a smooth, non-slip surface.

● To ensure good handsfree talking quality, the area in front of the microphone (front right) should be kept clear. The optimum handsfree distance is 50 cm.

● Do not install the telephone in a room where large quantities of dust accumulate; this can considerably reduce the service life of the telephone.

● Do not expose the telephone to direct sunlight or any other source of heat, as this is liable to damage the electronic equipment and the plastic casing.

● Do not operate the telephone in damp environments such as bathrooms.

● The power supply connector of the NTBA must be inserted.

Safety precautions and approval

Approval and conformity

Your Siemens Profiset® 70isdn has been certified by the "Bundesamt für Zulassungen in der Telekommunikation" (Federal German Bureau of Certification for Telecommunications).

It may thus be connected to and operated in any ISDN multi-device connections and ISDN PBXs.

It has been certified in accordance with EU Guideline 91/263/EEC Telecommunication Terminals.

This telephone meets the requirements of the EU Guideline and the national supplements to it in Germany and thus carries the CE symbol.

The telephone is also intended for use in Switzerland and Austria. It supports the extensive range of ISDN services available. To find out which services are available to you, contact your local network provider.

$\mathsf{C}\,\mathsf{E}$

Contents Profiset 70isdn

Contents Profiset 70isdn

Contents Profiset 70isdn

Seite 12 = links muß leer eingefügt werden: das Dok. beginnt mit rechts = Seite 1

Important information for installation and operation

Maintenance

To clean the telephone, use a damp or anti-static cloth.
Never use any abrasive cleaning agents.

> Do not use a dry cloth as the electronics may be
> damaged by static electricity!

Removing and inserting the labelling cards

Your telephone is supplied with two labelling cards. You
can use them to note the names of users and also the
functions next to the associated function keys (see
➔ page 41).
The illustration shows you how to insert and remove the
labelling cards and transparent foil covers.
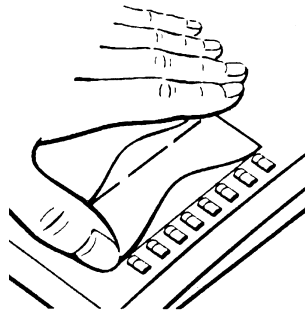
Filling out and affixing the fire/emergency label

A fire/emergency label is supplied along with your tele-
phone.
Fill out the label and affix it to the surface provided
(➔ page III and ➔ page 6).

Important information for installation and operation

ISDN features

Your Profiset 70isdn supports all ISDN features, e.g. toggle, park or conference. The selection of features available depends on your network provider and the selected tariff group (e.g. basic connection or enhanced connection).

Contact your network provider for information on the services available.
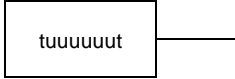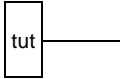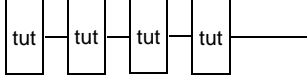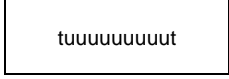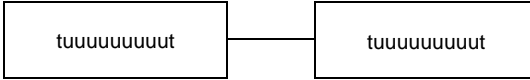
Technical data

Power consumption:	Power supply by NT.
Permitted environmental conditions for operation:	+5 °C to +45 °C 20 % to 75 % relative air humidity
Signalling method:	ISDN DSS1
Dimensions (L x W x H):	282 x 170 x 70 mm
Weight:	790 g
Length of connecting cord:	Telephone connecting cord approx. 3 m
Connecting plug:	Mini-Western RJ45
Answering machine announcements:	Maximum 4 announcements, i.e.: – Announcements for operating mode with recording – 1 closing announcement for operating mode with recording – Information announcement for operating mode without recording
Length of message:	Min. 3 sec., max. can be set to 30, 60, 120 sec. or unlimited.
Answering machine memory:	Digital recording, total recording time approx. 9 min.

Important information for installation and operation

Overview: Signal tones

The switching signals (ringing tone, busy tone, dial tone) come directly from the network provider. Only the following signal tones are specific to this telephone.

Positive confirmation tone:

> tuuuuuut

0.6 s tone with 1600 Hz

Negative confirmation tone:

> tut

0.1 s tone with 2000 Hz

Error tone:

> tut — tut — tut — tut

0.1 s tone with 1600 Hz and a pause of 0.1 s between each tone

Call waiting tone: A queued call is signalled by a single call signal.

Request tone when recording messages:

> tuuuuuuuuut

0.6 s tone with 1600 Hz

OK message for remote answering machine operation when entering the password:

> tut

0.1 s tone with 1600 Hz

VIP tone for caller:

> tuuuuuuuuut   tuuuuuuuuut

1 s tone with 400 Hz and a 1 s-pause

Third party use/disposal

Your Profiset 70isdn telephone should only be passed onto third parties if the instructions for use are included.

When the system has reached the end of its service life, it should be disposed of in an environmentally friendly manner in accordance with the relevant legislation.

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Important information for installation and operation

Warranty

Siemens AG offers a six-month warranty for this device from the date of purchase from the dealer. Always retain receipts as proof of date of purchase.

Over this warranty period, Siemens AG will rectify all material or manufacturing defects by repairing or exchanging the defective terminal. Siemens AG reserves the right to fulfil the warranty conditions by repairing or replacing the defective terminal.

The warranty does not cover damage caused by incorrect use, wear and tear or third party access. The warranty does not cover consumables or defects which only have a minor effect on the value or operability of the terminal.

The Siemens product purchased complies with the technical requirements for connecting to the German public telephone network.

For warranty claims, please contact Siemens Service directly.

Siemens Service

For device defects in **Germany** call the nationwide service number: 0180-5333222

For device defects in **Austria** call

● the Siemens hotline 01/1707-5004
  when connecting directly to the S_o bus

● the respective installation company when connecting to a telephone system, e.g. Siemens PBX in Vienna NÖ, Bgld.
  Directory number: 01/1705

Call for device defects in

Bulgaria	2739488
Belgium	78152221
CzechRep.	224199259
France	0149224284
Greece	16864389
Hongkong	28707559
Indonesia	214615081
Luxembourg	243843399
Malaysia	37558833
Netherlands	703333100
Portugal	14178393
Russia	0959582925
Saudi Arabia	26655058
South Africa	0800114050

Important information for installation and operation

Spain	900181540
Taiwan	27512152
Thailand	29383610
United Kingd.	990334411

> Siemens Service should only be contacted if problems develop with the device.
>
> Your specialist dealer will be happy to answer any questions concerning unit operation.
>
> Contact your network operator for questions concerning telephone connection.

Procedure in the case of malfunctions

The cause of an operating error need not necessarily lie with the device. You may save time and money by rectifying simple faults yourself. The following information should be of help.

Symptom	Cause	Action
No display.	No power supply.	Check that the telephone connecting cord has been inserted correctly in the device and the NTBA. Check the NTBA plug-in connection with the power network.
No dial tone.	No power supply.	Check the plug-in connections of the telephone connecting cord on the device, the ISDN socket, and the NTBA.
	Handset cord not connected correctly.	Check the plug-in connections of the handset cord on the device and on the handset.
No ringing tone.	Loudspeaker volume off.	Set the loudspeaker volume, ➜ page 20.
With PBX operation: No or incorrect connection after dialing from memory.	Trunk code not set.	Program the trunk code, ➜ page 18.
The password entered is rejected.	Password entered incorrectly.	Try again. If you have forgotten your password, contact Siemens Service, ➜ page 4.

Putting the system into service

Putting the system into service

Symbols used in these operating instructions

◀ ▶   Scroll forward or backward to make your selection.

Ⓥ   Make your selection.

▦ and Ⓥ   Enter the desired value and confirm your input.

| Telephone directory | ▌▬   Press the appropriate key.

In some cases, display messages are provided, e.g.:

| MSN missing |
| Configuration?   > |

Many of the Profiset 70isdn functions can be selected via menus. Menu selection is illustrated as follows:

▶ | Service? | Ⓥ ▶ | 5=audio? | Ⓥ ▶ | 2=ringer volume? | Ⓥ

For information on display-prompted operation of Profiset 70isdn, see ➔ page 12.

> ⓘ   Please read the "Safety precautions and approval" information at the front of these operating instructions before putting the telephone into operation.

Please follow the step-by-step instructions below.

Step 1: Check the contents of the package

The default package contains:

- 1 Profiset 70isdn,
- 1 handset,
- 1 handset cord (coiled),
- 1 ISDN connecting cord,
- 1 operating instruction (not illustrated),
- 1 labelling card for programmable keys (not illustrated),
- 1 fire/emergency label (not illustrated).
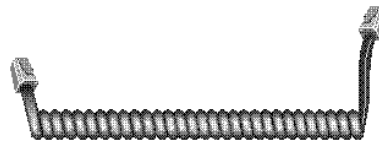
Putting the system into service

Profiset 70isdn

ISDN connecting cord

Handset

Handset cord (coiled)

Putting the system into service

Step 2: Connect the telephone

To ISDN socket

Telephone connecting cord

Handset cord (coiled)
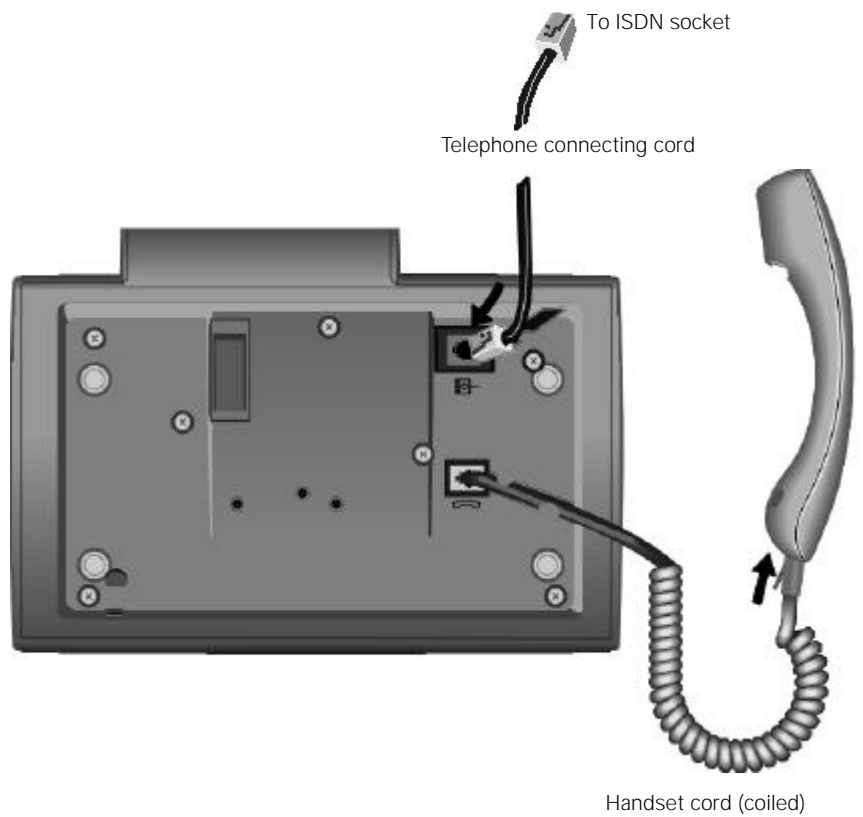
Handset cord (coiled)

Both ends of the handset cord have the same connector.

Insert one connector into the socket labelled ☎ on the underside of the device and insert the other connector into the handset below the mouthpiece. Feed the cable into the cable run.

In both cases, the connectors must engage audibly.

Note that the NTBA plug must be connected to the power grid. Profiset 70isdn takes the necessary power from this NTBA.

Putting the system into service

Telephone connecting cord

Both ends of the telephone connecting cord have the same connector.

Insert one connector into the socket labelled ▦ on the underside of the device and insert the other connector into your ISDN socket. Feed the cable into the cable run.

In both cases, the connectors must engage audibly.

## Step 3: Program the multiple subscriber numbers (MSNs)

If you have connected the Profiset 70isdn correctly, the following message now appears on the telephone display:

MSN missing	
Configuration?	>

We recommend that you enter the MSNs when first putting the telephone into service, because only then can you use the answering machine functions. The MSNs (multiple subscriber numbers) are the directory numbers you were assigned for your ISDN connection. These numbers are entered as follows:

Press the ⓥ key twice.

MSN 1	
_	Continue with OK

Enter one of the three MSNs using keys ⓪ through ⑨. You received the MSNs from the network provider with your ISDN connection. Do not enter any country or area codes!
Confirm your entry with ⓥ.
Press ⓥ when finished.

MSN 2	
_	Continue with OK

Enter the second MSN. Confirm your entry with ⓥ.

MSN 3	
_	Continue with OK

Enter the third MSN. Confirm your entry with ⓥ.

> ℹ It is not necessary to enter MSNs 2 and 3. If you do not want to enter these MSNs, skip the prompt for these numbers by pressing ⓥ without entering any digits.
>
> MSNs can be entered at any time (➔ page 18).

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Putting the system into service

> ℹ You can return to the telephone default settings after completing the procedure for entering MSN numbers by pressing ⊗ twice.

Step 4: Setting the user language and the national version

If you wish to use a different language, the procedure is as follows:

Press the ▶ key until the lower display line shows:

Service? >

Press the ⱽ key.

Press the ▶ key until the lower display line shows:

2=configuration? >

Press the ⱽ key.

Press the ▶ key until the lower display line shows:

12=language? >

Press the ⱽ key.
Keep pressing key ▶ until the language which you require appears.
Press the ⱽ key.
Press ⊗ when finished.

You can also set the national version, if required. This takes account of specific national features, such as emergency call numbers.

Press the ▶ key until the lower display line shows:

Service? >

Press the ⱽ key.

Press the ▶ key until the lower display line shows:

2=configuration? >

Press the ⱽ key.

Press the ▶ key until the lower display line shows:

02=national variant? >

Press the ⱽ key.
Keep pressing key ▶ until the national code which you require appears.
Press the ⱽ key.
Press ⊗ when finished.

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Putting the system into service

Step 5 (PBX operation only): Program the trunk code

If you are operating your Profiset 70isdn at a telecommunications system (private branch exchange), you must program a trunk code in accordance with the configuration of the system.

Press the ⊙ key until the lower display line shows:

Service?   >

Press the ⓥ key.

Press the ⊙ key until the lower display line shows:

2=configuration?   >

Press the ⓥ key.

Press the ⊙ key until the lower display line shows:

15=external call?   >

Enter the trunk code using the keypad, e.g. 0 (depending on your telecommunications system). Then press ⓥ. Press ⊗ when finished.

Step 6: Try out the telephone

You can now try out your Profiset 70isdn!

To call a subscriber:

✆ Lift the handset.

▦ Enter the directory number.
The number is dialed.

To call yourself:

✆ Lift the handset.

▦ Enter the directory number.
The number is dialed.
The entry appears in your call list.

> The date and time are preset with zeros by default (upper display line). The correct date and time are set automatically by the switching centre the first time an outgoing call is set up. If your network provider does not support this service, you can program the date and time yourself (➜ page 20).

Display-driven telephone operation

Display-driven telephone operation

Your Profiset 70isdn has a two-line display. Each line can display up to 24 characters.

Upper display line: Information and selected functions

Current information is shown in the upper display line:

● When the telephone is idle, the date and time are displayed.

● If you have programmed call forwarding or a lock, this is indicated.

● If you scroll and select a menu item, the selected menu item is displayed.

● During a call, the current switching status is displayed.

Lower display line: Menus

The settings and enhanced functions of the Profiset 70isdn are accessed via menus. The lower line of the display shows a line from a menu (menu item).

Use the Ⓐ and Ⓑ keys to "scroll" through a menu.

Press Ⓥ to confirm the particular menu item displayed.

You can cancel the process at any time by pressing Ⓧ.

Your Profiset 70isdn offers different menus depending on whether the telephone is idle or whether a call is in progress. At all times, the menu items available to you are those suited to the particular situation.
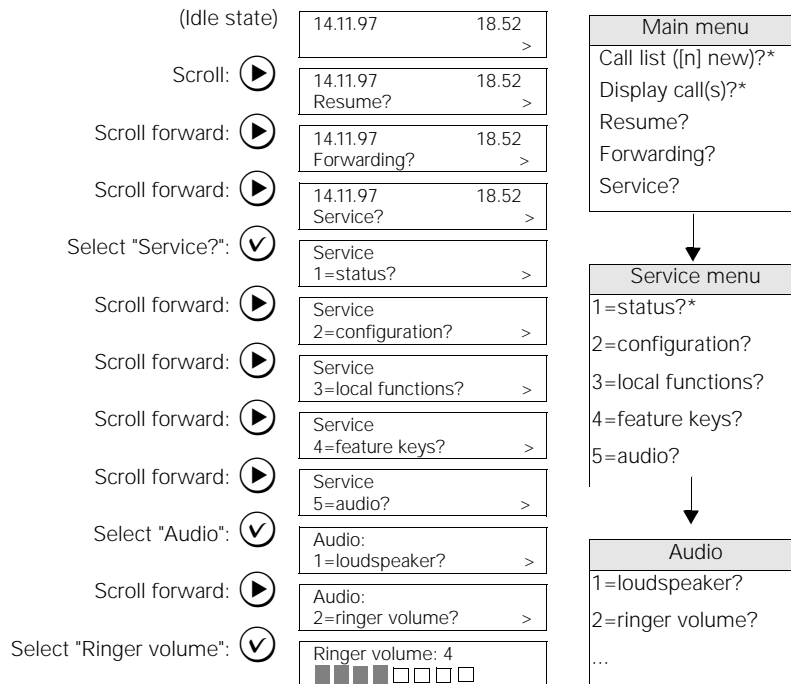
> You can cancel the current action at any time without making any changes by lifting and replacing the handset. The basic menu is then displayed immediately. This is the quickest way to end or cancel a process if you have not yet confirmed your changes is by pressing Ⓥ.

Display-driven telephone operation

Selecting from menus

The following sample sequence shows you how to set the volume of the ringing tone. In this case, the telephone must be idle.

(Idle state)	14.11.97 18.52 >	
Scroll: ▶	14.11.97 18.52 Resume? >	**Main menu** Call list ([n] new)?* Display call(s)?* Resume? Forwarding? Service?
Scroll forward: ▶	14.11.97 18.52 Forwarding? >	
Scroll forward: ▶	14.11.97 18.52 Service? >	
Select "Service?": ✓	Service 1=status? >	
Scroll forward: ▶	Service 2=configuration? >	**Service menu** 1=status?* 2=configuration? 3=local functions? 4=feature keys? 5=audio?
Scroll forward: ▶	Service 3=local functions? >	
Scroll forward: ▶	Service 4=feature keys? >	
Scroll forward: ▶	Service 5=audio? >	
Select "Audio": ✓	Audio: 1=loudspeaker? >	**Audio** 1=loudspeaker? 2=ringer volume? ...
Scroll forward: ▶	Audio: 2=ringer volume? >	
Select "Ringer volume": ✓	Ringer volume: 4 ■■■■□□□□	

* These menu entries are only available if entries exist or settings are active.

Representation of menu selection in these operating instructions

In these operating instructions, the "route" to selecting a particular function via menus is indicated as follows:

▶ | Service? | ✓ ▶ | 5=audio? | ✓ ▶ | 02=ringer volume? | ✓
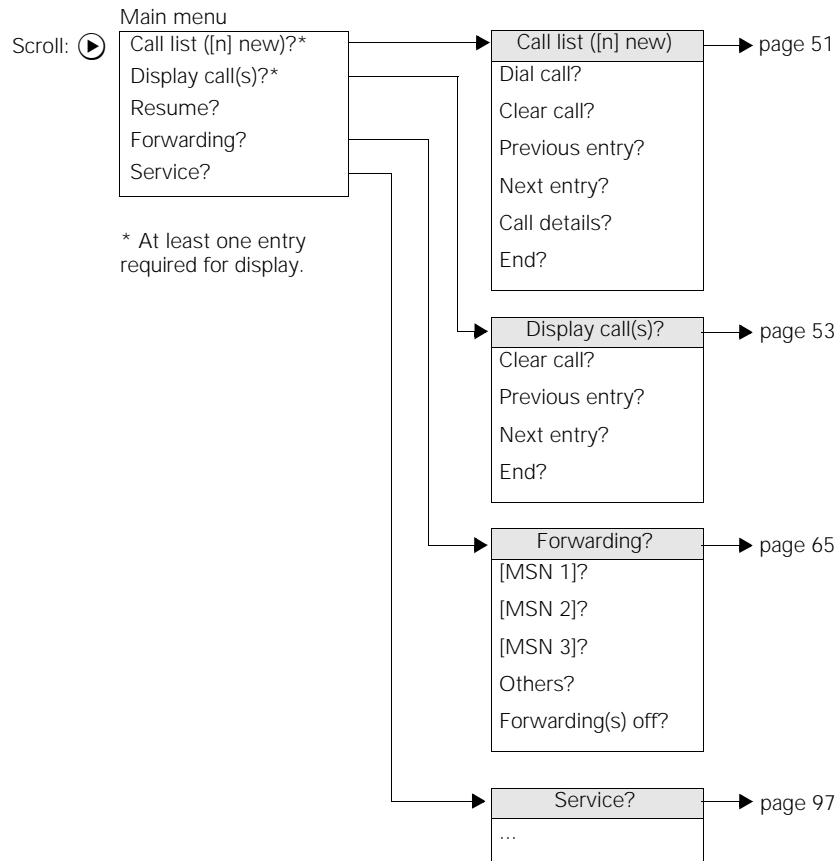
13
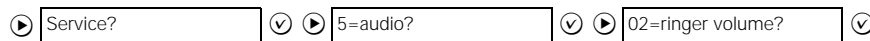
Display-driven telephone operation

Using menu numbers

You can speed up menu selection by entering the menu numbers displayed. In the example, you can thus enter **5** on the keypad to choose menu item "5=audio?" after you have selected "Service". In the "5=audio?" menu, you can then activate "2=ringer volume?" by entering **2** on the keypad.
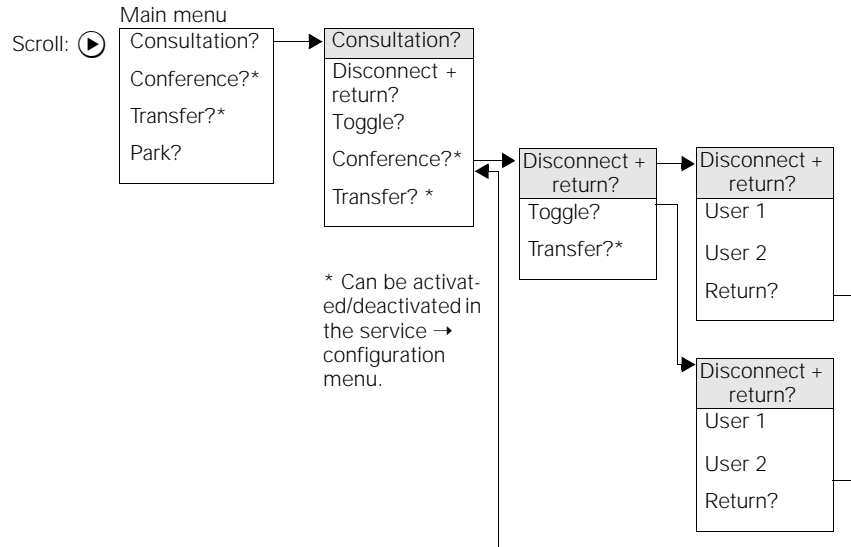
Structure of Profiset 70isdn menus

Below is an overview of the structure of the Profiset 70isdn menus.
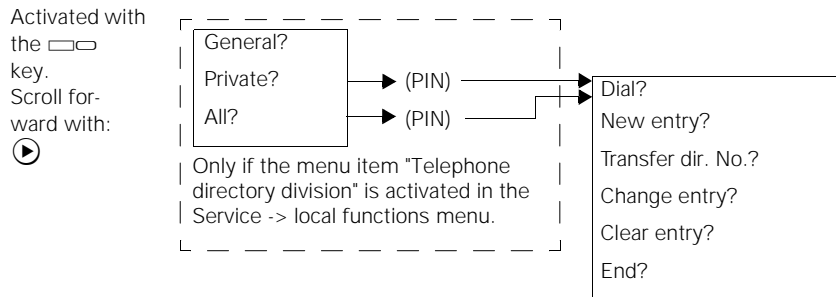
When the telephone is idle:

Main menu

Scroll: (▶)

Call list ([n] new)?*	→ page 51
Display call(s)?*	
Resume?	
Forwarding?	
Service?	

* At least one entry required for display.

Call list ([n] new) → page 51

Dial call?

Clear call?

Previous entry?

Next entry?

Call details?

End?

Display call(s)? → page 53

Clear call?

Previous entry?

Next entry?

End?

Forwarding? → page 65

[MSN 1]?

[MSN 2]?

[MSN 3]?

Others?

Forwarding(s) off?

Service? → page 97

...

Display-driven telephone operation

During a call

Scroll: ▶

Main menu

```
Consultation?      →   Consultation?
Conference?*           Disconnect +
Transfer?*             return?
Park?                  Toggle?
                       Conference?*
                       Transfer? *
```

```
Disconnect +           Disconnect +
return?            →    return?
Toggle?                User 1
Transfer?*             User 2
                       Return?
```

* Can be activated/deactivated in the service → configuration menu.

```
                       Disconnect +
                       return?
                       User 1
                       User 2
                       Return?
```

Telephone directory

Activated with the ▭▭ key.
Scroll forward with:
▶

```
General?           →   (PIN)          →   Dial?
Private?               (PIN)              New entry?
All?                                      Transfer dir. No.?
                                          Change entry?
```

Only if the menu item "Telephone directory division" is activated in the Service -> local functions menu.

```
                                          Clear entry?
                                          End?
```

Programming telephone settings

Password

You can define a password to protect against unauthorised settings on your telephone. The password is a 4-digit secret number. The following telephone functions can then only be activated after the password has been entered correctly:

- Configuration,
- Call charge management,
- Barring functions,
- Direct station selection (babyphone).
- Private part of the telephone directory,
- Telephone directory division,
- Checking the answering machine remotely.

▶ | Service? | ✓ ▶ | 3=local functions? | ✓ ▶ | 2=password? | ✓

🔢 Enter the password. For security reasons, when you are entering the password, the digits you input are represented on the display as symbols only.
Backspace to delete with ◀.

✓ Save the password. "Confirm password" appears on the display. The password must be entered a second time for it to take effect.

🔢 Re-enter the password. Backspace to delete with ◀.

✓ Save the password.

> ℹ️ If you enter an incorrect password, you will receive an error message. If you forget your password, it may be necessary to open up the device. Forgetting your password is like losing a key. If this happens, please contact your specialist dealer.

Changing/deleting your password

You can change or delete an existing password. When you delete a password all telephone functions are accessible without protection.

▶ | Service? | ✓ ▶ | 3=local functions? | ✓ ▶ | 2=password? | ✓

Programming telephone settings

🔢 and Ⓥ   Enter the old password. For security reasons, when you are entering the password, the digits you input are represented on the display as symbols only.
Backspace to delete with ◀.

🔢 and Ⓥ   To change the old password:
enter the new password.

Ⓥ   To delete the old password:
do not enter a new password. Instead, press OK to continue.

The message "Confirm password"
appears on the display.

🔢 and Ⓥ   To change the old password:
re-enter the new password.

Ⓥ   To delete the password:
press OK to continue.

The password is thus change or deleted.

Call processing type

The following settings are possible:

- **1 = Main station**. If you were assigned MSNs by your local network provider, this is the correct call processing type. Several devices with the same or different MSN can be connected to a main station, whereby calls between these devices are liable for charges. "Main station" is also the correct connection type for operating at the majority of extensions.

- **2 = CENTREX extension (CTX)**. In principle, this call processing type is the same as the main station. The only difference is that an additional signalling mode (keypad) is available so that additional CENTREX features of other network providers can be used. For information on the control sequences, please refer to the description of the network provider.

- **3 = S$_0$ extension (PBX)**. This connection type is used with a PBX on the S$_0$ bus. These systems include Siemens 8818/A6 systems and Octopus systems from Deutsche Telekom AG. Several devices can be operated on a bus; for details, see the PBX operating instructions. Calls between the subscribers connected to the PBX are free of charge.

- **4 = Point-to-point (PP)**. Point-to-point connection = system operation. In the event of a telephone system failure, the telephone can be operated at a system connection. In this emergency operation scenario, simple telephone functions can be activated.

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Programming telephone settings

⊙ | Service? | ⓥ ⊙ | 2=configuration? | ⓥ

📱 and ⓥ   With password protection (➔ page 16): enter the pass-
                word.

         ⊙ | 13=call process. type? | ⓥ

      ⊙⊙   Select the call processing type.

         ⓥ   Save the setting.

Trunk code for operation at a PBX

A trunk code must be defined if your Profiset 70isdn is op-
erated in a private branch exchange (PBX). In this case,
enter the digit(s) used by the telephone to access the
public telephone network (see the operating instructions
for your PBX).

⊙ | Service? | ⓥ ⊙ | 2=configuration? | ⓥ

📱 and ⓥ   With password protection (➔ page 16): enter the pass-
                word.

         ⊙ | 15=external call? | ⓥ

         📱   Enter the trunk code. Backspace to delete with ⊙.

         ⓥ   Save the setting.

Multiple subscriber numbers (MSN)

You can enter your MSNs. Do not enter any country or
area codes! Entry of the 2nd and 3rd MSN is optional.

⊙ | Service? | ⓥ ⊙ | 2=configuration? | ⓥ

📱 and ⓥ   With password protection (➔ page 16): enter the pass-
                word.

         ⊙ | 01=directory number(s)? | ⓥ

         📱   Enter the 1st MSN. Backspace to delete with ⊙.

         ⓥ   Save the setting.

📱 and ⓥ   Enter the 2nd MSN and save.

📱 and ⓥ   Enter the 3rd MSN and save.

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Programming telephone settings

> ![i] You cannot change an MSN if forwarding is acti-
> vated for it (see ➜ page 65).
>
> If you do not enter any MSNs, all directory num-
> bers assigned to the NT are accepted.
>
> If you enter an incorrect MSN, you can only con-
> duct outgoing calls. Callers will hear the busy
> tone and, with ISDN, an information text will ap-
> pear on the display.

National variants

This setting is used to define country-specific features such as emergency numbers and call charge parameters. The setting does not affect the language of the display.

▶ | Service? | ⓥ ▶ | 2=configuration? | ⓥ

▦ and ⓥ   With password protection (➜ page 16): enter the pass-
word.

▶ | 02=national variant? | ⓥ

◀▶   Select the national variant:
01=D for Germany, 02=A for Austria,
03=CH for Switzerland or 04=I for Italy.

ⓥ   Save the setting.

> ![i] If you select "04=Italy", other country-specific
> settings can be made.

User language

You can set the display language independently of the na-
tional variant.

▶ | Service? | ⓥ ▶ | 2=configuration? | ⓥ

▦ and ⓥ   With password protection (➜ page 16): enter the pass-
word.

▶ | 12=language? | ⓥ

◀▶ or ▦   Select the language or press:
1 = German, 2 = English, 3 = French, 4 = Italian

ⓥ   Save the setting.

Programming telephone settings

Date/time

The date and time are preset with zeros by default. The correct date and time are set automatically by the switching centre the first time an outgoing call is set up. If your network provider does not support this service, you can program the date and time yourself. Your input is checked for plausibility.

▶ | Service? | ⓥ ▶ | 2=configuration? | ⓥ

▦ and ⓥ　　With password protection (➔ page 16): enter the password.

▶　　| 03=date/time? | ⓥ

◀▶　　Select the date format.

ⓥ　　Save the date format.

▦　　Enter the date.

ⓥ　　Save the date.

▦　　Enter the time.

ⓥ　　Save the time.

Display contrast

You can adapt the display contrast to suit your lighting conditions. In this case, the Profiset must be idle.

⊖ or ⊕　　Define the setting.

Loudspeaker volume

You can set the volume of the loudspeaker to eight levels. The volume is preset to level 5.

▶ | Service? | ⓥ ▶ | 5=audio? | ⓥ ▶ | 1=loudspeaker? | ⓥ

▦ or ⊖⊕ or ◀▶　　Enter a value between 1 and 8 or select:
1 means minimum volume, 8 means maximum volume.

ⓥ　　Save the setting.

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Programming telephone settings

Ringer volume

You can set the volume of the call signal to eight levels. The volume is preset to level 5.

ⓘ▶ | Service? | ✓ ▶ | 5=audio? | ✓ ▶ | 2=ringer volume? | ✓

⌨ or ⊖⊕ or ◀▶   Enter a value between 1 and 8 or select:
1 means very low; 8 means very loud.

✓   Save the setting.

Ringer tone

A specific ringer tone melody and tone sequence can be set for each MSN. There are eight different tone sequence levels for the frequency and melody.
The presettings are:
for MSN 1 tone sequence 2 and melody 2,
for MSN 2 tone sequence 4 and melody 4,
for MSN 3 tone sequence 6 and melody 6.

▶ | Service? | ✓ ▶ | 5=audio? | ✓ ▶ | 3=ringer tone MSN 1? | ✓

or

▶ | 4=ringer tone MSN 2? | ✓

or

▶ | 5=ringer tone MSN 3? | ✓

⌨ or ⊖⊕   Enter a value between 0 and 7 for each of the tone sequence and melody settings. You can scroll between the two values using ◀ and ▶.

✓   Save the setting.

Handset volume

You can set the volume of the handset to eight levels. The volume is preset to level 2.

▶ | Service? | ✓ ▶ | 5=audio? | ✓ ▶ | 6=handset volume? | ✓

⌨ or ⊕⊖ or ◀▶   Enter a value between 1 and 8 or select:
1 means minimum handset volume; 8 means maximum handset volume.

✓   Save the setting.

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Programming telephone settings

Room characteristics

You can optimise the acoustic properties of Profiset 70isdn as appropriate. You can choose between normal, echoing and attenuated rooms. This setting applies to the handsfree function (➜ page 55).

▶ | Service? | ✓ ▶ | 5=audio? | ✓ ▶ | 7=room characterist.? | ✓

◀▶ Select the type of room.

✓ Save the setting.

> ℹ If change the room characteristics frequently, you can program keys with the functions "Room echoing" and "Room attenuated" (➜ page 42).

Setting the currency and tariff for the individual meter

Before you switch on the individual meter, you should enter the tariff unit factor, i.e. the costs calculated by your network operator for each call charge unit.

▶ | Service? | ✓ ▶ | 3=local functions? | ✓ ▶ | 1=changes? | ✓

▦ and ✓ With password protection (➜ page 16): enter the password.

▶ | 1=charge meter? | ✓

◀▶ and ✓ Select "Program?" and confirm.

◀▶ and ✓ Select "Currency?" and confirm.

▦ Enter the number of decimal places for the currency. Possible values are between 0 and 3. The default value is 2.

✓ Save the setting.

▦ Enter the tariff unit factor calculated by your network provider for each call charge unit.

✓ Save the setting.

Programming telephone settings

Activating/deactivating the individual meter

If the individual meter is activated, the accrued charges are indicated for approx. 3.5 seconds in the telephone display following each call you make which is liable for charges.

(▶) | Service? | (v) (▶) | 3=local functions? | (v) (▶) | 1=charges? | (v)

🔢 and (v)   With password protection (➔ page 16): enter the password.

(▶) | 1=charge meter? | (v)

The upper display line indicates whether the individual meter is switched on or off.

(◀)(▶)   Select "switch over?".

(v)   Save the setting. If the individual meter was previously deactivated, it is now switched on. If it was activated, it is now switched off.

Activating/deactivating the summation meter for charges

If the summation meter is switched on, the sum of all charges accrued thus far is indicated for approx. 3.5 seconds in the display following each toll call made.

(▶) | Service? | (v) (▶) | 3=local functions? | (v) (▶) | 1=charges? | (v)

🔢 and (v)   With password protection (➔ page 16): enter the password.

(▶) | 2=summation meter? | (v)

The upper display line indicates whether the summation meter is switched on or off.

(◀)(▶)   Select "switch over?".

(v)   Save the setting. If the summation meter was previously deactivated, it is now switched on. If it was activated, it is now switched off.

> 🛈 There may be differences between the device's meter and the individual meter of the switching centre. The individual meter of the network operator is definitive for the telephone bill.

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Programming telephone settings

Clearing the summation meter

The summation meter for charges can be cleared at any time. The summation meter then restarts at 0.

▶ | Service? | ✓ ▶ | 3=local functions? | ✓ ▶ | 1=charges? | ✓

⊞ and ✓   With password protection (➔ page 16): enter the password.

▶ | 2=summation meter? | ✓

✓   Confirm "Clear sum?".

Activating/deactivating your own directory number display

You must apply to your local network provider for this feature. Inquire about the respective charges.

You can temporarily suppress the display of your directory number on another party's display.

▶ | Service? | ✓ ▶ | 2=configuration? | ✓

⊞ and ✓   With password protection (➔ page 16): enter the password.

▶ | 04=show own dir. No.? | ✓

The upper display line indicates whether or not your own directory number is displayed.

◀ ▶   Select "switch over?".

✓   Save the setting. If your number was previously shown on the other party's display, it is now no longer displayed. If it was not displayed, it is now displayed.

> **ⓘ** You can also prevent your own directory number from being displayed by programming an "Anonymous" function key (➔ page 42). When the "Anonymous" key is activated (LED lights up), your directory number is not displayed.

Programming telephone settings

Activating/deactivating display of caller's number

The directory numbers of callers with ISDN connections can be displayed if desired.

▶ | Service? | ⓥ ▶ | 2=configuration? | ⓥ

▦ and ⓥ   With password protection (➔ page 16): enter the password.

▶ | 05=show rmt dir. No.? | ⓥ

The upper display line indicates whether or not the number of your caller is displayed.

◀▶   Select "switch over?".

ⓥ   Save the setting. If the caller's number was previously displayed, it is now no longer displayed. If it was not displayed, it is now displayed.

Permitting/barring info texts

You must apply to your local network provider for this feature. Inquire about the respective charges.

You can either permit or bar the transmission of info texts.

▶ | Service? | ⓥ ▶ | 2=configuration? | ⓥ

▦ and ⓥ   With password protection (➔ page 16): enter the password.

▶ | 11=info text? | ⓥ

The upper display line indicates whether you have permitted or barred the transmission of info texts.

◀▶   Select "switch over?".

ⓥ   Save the setting. If info texts were previously barred, they are now permitted. If they were permitted, they are now barred.

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Programming telephone settings

Enabling/disabling call waiting

You can set whether or not incoming calls are to be signalled during a call. You must apply to your local network provider for this feature. Inquire about the respective charges.

▶ Service?   Ⓥ ▶ 2=configuration?   Ⓥ

▦ and Ⓥ   With password protection (➔ page 16): enter the password.

▶   14=call waiting?   Ⓥ

The upper display line indicates whether you have enabled or disabled call waiting.

◀▶   Select "switch over?".

Ⓥ   Save the setting. If call waiting was previously disabled, it is now enabled. If it was enabled, it is now disabled.

Activating/deactivating the "forwarding" menu item

You can set whether or not the "forwarding" option appears in the main menu of your Profiset 70isdn. You must apply to your local network provider for the call forwarding feature. Inquire about the respective charges. For information on programming and activating call forwarding ,see ➔ page 65.

▶ Service?   Ⓥ ▶ 2=configuration?   Ⓥ

▦ and Ⓥ   With password protection (➔ page 16): enter the password.

▶   07=ring transfer?   Ⓥ

The upper display line indicates whether you have activated or deactivated the display of the "forwarding" menu item.

◀▶   Select "switch over?".

Ⓥ   Save the setting. If the setting was previously deactivated, it is now activated. If it was activated, it is now deactivated.

Programming telephone settings

Activating/deactivating room monitoring

This function allows you to use another telephone to acoustically monitor the room in which your telephone is located (see ➔ page 93).

(▶) | Service? | (✓) (▶) | 2=configuration? | (✓)

📱 and (✓)   With password protection (➔ page 16): enter the password.

(▶) | 19=room monitoring? | (✓)

The upper display line indicates whether room monitoring is switched on or off.

(◀)(▶)   Select "switch over?".

(✓)   Save the setting. If room monitoring was previously deactivated, it is now switched on. If it was activated, it is now switched off.

Locks

You can lock your Profiset 70isdn against unauthorised use:

● **Direct station selection (babyphone)** only allows you to dial a preset DSS number (procedure ➔ page 59).

● **Total lock** only allows you to dial two programmed emergency numbers (procedure ➔ page 60).

● **Dial restriction with lockout numbers.**
You can lock up to 9 different number ranges. This means you cannot dial any number that begins with a numbering sequence included in the lockout list (e.g. international numbers, service numbers, etc. – procedure ➔ page 59).

You can also program a Barring functions feature key (➔ page 42). You can program this key to activate/deactivate the total lock or to activate/deactivate a lockout number.

Programming direct station selection (babyphone)

The direct station selection number can be dialed if the telephone is locked with direct station selection.

(▶) | Service? | (✓) (▶) | 6=barring functions? | (✓)

Programming telephone settings

📱 and ⓥ   With password protection (➜ page 16): enter the password.

▶ | 02=direct stn select.? | ⓥ

◀▶ and ⓥ   Select "switch over?".

📱   Enter the desired direct station selection number. Backspace to delete with ◀. To delete the direct station selection number entirely, keep pressing ◀ until no further digits are displayed.

ⓥ   Save the setting.

Locking the telephone with direct station selection (babyphone)

If direct station selection is activated, the telephone is locked. To dial the programmed direct station selection number, simply press any number key or programmable key.

▶ | Service? | ⓥ ▶ | 6=barring functions? | ⓥ

📱 and ⓥ   With password protection (➜ page 16): enter the password.

▶ | 02=direct stn select.? | ⓥ

The upper display line indicates whether the lock is activated or deactivated with direct station selection.

◀▶   Select "switch over?".

ⓥ   Save the setting. If the lock was previously deactivated with direct station selection, it is now activated. If it was previously activated, it is now deactivated.

Programming emergency numbers

Emergency numbers can also be dialed when the total lock feature is activated. You can program 2 emergency numbers. Your Profiset 70isdn comes with two preprogrammed emergency numbers, namely, 110 for emergency number 1 and 112 for emergency number 2.

▶ | Service? | ⓥ ▶ | 6=barring functions? | ⓥ

📱 and ⓥ   With password protection (➜ page 16): enter the password.

Programming telephone settings

▶ | 12=emergency no. 1? | ⓥ

or

▶ | 13=emergency no. 2? | ⓥ

◀▶ and ⓥ   Select "Change".

▦   Enter the required emergency number. Backspace to de-
lete with ◀. To delete the entire emergency number,
press ◀ until no more digits are displayed.

ⓥ   Save the setting.

Activating/deactivating the total lock

You can lock your telephone to prevent unauthorised use.
Only emergency numbers can be dialed when the tele-
phone is locked.

▶ | Service? | ⓥ ▶ | 6=barring functions? | ⓥ

▦ and ⓥ   With password protection (➔ page 16): enter the pass-
word.

▶ | 01=total lock? | ⓥ

The upper display line indicates whether the total lock is
activated or deactivated.

◀▶   Select "switch over?".

ⓥ   Save the setting. If the total lock was previously deacti-
vated, it is now activated. If it was previously activated, it
is now deactivated.

Programming and activating lockout numbers

You can program specific ranges of numbers that cannot
be dialed from your Profiset 70isdn. These ranges can in-
clude, for example, international numbers or service num-
bers. You can program up to nine lockout numbers.

▶ | Service? | ⓥ ▶ | 6=barring functions? | ⓥ

▦ and ⓥ   With password protection (➔ page 16): enter the pass-
word.

▶ | 03=lockout number 1? | ⓥ

or to   lockout number 2, 3, etc.

▶ | 11=lockout number 9? | ⓥ

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Programming telephone settings

⊙⊙ and ⓥ   Select "Change".

▦   Enter the required range of numbers (e.g. "00"). You can enter up to five digits. Backspace to delete with ⊙. To delete the entire lockout number, press ⊙ until no more digits are displayed.

ⓥ   Save the setting. The lock is automatically activated.

Deactivating and reactivating lockout numbers

You can deactivate and re-activate programmed lockout numbers at any time.

⊙ | Service? | ⓥ ⊙ | 6=barring functions? | ⓥ

▦ and ⓥ   With password protection (➜ page 16): enter the password.

⊙ | 03=lockout number 1? | ⓥ

or to   lockout number 2, 3, etc.

⊙ | 11=lockout number 9? | ⓥ

⊙⊙ and ⓥ   Select "Change" and observe the upper display line.

ⓥ   If "locked" is displayed, deactivate the lockout number.
If "unlocked" is displayed, activate the lockout number.

Activating/deactivating collective lockout

By deactivating the collective lockout feature, you can de-activate all activated lockout numbers in one go. All directory numbers can then be dialed once more. All lockout numbers are re-activated when you activate collective lockout.
If you enter new lockout numbers when collective lockout is switched off, the feature is automatically switched on. The new lockout numbers are thus activated. The "old" lockout numbers remain deactivated and must be activated one by one when needed.

⊙ | Service? | ⓥ ⊙ | 6=barring functions? | ⓥ

▦ and ⓥ   With password protection (➜ page 16): enter the password.

⊙ | 14=collective lockout? | ⓥ

The upper display line indicates whether collective lockout is activated or deactivated.

Programming telephone settings

◀ ▶　　　Select "switch over?".

ⓥ　　　　Save the setting. If the collective lock was previously de-
activated, it is now activated. If it was previously activat-
ed, it is now deactivated.

Checking the settings (status)

You can check the principal settings for your Profiset
70isdn at any time.

▶ | Service? | ⓥ ▶ | 1=status? | ⓥ

Important settings are displayed for several seconds at a
time. Observe the display.

> **ⓘ** If you use this feature frequently, you can pro-
> gram a "Status" function key (➔ page 42).

Clearing memory

You can clear any or all of the following memories:

- Individual meter (summation meter)
- Locks
- Destination dialing
- Telephone directory

The "Clear memory" command can be used to delete the
following settings and memories in one go:

- Redial key, call list, telephone directory, destination di-
  aling key , summation meter, emergency numbers 1
  and 2, lockout numbers, direct station selection and
  total lock.

▶ | Service? | ⓥ ▶ | 3=local functions? | ⓥ

４　　　　Press key "4".

▦ and ⓥ　With password protection (➔ page 16): enter the pass-
word.

◀ ▶ and ⓥ　Select the memory you want to clear.
The "clear memory?" selection deletes all the above-men-
tioned settings and memories.

◀ ▶　　　Select "Clear?" (this additional query is output to prevent
inadvertent deletion).

ⓥ　　　　Confirm. The memory is cleared.

Programming telephone settings

> It may take several seconds to clear the memory. The display remains frozen during this time.

Restoring the as-supplied condition

The Profiset 70isdn can be reset to the factory default settings.

▶ Service? ✓ ▶ 3=local functions? ✓

4 Press "4".

▦ and ✓ With password protection (→ page 16): enter the password.

▶ 6=as-suppl. condition? ✓

◀▶ Select "Set?" (this additional query is output to prevent inadvertent deletion of individual settings).

✓ Confirm. The as-supplied condition is restored.

> It may take several seconds to restore the as-supplied condition. The display remains frozen during this time.

National access code

The national access code (code for connections to other local networks) is required for the comparison of the recorded directory numbers received via CLIP/COLP. For an explanation of the abbreviations CLIP and COLP, see the ISDN glossary (→ page 94).

The factory default is 0.

You can only change this value if the network operator has a new or a different access code.

▶ Service? ✓ ▶ 2=configuration? ✓

▦ and ✓ With password protection (→ page 16): enter the password.

▶ 16=nat. access code? ✓

▦ Enter the national access code (max. 4 digits). Backspace to delete with ◀.

✓ Save the setting.

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Programming telephone settings

International access code

The international access code (code for connections abroad) is required for the comparison of the recorded directory numbers received via CLIP/COLP. For an explanation of the abbreviations CLIP and COLP, see the ISDN glossary (➔ page 94).

The factory default is 00.

You can only change this value if the network operator has a new or a different access code.

ⓑ Service?   Ⓥ ⓑ 2=configuration?   Ⓥ

▦ and Ⓥ   With password protection (➔ page 16): enter the password.

ⓑ 17=int. access code?   Ⓥ

▦   Enter the international access code (max. 4 digits). Backspace to delete with ◀.

Ⓥ   Save the setting.

Area code

The area code (code for connections within the same local network) is required for the comparison of the recorded directory numbers received via CLIP/COLP. For an explanation of the abbreviations CLIP and COLP, see the ISDN glossary (➔ page 94).

You can set the local access code for your ISDN connection yourself.

ⓑ Service?   Ⓥ ⓑ 2=configuration?   Ⓥ

▦ and Ⓥ   With password protection (➔ page 16): enter the password.

ⓑ 18=area code?   Ⓥ

▦   Enter your own area code (e.g. 089 for Munich) (max. 6 digits). Backspace to delete with ◀.

Ⓥ   Save the setting.

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Managing the telephone directory

You can store up to 127 entries in the electronic telephone directory. The entries are made up of directory numbers (max. 24 digits) and names (max. 18 characters).

When you activate the telephone directory, the names are displayed in alphabetical order. This makes it easy to search for the desired name and dial directly from the telephone directory (➔ page 47).

Activating/deactivating general/private telephone directory division

You can divide your Profiset 70isdn telephone directory of your Profiset 70isdn into a general and a private section. If you have defined a password (➔ page 16), the private section of the telephone directory can only be accessed by entering this password.

▶ Service?   ⓥ ▶ 3=local functions?   ⓥ ▶ 3=tel. dir. div.?   ⓥ
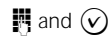
▦ and ⓥ	With password protection (➔ page 16): enter your password.
◀▶ and ⓥ	Select "switch over?" and confirm.
	The upper display line indicates whether the telephone directory division is activated or deactivated.
◀▶	Select "switch over?".
ⓥ	Save the setting. If the telephone directory division was previously deactivated, it is now activated. If it was activated, it is now deactivated.

Entering characters via the keypad

The names of users are entered via the keypad. If the display prompts you to enter a name, use the letters and special characters on the number keys of the keypad.

For example, if you want to enter an "A", press the ⓶ key once, because "A" is the first letter on this particular number key.
If you want to enter a "B", press the ⓶ key twice, because "B" is the second letter on this number key.
If you want to enter an "S", press the �7 key four times, because "S" is the fourth letter on this number key.

If you press down a key for longer, you can also obtain each of the characters associated with this key.

Managing the telephone directory

The following overview shows all the characters you can enter:

A = 1 time 2	**1** = 5 times 1	␣ = 1 time 0
B = 2 times 2	**2** = 4 times 2	**.** = 2 times 0
C = 3 times 2	**3** = 4 times 3	**-** = 3 times 0
D = 1 time 3	**4** = 4 times 4	**+** = 5 times 0
E = 2 times 3	**5** = 4 times 5	**,** = 6 times 0
F = 3 times 3	**6** = 4 times 6	**:** = 7 times 0
G = 1 time 4	**7** = 5 times 7	**?** = 8 times 0
H = 2 times 4	**8** = 4 times 8	**!** = 9 times 0
I = 3 times 4	**9** = 5 times 9	***** = 1 time *
J = 1 time 5	**0** = 4 times 0	**/** = 2 times *
K = 2 times 5		**(** = 3 times *
L = 3 times 5	**ä** = 1 time 1	**)** = 4 times *
M = 1 time 6	**ö** = 2 times 1	**<** = 5 times *
N = 2 times 6	**ü** = 3 times 1	**=** = 6 times *
O = 3 times 6	**ß** = 4 times 1	**>** = 7 times *
P = 1 time 7		**&** = 8 times *
Q = 2 times 7		**@**= 9 times *
R = 3 times 7		**#** = 1 time #
S = 4 times 7		
T = 1 time 8		
U = 2 times 8		
V = 3 times 8		
W= 1 time 9		
X = 2 times 9		
Y = 3 times 9		
Z = 4 times 9		

Letters are always displayed in upper case. Ä, Ö and Ü always appears in lower case.

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Managing the telephone directory

Selecting entries from the telephone directory

If you want to dial a number from the telephone directory (➜ page 47) or else change (➜ page 37) or delete (➜ page 40) a stored user, you must first select the required entry from the telephone directory.

The letters and special characters printed on the digit keys in the dialling keypad are used for making this selection. The input method, however, differs from normal name entry.

The following overview explains the input method.

	Effect	**Example**
1st key-stroke:	Selects all names in which the first character matches a character specified on the key.	To select the name "Smith", press ⁷ once. All names starting with P, Q, R and S are selected. The first of these entries is displayed. Use ◀ and ▶ to scroll through the selected entries or make a more accurate selection by pressing a second key.
2nd key-stroke:	Selects all names in which the second character matches a character specified on the key.	To select the second letter in the name "Smith", press ⁶ once. This restricts the previous selection to names with an M, N or O in the second position. The first of these entries is displayed. Again, you can scroll through the selection or make a more accurate selection by pressing a third key.
3rd key-stroke:	Selects all names in which the third character matches a character specified on the key.	To select the third letter in the name "Smith", press ⁴ once. This restricts the previous selection to names with a G, H or I in the third position.

The entry "Smith" is thus selected with the digit sequence 7 - 6 - 4 - 8 - 4. The permissible selection is limited to 6 positions. This means that in names containing more than six characters, only the first six positions can be entered. The remaining characters cannot be selected.

This selection method generally produces the required entry after two or three keystrokes. Additional keystrokes are possible (up to 6).

Managing the telephone directory

Saving new users

You can store up to 127 users in the telephone directory.

Telephone directory ▮▭   Press the "Telephone directory" key to activate the telephone directory menu; the LED lights up.

◀▶ and ⓥ   If you have divided your telephone directory into a general and private section, select "General?" or "Private?" or "All?".

▦ and ⓥ   If you selected "Private?" or "All?" and a password is defined (➜ page 16), enter your password.

▶ | 2=new entry? | ⓥ

▦   Enter the directory number of the user. Backspace to delete with ◀.
In the case of users with ISDN numbers, you must always enter the area code (e.g. 089 for Munich) even if the user has the same area code as you.

ⓥ   Conclude your input.

▦   Enter the name of the user. The rules for entering characters via the keypad apply here (➜ page 34). Backspace to delete with ◀.

◀▶ and ⓥ   Choose the section of the telephone directory where you want to store the user: select "Private" or "General". When you press ⓥ, the user is stored.

Changing stored users

You can edit saved user data.

Telephone directory ▮▭   Activate the telephone directory menu.

◀▶ and ⓥ   If you have divided your telephone directory into a general and private section, select "General?" or "Private?" or "All?".

▦ and ⓥ   If you selected "Private?" or "All?" and a password is defined (➜ page 16), enter your password.

▶ | 4=change entry? | ⓥ

▦ or ◀▶ and ⓥ   Enter the name of the user using the digit keys. The digit keys only have to be pressed once (for the name "Smith", for example, 1 x ⑦ for "S", than 1 x ⑥ for "M", etc.).
Or select the user with the scroll keys.
Confirm the selected entry.

ⓥ   Confirm "Change".

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Managing the telephone directory

⌗	Change the directory number of the user. Backspace to delete with ◀. In the case of users with ISDN numbers, you must always enter the area code (i.e. 089 for Munich) even if the user has the same area code as you.
Ⓥ	Conclude your input.
⌗	Change the name of the user. The rules for entering characters via the keypad apply here (➜ page 34). Backspace to delete with ◀.
◀▶ and Ⓥ	Choose the section of the telephone directory where you want to store the user: select "Private" or "General". When you press Ⓥ, the modified user data is stored.
◀▶ and Ⓥ	If you do not want to change any other entries, select "Continue?".

> **ℹ** You can also use the start of a user name to change an entry, and then continue with "Change?".

> **ℹ** If you select a name with the digit keys, similar entries, if any, are displayed in the lower right-hand corner. The display "+1>" means, for example, that a similar name exists. You can scroll to similar names with ◀▶.

Transferring directory numbers to the telephone directory
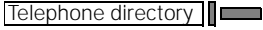
Directory numbers from other memory areas of the Profiset 70isdn can be transferred to the telephone directory. When the telephone is idle, you can transfer directory numbers from:

● the number redial list,

● the call list,

● the answering machine list,

● a destination dialing key.
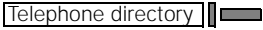
During a call, the directory number of the calling party, which is shown on the display, can be transferred to the telephone directory.

Managing the telephone directory

Transferring directory numbers when the telephone is idle

Telephone directory ▐▬	Activate the telephone directory menu.
◀ ▶ and ⓥ	If you have divided your telephone directory into a general and private section, select "General?" or "Private?" or "All?".
🔢 and ⓥ	If you selected "Private?" or "All?" and a password is defined (➜ page 16), enter your password.
▶ 3=transfer dir. No.? ⓥ	
◀ ▶ and ⓥ	Select the memory area from which a directory number is to be transferred.
◀ ▶ and ⓥ	If you selected "1=call list?", "2=answering machine" or "3=number redial list", select the desired entry from the respective list.
or	
▭▬	If you selected "4=dest. dialing key?", press the desired destination dialing key.
ⓥ	Transfer the directory number displayed. You can also edit the directory number!
🔢	Enter or edit the name of the user. The rules for entering characters via the keypad apply here (➜ page 34). Back-space to delete with ◀.
◀ ▶ and ⓥ	Choose the section of the telephone directory where you want to store the user: select "Private" or "General". When you press ⓥ, the telephone directory entry is stored.

Transferring directory numbers during a call

Telephone directory ▐▬	Activate the telephone directory menu.
◀ ▶ and ⓥ	If you have divided your telephone directory into a general and private section, select "General?" or "Private?" or "All?".
🔢 and ⓥ	If you selected "Private?" or "All?" and a password is defined (➜ page 16): enter your password.
▶ 3=transfer dir. No.? ⓥ	
ⓥ	Transfer the directory number displayed. You can also edit the directory number!
🔢	Enter or edit the name of the user. The rules for entering characters via the keypad apply here (➜ page 34). Back-space to delete with ◀.
◀ ▶ and ⓥ	Choose the section of the telephone directory where you want to store the user: select "Private" or "General". When you press ⓥ, the telephone directory entry is stored.

Managing the telephone directory

Deleting users from the telephone directory

Existing entries can be deleted from the telephone directory.

`Telephone directory` ▌▭   Activate the telephone directory menu.

◀ ▶ and ⓥ   If you have divided your telephone directory into a general and private section, select "General?" or "Private?" or "All?".

▦ and ⓥ   If you selected "Private?" or "All?" and a password is defined (➜ page 16), enter your password.

▶   `5=clear entry?`   ⓥ

▦ or ◀ ▶ and ⓥ   Enter the name of the user using the digit keys. The digit keys only have to be pressed once (for the name "Smith", for example, 1 x ⑦ for "S", than 1 x ⑥ for "M", etc.). Or select the user with the scroll keys. Confirm the selected entry.

ⓥ   Confirm "Clear?". The entry is deleted.

◀ ▶ and ⓥ   If you do not want to delete any more entries, select "Continue?".

> 🛈 If you select a name with the digit keys, similar entries, if any, are displayed in the lower right-hand corner. The display "+1>" means, for example, that a similar name exists. You can scroll to similar names with ◀ ▶.

Clearing the telephone directory

You can clear the entire telephone directory.

▶   `Service?`   ⓥ ▶   `3=local functions?`   ⓥ

④   Press "4".

▦ and ⓥ   With password protection (➜ page 16): enter your password.

▶   `5=clear teleph.directory?`   ⓥ

◀ ▶ and ⓥ   Select "Clear?" and confirm. The entire telephone directory is deleted.

> 🛈 It may take several seconds to clear the telephone directory. The display remains frozen during this time.

Programming keys on the telephone

The programmable keys on your Profiset 70isdn can be assigned frequently dialed directory numbers or frequently used features.

You can also overwrite the default key assignment. The features assigned by default to specific keys can be reassigned at any time to a key of your choice.

Programming keys with directory numbers (destination dialing)

The programmable keys on your Profiset 70isdn can be assigned frequently dialed directory numbers, a prefix, or a direct inward dialing number.

▶ | Service? | ⓥ ▶ | 4=feature keys? | ⓥ

🎛 and ⓥ — With password protection (➜ page 16): enter the password.

Press the key you want to program with the directory number.

◀▶ and ⓥ   or 🎛 — Select "02=destination dialing?" and confirm. Or enter **02**.

🎛 — Enter the desired directory number. Backspace to delete with ◀.

ⓥ — Store the directory number.

If the key is not programmed

If a key is not yet programmed or if the assignment has been deleted, you can program it directly:

Press the key you want to program with the directory number.

🎛 — Enter the desired directory number. Backspace to delete with ◀.

ⓥ — Store the directory number.

> ●
> ℹ️ You can also program a key with a second directory number (➜ page 44 – second level for programmable keys).
>
> You can use the labelling cards supplied to note the names of the users next to the associated keys, for example (➜ page 1).

Programming keys on the telephone

Programming functions onto keys

The programmable keys on your Profiset 70isdn can be assigned frequently used telephone functions.
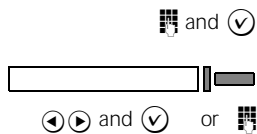
▶ Service?   ⓥ ▶ 4=feature keys?   ⓥ

📱 and ⓥ   With password protection (➜ page 16): enter the password.

▭▬   Press the key you want to program with the function.

◀▶ and ⓥ   or 📱   Select the desired function and confirm with ⓥ or enter the 2-digit menu number (see table). The setting is stored. If you do not want to program any more keys, press ⊗.

No.	Function	No.	Function	No.	Function
02	destination dialing	15	call signal off	28	room echoing
03	number redial	16	toggle	29	room attenuated
04	call list	17	barring functions	40	answ. machine menu
05	forwarding	18	read info text *	41	answ. machine on
06	charge display	19	send info text *	42	answ. machine rec.
07	loudspeaker	20	trace *	43	answ. mach. playback
08	mute	21	conference	44	AM active announ.
09	anonymous	22	extend *	45	AM monitoring
10	autom. call accept.	23	forward call*	46	AM Vip function
11	telephone directory	24	DTMF signals off	69	shift key
12	park/resume	25	status	70	joker
13	room monitoring	26	DTMF/keypad number	71	MWI
14	do not disturb	27	service menu		

* Only available if feature is requested and programmed or if info text is available.

> ℹ️ For information on the application of individual feature keys, see index.

> ℹ️ You can use the labelling cards supplied to note the telephone function next to the associated programmed key (➜ page 1).

Programming keys on the telephone

Clearing key programming

You can clear the key programming which is assigned a directory number or a function. The key is then no longer programmed.

ⓘ `Service?` ⓥ ⓘ `4=feature keys?` ⓥ

▓ and ⓥ   With password protection (➔ page 16): enter the password.

▭▭▭▭▭▭▮▭   Press the key you want to clear.

ⓘ   `01=clear definition?` ⓥ

Configuring the joker key

This key allows you to call up a limited function list (see table ➔ page 44). Select a function from the list and then execute this function once, in the same way as with a permanently programmed key. If you use various features often, this key can be used to activate the most important features more quickly.

ⓘ `Service?` ⓥ ⓘ `4=feature keys?` ⓥ

▓ and ⓥ   With password protection (➔ page 16): enter the password.

▭▭▭▭▭▭▮▭   Press the key which you would like to program as the joker key.

◀▶ and ⓥ   or ▓   Select "70=joker?" and confirm or enter **70**.
If you do not wish to program any additional keys, complete the procedure using ⊗.

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Programming keys on the telephone

Using the joker key
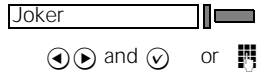
| Joker ▮▬ | Press the programmed joker key. |

◀▶ and ⓥ   or ▦   Select a function that you want to perform once and confirm. Or enter the number of the function directly (see table below). The function is then immediately executed.

No.	Function	No.	Function	No.	Function
03	number redial	13	room monitoring	40	answ. machine menu
04	call list	14	do not disturb	41	answ. machine on
06	charge display	15	call signal off	42	answ. machine rec.
07	loudspeaker	17	barring functions	43	answ. mach. playback
08	mute	24	DTMF signals off	44	AM active announ.
09	anonymous	25	status	45	AM monitoring
10	autom. call accept.	28	room echoing	46	AM Vip function
11	telephone directory	29	room attenuated	69	shift key
12	park/resume				

Second level for programmable keys

You can program directory numbers on the second level. Functions cannot be programmed on the second level, with the exception of the function "DTMF/keypad number".

You have two options for programming keys on the second level.

Option 1

▶ | Service? | ⓥ ▶ | 4=feature keys? | ⓥ

▦ and ⓥ   With password protection (➜ page 16): enter the password.
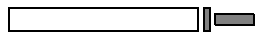
| ▮▬ | Press the key you want to program on the second level twice. The key number appears in the upper right-hand corner of the display, preceded by "^" to indicate the second level. |

ⓥ ▦ ⓥ   Confirm "02=destination dialing?". Enter the desired directory number. Confirm.
or
▶ | 26=DTMF/keypad no.? | ⓥ

Option 2

▶ | Service? | ⓥ ▶ | 4=feature keys? | ⓥ

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Programming keys on the telephone
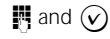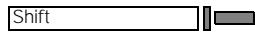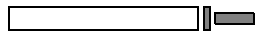
▦ and Ⓥ	With password protection (➔ page 16): enter the password.
Shift ▌▭	Press the Shift key.
▭▭▭ ▌▭	Press the key you want to program on the second level. The key number appears in the upper right-hand corner of the display.
Ⓥ ▦ Ⓥ	Confirm "02=destination dialing?". Enter the desired directory number. Confirm.
or	
▶ 26=DTMF/keypad no.? Ⓥ	

> ⓘ If you press an unassigned destination dialing key in the main menu, the system switches directly to the input function.

Activating keys on the second level
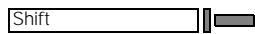
Shift ▌▭	Press this Shift key.
▭▭▭ ▌▭	Press the desired key.
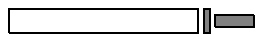
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Outgoing and incoming calls

Outgoing and incoming calls

Calling users

➙   Lift the handset.

▦   Enter the directory number.
The directory number is dialed. When the user answers, the display shows "Consultation?" and possibly the number of the user.

> If "Summation meter on" is activated, the charges or units and their totals are displayed (➙ page 23).

On-hook dialing

You can enter (or change) the directory number and then set up the connection when the handset is on-hook.

▦   Enter the directory number (automatic dialing is possible).
Backspace to delete with ◀.

ⓥ or | Loudspeaker ┃▬   Confirm "Dial?" or press the "Loudspeaker" key.
The directory number is dialed. When the user answers, "Consultation?" appears in the display and possibly the number of the user.

🕻   When the called party answers, you can talk handsfree
or ➙ and 🕻   (➙ page 55)
or lift the handset and speak.

Dialing directory numbers using destination dialing keys (automatic dialing)

Frequently used directory numbers can be dialed quickly and easily using destination dialing keys. This means that you do not have to re-enter the number each time.

Prerequisite: You must have programmed a destination dialing key (➙ page 41).

| Destination dialing ┃▬   Press the "Destination dialing" key. The stored directory number is displayed.

🕻   When the called party answers, you can talk handsfree
or ➙ and 🕻   (➙ page 55)
or lift the handset and speak.

Outgoing and incoming calls

Dialing directory numbers from the telephone directory (automatic dialing)
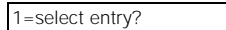
If you stored a user in the your Profiset 70isdn's electronic telephone directory, you can dial this user by entering his/her name.

| Telephone directory | Press the "Telephone directory" key; LED lights up. |

◀ ▶ and ⓥ Select the desired telephone directory division "General?", "Private?" or "All?" and confirm.

▶ | 1=select entry? | ⓥ

▦ or ◀ ▶ and ⓥ Enter the name of the user using the digit keys. The digit keys only have to be pressed once (for the name "Smith", for example, 1 x 7̲ for "S", than 1 x 6̲ for "M", etc.).

Or select the user with the scroll keys.
Confirm the selected entry

ⓥ Confirm "Dial?".

☎ or | Loudspeaker | Lift the handset or press the "Loudspeaker" key to talk handsfree.
The directory number is dialed.

> ℹ️ If you select a name with the digit keys, similar entries, if any, are displayed in the lower right-hand corner. The display "+1>" means, for example, that a similar name exists. You can scroll to similar names with ◀ ▶.

Number redial (automatic dialing)

The last ten numbers dialed are stored automatically. If a user you wish to contact is busy or unreachable, you can initiate number redial the next time you attempt to call, without having to dial the directory number again.
The numbers are sorted in ascending order according to date and time. The last number dialed is thus at the top of the list.

| Number redial | Press the "Number redial" key; LED lights up.
The last directory number dialed is displayed.

◀ ▶ and ⓥ Select the desired directory number and confirm; LED goes out when the call has been successfully set up.
The directory number can be deleted using the backspace key ◀ and re-entered with ▦.

ⓥ Confirm "Dial?".
The directory number is dialed.

Outgoing and incoming calls

or 🕽 and 📞
When the called party answers, you can talk handsfree
(➜ page 55)
or lift the handset and speak.

Accepting a call

The Profiset 70isdn rings with a particular call signal
(➜ page 21). If the caller is an ISDN user, his/her directory
number is shown in the display. The name of the caller is
displayed if it is stored in the Profiset 70isdn telephone di-
rectory.
You can conduct the call via the handset or you can acti-
vate the handsfree function (➜ page 55).
Alternatively, you can reject the call.

Call signal sounds.
The directory number and name of the caller are dis-
played, if possible.

🕽 or ⓥ

or | Loudspeaker | ▮▭

Lift the handset, confirm "Accept call?", or press the
"Loudspeaker" key to talk handsfree; LED lights up.
You are connected to the calling party.

Forwarding a call (Call Deflection)

You can forward incoming calls manually (by pressing a
key) to another directory number immediately.

You must apply to your local network provider for this fea-
ture. Inquire about the respective charges.

▶ | Service? | ⓥ ▶ | 2=configuration? | ⓥ

▦ and ⓥ
With password protection (➜ page 16): enter the pass-
word.

▶ | 09=forward call? | ⓥ
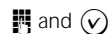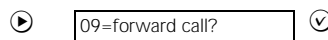
The upper display line indicates whether call forwarding
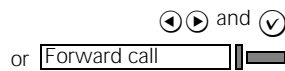is activated or deactivated.

◀ ▶   Select "switch over?".

ⓥ   Save the setting. If call forwarding was previously deacti-
vated, it is now activated. If it was activated, it is now de-
activated.

Outgoing and incoming calls

Forwarding a call

◀▶ and ⓥ   Select "Forward call?" and confirm or press the
"Forward call"; LED flashes.

or Forward call   ▮▬   In this case, you must have programmed a key with the
"forward call" features (➜ page 42).
The directory number of the last call forwarding task is
displayed.
The directory number can be deleted by pressing the
backspace key ◀ and re-entered with ▓.

ⓥ   Confirm; the LED of the "Forward call" key goes out.
The caller was forwarded to the selected number.

Rejecting a call

◀▶ and ⓥ   Select "Reject call?" and confirm.
The caller receives a corresponding message from the
switching system.

The directory number, if known, is transferred to the call
list.

Rejecting all calls (do not disturb)

You can temporarily reject calls to your Profiset 70isdn
while you nonetheless continue to make calls. In this
case, you must have programmed a key with the "Do not
disturb" function (➜ page 42). The setting is active for as
long as the associated LED is lit.
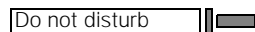
Do not disturb   ▮▬   To activate the function, press the "Do not disturb" key;
LED lights up.
All calls are then rejected. If the "Info text" function is ac-
tivated (➜ page 25), a predefined info text will appear in
the caller's display (if available).
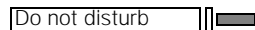
Do not disturb   ▮▬   To deactivate the function, press the "Do not disturb" key
again. LED goes out.
All calls are then signalled again.

Call waiting

You must apply to your local network provider for the "Call
waiting" feature. The "Call waiting permitted" function
must be activated on your Profiset 70isdn (➜ page 26).

While you are conducting a call, a second incoming call is
signalled acoustically and visually. You can then accept,
reject, ignore, or forward this call without disconnecting
the first caller.
Call waiting is not possible during a conference or consul-
tation call. In this case, the caller is rejected.

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Outgoing and incoming calls

Accepting call waiting

You must apply to your local network provider for the "call waiting" feature. Inquire about the respective charges.

📞   You are conducting a call.

The call waiting signal sounds.

ⓥ   Confirm "Accept call?". You are now connected to the second caller. The first caller is automatically put on hold.

> ℹ️   You end the second call and return to the first caller by confirming "disconnect + return?" on the display.

Rejecting call waiting

You must apply to your local network provider for the "call waiting" feature. Inquire about the respective charges.

📞   You are conducting a call.

The call waiting signal sounds.

◀▶ and ⓥ   Select "Reject call?" and confirm. The second caller hears the busy tone.

Forwarding the second caller

You must apply to your local network provider for the corresponding feature (ECT). Your Profiset 70isdn must be configured accordingly (➜ page 26).

📞   You are conducting a call and want to forward the incoming second call to another user.

◀▶ and ⓥ   Select "Forward call?" and confirm or press the "Forward call" key; LED flashes.

or ☐ Forward call ☐▬   The directory number of the last call forwarded is displayed. The number can be deleted by pressing the backspace key ◀ and re-entered with ⬚.

ⓥ   Confirm; the "Forward call" key LED goes out.
The caller has been forwarded to the selected number.

Outgoing and incoming calls

Deactivating the call signal

If you do not wish to be disturbed by incoming calls, you can deactivate the tone ringing. In this case, you must have programmed a key with the "Call signal off" function (➔ page 42). To signal an incoming call, the "Call signal off" key LED flashes.

| Call signal off   ▐▮ ▬ | To activate the function, press the "Call signal off" function; LED lights up. Calls are then signalled by the flashing LED only. |

| Call signal off   ▐▮ ▬ | To deactivate the function, press the "Call signal off" key again; LED goes out. All calls are then signalled by tone ringing again. |

Automatic call acceptance

You can set your Profiset 70isdn to accept calls automatically. In this case, you must have programmed a key with the "Automatic call acceptance" function (➔ page 42). When this function is activated, the "Automatic call acceptance" key LED is illuminated. Calls are switched directly to the loudspeaker after a ring tone. Queued callers are not switched through automatically.

| Autom. call accept. ▐▮ ▬ | To activate the function, press the "Automatic call acceptance" key; LED lights up. Calls are automatically switched to the loudspeaker. The microphone remains switched off! |

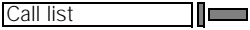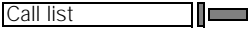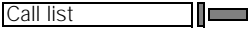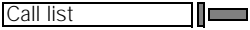| Autom. call accept. ▐▮ ▬ | To deactivate the function, press the "Automatic call acceptance" key again. LED goes out. Calls are then accepted in the usual manner. |

Call list

If a caller does not reach you or if a caller, a queued caller or a callback call is rejected, the relevant directory number is stored in the call list.
Up to 20 different directory numbers are stored, as is the number of retries (max. 99). The most recent entry is displayed first.
If a new entry is recorded in the list, the LED of the "Call list" key flashes to prompt you to view the list. A "Call list" key therefore only exists if it was programmed as a feature key (see ➔ page 41). After the list has been viewed, the LED lights constantly until you have cleared the list again by deleting all numbers.
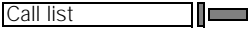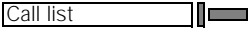
Outgoing and incoming calls

Retrieving entries from the call list

Prerequisite: The call list contains three new entries, for example.

$\widehat{v}$ or

Call list ▮▭

Confirm "Call list (3 new)?" or
press the "Call list" key; LED flashes.
The first entry is displayed, with the number of calls, the directory number, and the list position.

◀ ▶ and $\widehat{v}$

Select "next entry" or "previous entry" and confirm.
The entry is displayed.

◀ ▶ and $\widehat{v}$

To check details for an entry, select "Call details?" and confirm.
Press the stop key ⊗ or $\widehat{v}$ to end the detailed display and return to the call list.

◀ ▶ and $\widehat{v}$ or ⊗

or Call list ▮▭

To exit the call list, select "End?" and confirm, or press the stop key,
or press the "Call list" key; LED lights up.
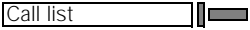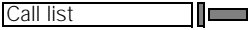
> ⓘ There are no new calls in the call list if "0 new" appears on the display when you check the call list. However, there are still old entries in the list that have not yet been deleted.

Dialing a number from the call list

Prerequisite: an entry is selected in the call list.

◀ ▶ and $\widehat{v}$

Select "Dial call?" and confirm; the LED of the "Call list" key lights up.
The number can be deleted by backspacing with ◀ and can be changed with ▦.

$\widehat{v}$

Confirm "Dial?".
The directory number is dialed.

Clearing a number from the call list

Prerequisite: an entry is selected in the call list.

◀ ▶ and $\widehat{v}$

Select "Clear call?" and confirm.
The entry is deleted and the next number is offered for deletion.

⊗

Press the stop key to return to the call list.

Outgoing and incoming calls

Callback

You must apply to your local network provider for this feature. Inquire about the respective charges.

If you have activated a callback because the party you called was busy, you are automatically called back as soon as the user finishes his/her call.
If you are conducting a call when the callback call is received, you will be called back after you have finished this call.
Your Profiset 70isdn can activate up to five callbacks which are stored in the callback list. You network provider may not authorise all five activatable callbacks, however. In this case, the maximum number of callbacks authorised are activated.

Initiating a callback

Prerequisite: you called a user whose line was busy at the time.

(v)   Confirm "Callback?".
The display shows "Will call back".

Accepting a callback

Prerequisite: you activated a callback.

The call signal sounds.
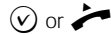
(v) or 📞   Confirm "Accept callback?" or lift the handset.
The desired user is called.

Clearing a callback

Prerequisite: you activated a callback.
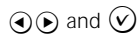
(◀)(▶) and (v)   Select "Clear callback?" and confirm.
The callback is cleared.

Checking the callback list

Prerequisite: you activated a callback.

(◀)(▶) and (v)   Select "Display call(s)" and confirm.
The first callback entry is displayed.

(◀)(▶) and (v)   Select "next entry?" or "previous entry?" and confirm.
The next (if any) or previous callback entry is displayed.

(◀)(▶) and (v) or ⊗   To exit the callback list, select "End?" and confirm or press the stop key.
You have exited the callback list.

Outgoing and incoming calls

Clearing an entry from the callback list

Prerequisite: you activated a callback.

◀ ▶ and Ⓥ　　Select "Display call(s)" and confirm.
The first callback entry is displayed.

◀ ▶ and Ⓥ　　Select "Clear callback?" and confirm.
The selected callback entry is deleted and the next call-back is offered for deletion.

⊗　　Press the stop key to exit the callback list.

Ending a call – disconnecting
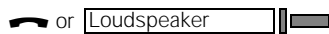
When you actively close the connection, the telephone returns to the idle state and displays the basic menu. A caller who was waiting during a call is now signalled like a normal incoming call.

☎ or Loudspeaker ▐▬　　Replace the handset or press the "Loudspeaker" key (if activated); LED goes out.

Convenient and secure telephone communication

Activating/deactivating open listening

If those present in your room wish to listen to your conversation, you can switch on the loudspeaker.
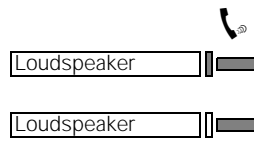
📞   You are conducting a call.

| Loudspeaker | ▯▭ | To switch on the loudspeaker press the "Loudspeaker" key; LED lights up.

| Loudspeaker | ▯▭ | To switch off the loudspeaker press the "Loudspeaker" key again; LED goes out.

Handsfree talking

Even when the telephone is on-hook you can converse using the handsfree feature on Profiset 70isdn (see also "On-hook dialing" ➜ page 46). In this case, the microphone and loudspeaker are switched on.

Handsfree talking before the connection is established

You can converse handsfree immediately the call is accepted.

Prerequisite: the handset is on-hook.
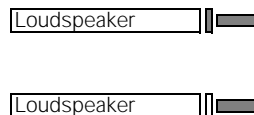
| Loudspeaker | ▯▭ | To activate handsfree mode press the "Loudspeaker" key; LED lights up. The loudspeaker and microphone are switched on.

| Loudspeaker | ▯▭ | At the end of the call, press the "Loudspeaker" key again; LED goes out.
The connection is cleared down, the loudspeaker and microphone are switched off.

Handsfree talking when a connection is open

It is possible to switch to handsfree mode while you are conducting a call via the handset.
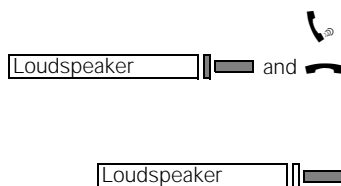
📞   You are conducting a call.

| Loudspeaker | ▯▭ and ☏ | To activate handsfree mode, hold down the "Loudspeaker" key whilst you replace the handset; the loudspeaker LED lights up.
The loudspeaker and microphone are switched on.

| Loudspeaker | ▯▭ | At the end of the call, press the "Loudspeaker" key; the loudspeaker LED goes out.
The connection is cleared down, the loudspeaker and microphone are switched off.

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Convenient and secure telephone communication

> **ⓘ** You can adjust the loudspeaker volume with the $\oplus$ and $\ominus$ keys during a call with the handset on-hook.
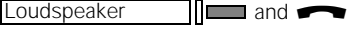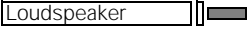
Switching from handsfree mode to open listening

Prerequisite: you are conducting a call, the handset is on-hook, and the loudspeaker and microphone are switched on.

Lift the handset. The microphone and loudspeaker are switched off.

`Loudspeaker` ▯▭ Press the Loudspeaker key; LED lights up.

To end the call, replace the handset. The connection is cleared down and the loudspeaker is switched off.

Switching from open listening to handsfree mode

Prerequisite: you are conducting a call, the handset is lifted and the loudspeaker switched on; LED lights up.
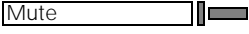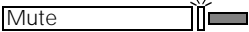
`Loudspeaker` ▯▭ and ☎ To activate handsfree mode, hold down the "Loudspeaker" key whilst you replace the handset; the loudspeaker LED lights up.
The microphone is switched on.

`Loudspeaker` ▯▭ At the end of the call, press the "Loudspeaker" key; LED goes out.
The connection is closed, the loudspeaker and microphone are switched off.

Switching to mute (consultation in the room)

If there are times when you do not want your calling party to hear your conversation, e.g. if there is a consultation in the room, you can switch your telephone to "mute". The following are then switched off, depending on the mode of operation:

● the handset microphone, or

● the handsfree conversing microphone.

Prerequisite: you have programmed a "Mute" function key (➜ page 42).

📞 You are conducting a call.

`Mute` ▯▭ To activate the mute function press the "Mute" key; LED flashes.
The microphone is switched off.

`Mute` ☀▯▭ To deactivate the mute function press the "Mute" key again; LED goes out.
The microphone is switched on again.

Convenient and secure telephone communication

Parking a call

You can temporarily park a call in order to

- reactivate it at a later stage,

- resume it at another telephone,

- unplug your telephone from one socket and plug it into another.

The telephone must not be parked for more than three minutes, as otherwise the call will be disconnected.

You are conducting a call.

Select "Park?" and confirm.

Enter the connection code, e.g. 1 when prompted to in the display. The connection code is a number under which the call can be suspended and later resumed. The permitted values are 1 to 99 or "none" (no input).

Confirm and replace the handset.

> You can program a "Park/resume" function key (➜ page 42).

Resuming a parked call

You can resume a parked call from your own telephone or from another telephone.

Prerequisite: a call is parked and you are not conducting a call.
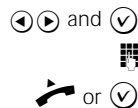
Select "Resume?" and confirm.

Enter the assigned connection code if necessary.

Lift the handset or confirm.
You are reconnected to the parked caller.

Convenient and secure telephone communication

Charge display

You must apply to your local network provider for this feature (premium rate access). There are two methods of transferring call charge information:

1. Call charge information is only transferred at the end of the call. If you program a key for displaying charges, you can extend the display duration while the call charge information is being displayed.

2. Call charge information displayed during and at the end of a call. The call charge information is automatically displayed during a call for approx. 3.5 seconds for each new call charge unit. If you program a key for displaying charges, you can query charges at any time.
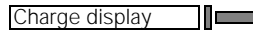
| Charge display   ▌▬ | Press the "Charge display" key.

> ℹ The "Charge display" key can be pressed to query the charges even if "Charge display off"
> (➔ page 23) has been programmed.

Tracing a call (MCID)

You can find out the origin of a call, in order for example to identify a malicious caller. You must apply to your local network provider for this feature. Your telephone must be configured accordingly, as otherwise the service will be rejected with the advisory message "Identification not possible".
You can use this function in the following situations:

● During a call.

● Call signal is heard, you lift the handset, the caller has already hung up. You have 20 seconds after the caller replaced the handset in which to initiate call tracing.

● At the end of the call. The anonymous caller hangs up. You have 30 seconds in which to initiate call tracing.
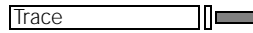
On no account must you replace the handset until the identification is concluded.

You can initiate caller identification if you have programmed a "Trace" function (➔ page 42).

☏ Lift the handset.

Convenient and secure telephone communication

Trace ▯▭	Press the "Trace" key; LED flashes. If identification is possible, the message "Identification initiated" appears in the display. If identification was not possible or if the call tracing function was initiated too late, the message "Identification not possible" is displayed.

After the information has been displayed, you can replace the handset.

> ℹ The actual identification is performed by the network provider. The calling party's number, the time and the date are recorded. A printout of the list is issued later.

Locking your telephone

You can lock your Profiset 70isdn against unauthorised use:

- **Direct station selection (babyphone)** allows you to **dial a preset** direct station selection number (programming direct station selection: ➔ page 27, activating direct station selection: ➔ page 28).

- **Total lock** allows you to dial two emergency call numbers (programming emergency numbers: ➔ page 28, activating a total lock: ➔ page 29).

- **Dial restriction with lockout numbers**. You can lock up to nine different number ranges (➔ page 29). This means that you cannot dial any number that begins with the number sequence specified in the lockout number list (e.g. international numbers, service numbers, etc.).

Only direct station selection numbers can be dialed (Babyphone)

Prerequisite: direct station selection is programmed and activated (➔ page 28).

"Direct stn selection" appears in the status line of the display.
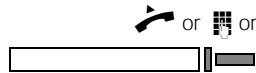
☎ or ▦ or ▯▭	Lift the handset or press any key on the keypad or any function key. The programmed direct station selection number is dialed.

Programmed lockout numbers cannot be dialed

Prerequisite: The lockout numbers are programmed and the lock is activated.
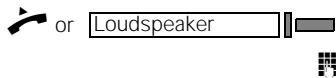
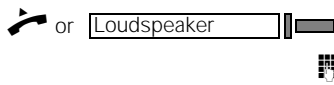| ☎ or Loudspeaker ▯▭	Lift the handset or press the "Loudspeaker" key.
▦	Enter a directory number which is not a lockout number.

Convenient and secure telephone communication

> 🛈 If you enter a lockout number, an acoustic alarm sounds and the display shows "Number barred".

Only emergency numbers can be dialed (total lock)

Prerequisite: the emergency numbers are programmed and a total lock is activated.

➤ or Loudspeaker ▭▭   Lift the handset or press the "Loudspeaker" key.

▦   Enter the emergency number (e.g. 110).

> 🛈 When the first incorrect digit is entered or if an automatic dialing key is pressed, an acoustic alarm sounds and the display shows "Telephone barred".

Info texts

You must apply to your local network provider for this feature. Inquire about the respective charges.

ISDN terminals can exchange short info texts during connection setup and cleardown. A range of fixed, unmodifiable info texts is available.

If permitted, info texts are sent in the following situations:

● With an outgoing call (if you are the caller),

● With an incoming call (if you are being called),

● With an incoming call when "do not disturb" is activated (see ➜ page 49),

● With an incoming call whilst you are already on a call and call waiting is deactivated (see ➜ page 49),

● With an incoming call which you reject (see ➜ page 49),

● At the end of the call, i.e. after replacing the handset or deactivating the loudspeaker.

The following texts are available:

● Please call back tomorrow

● I will call back later

● I will call again tomorrow

● I am currently on vacation

● Appointment time OK.

Convenient and secure telephone communication

Sending info texts

Prerequisite: "info text" is permitted (➔ page 25).

▶ | Service? | ⓥ ▶ | 4=feature keys | ⓥ ▶ | 19=send info text | ⓥ
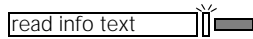
◀ ▶ and ⓥ   Select and confirm info text.

Reading info texts

The LED for the "read info text" feature key flashes when an info text is received (a programmed function key is a prerequisite ➔ page 42). The message "Info" is displayed.

Prerequisite: "info text" is permitted (➔ page 25).

| read info text | ▮▬ | Press the "info text" key. The info text is displayed two lines at a time. In the case of long directory numbers, the info text is represented as a run-on text.

DTMF signalling

When a connection is set up, you can use the keypad to transmit DTMF signals (tones in dual-tone multifrequency), e.g. to control an answering machine remotely.

Prerequisite: a connection is set up.

▦   Enter the control digits. The digits entered appear on the display preceded by "D:" for several seconds.

Keypad signalling

Instead of DTMF signalling, keypad information elements (IE) can also be transmitted, e.g. in order to activate CENTREX features (➔ page 63).

Since DTMF signalling is set by default for your telephone, it must first be deactivated. To do this, program a feature key (➔ page 42) with the function "24=DTMF signals off?".

Prerequisite: a line has been seized, a connection set up, or an existing connection has not yet been cleared down.
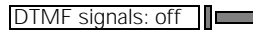
| DTMF signals: off | ▮▬ | Press the programmed feature key "DTMF signals: off".

▦   Enter control codes. The digits entered are shown on the display.

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Convenient and secure telephone communication

Reactivate DTMF signalling
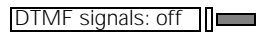
DTMF signals: off   ▯▭   Press the illuminated feature key "DTMF signals: off".

Distinction between DTMF and keypad signalling

The following table illustrates the difference in the signals produced when the keys on the keypad are pressed in DTMF signalling mode (➔ page 61) and keypad signalling mode (➔ page 61). The table takes into account the various system configurations which support Profiset 70isdn operation.

Type of signalling with system configuration:	Keys transmit:	DTMF/keypad number feature keys:
DTMF signalling with main station	DTMF signals	Character string in DTMF
Keypad signalling with main station	Keypad information element (IE)	Character string as keypad information elements (IE)
DTMF signalling with CENTREX	DTMF signals	Character string as keypad information elements (IE)
Keypad signalling with CENTREX	Keypad information element (IE)	Character string as keypad information elements (IE)
DTMF signalling with S_0 extension*	DTMF signals plus called party number (IE)	Character string as DTMF signals plus called party number (IE)
Keypad signalling with S_0 extension*	Called party number (IE) only	Character string as called party number only
DTMF signalling with point-to-point configuration	DTMF signals	Character string in DTMF
Keypad-signalling with point-to-point configuration	Keypad information element (IE)	Character string as keypad information elements (IE)

* "S_0 extension" refers to Siemens 8818/A6 systems and the Octopus systems available from Deutsche Telekom AG.

Convenient and secure telephone communication

CENTREX features

CENTREX (Central Office Exchange) refers to virtual ISDN PBXs. Although the public ISDN network is used as the line network in this case, the usual PBX features are supported.

CENTREX features can only be accessed if you are a CENTREX group member. If you are not a CENTREX group member, the features described here do not apply.

Message Waiting Indication (MWI)

Profiset 70isdn signals the arrival of CENTREX voicemails. In order to use this feature, a programmable key must be assigned the function "71=MWI" (➜ page 42). This programs the key with the directory number of the mailbox to which you have access.

When a voicemail is received, the LED assigned to the "MWI" feature key flashes.
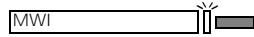
Press the "MWI" key. The directory number of the mailbox is dialed. The voicemails are then played back.

Calling Name Identification (CNI)

For incoming calls from other CENTREX users, Profiset 70isdn displays both the name and directory number of the caller. The directory number is displayed first, followed by the name.

A maximum of 24 characters can be displayed, additional characters are not displayed if the name exceeds this length.

The name is also entered into the call list (➜ page 51).

Distinctive ringing

Profiset 70isdn uses different call signals for external calls and internal CENTREX calls. The following default call signals are used:

External calls
Tone (1 second)

etc.

Pause (4 seconds)

Internal calls
Tone repeated twice (0.3 seconds each) at 0.4-second intervals

etc.
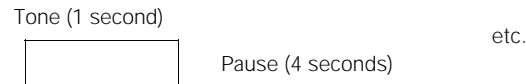
Pause (4 seconds)
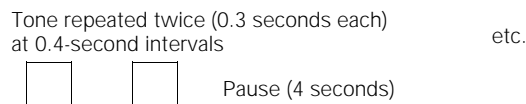
Convenient and secure telephone communication

**Internal calls
(country-specific version set to "Italian")**

Tone (0.6 seconds) followed tone (0.2 seconds)
at 0.2-second intervals   etc.

Pause (4 seconds)

Transmitting keypad information elements (IE) via the keypad

In order to enter keypad information elements for CEN-TREX features, CENTREX call processing must be set (➔ page 17).

Because DTMF signalling is the default setting for Profiset 70isdn, this must first be deactivated. To do this, a key must be programmed with the function "24=DTMF signals off?" (➔ page 42) .

Prerequisite: a line has been seized, a connection set up, or an existing connection has not yet been cleared down.

DTMF signals: off   Press the programmed feature key "DTMF signals: off".

Enter keypad information elements. The digits entered are shown on the display.

Transmitting character strings as keypad information elements (IE) using a feature key

In order to transmit keypad information elements for CEN-TREX features using feature keys, CENTREX call processing must be set (➔ page 17).

The key which you wish to use for transmitting keypad information elements must be programmed with the required character string. This is achieved using the function "26=DTMF/keypad number?" (➔ page 42).

Prerequisite: a line has been seized, a connection set up, or an existing connection has not yet been cleared down.

DTMF/keypad number   Press the programmed feature key DTMF/keypad number.

Forwarding calls

Call forwarding

You can forward calls to another telephone for each directory number of your telephone.

You must apply to your local network provider for this feature. Inquire about the respective charges.

There are 3 forwarding modes:

● Immediately: The call is forwarded immediately, no signal.

● Deferred: The call is forwarded after 20 seconds.

● If busy: The call is forwarded if the line is busy.

Several forwarding modes can be active for each multiple subscriber number (MSN) (e.g. the "if busy" forwarding number may be different to the "deferred" number).

Programming and activating call forwarding for MSN 1–3

MSN 1 to MSN 3 are intended for Profiset 70isdn; in this case only the telephone service is rerouted. Connection requests with different service identifiers, e.g. data or fax, are not forwarded.

Prerequisite: the "Forwarding" menu item is activated (➔ page 26).

◀ ▶ and ✔ Select "Forwarding?" and confirm.

◀ ▶ and ✔ Select the directory number which is to be forwarded and confirm (=on). Forwarding is only activated for this number.

◀ ▶ and ✔ Select forwarding mode "immediately", "deferred" or "if busy" and confirm.
The last call forwarding number is prompted.
The number can be deleted by backspacing with ◀ and edited with ▦.

✔ Confirm.
Call forwarding is active.

> ℹ️ The call charges incurred in connection with call forwarding (e.g. car telephone/mobile phone) are not displayed on the Profiset 70isdn nor registered on the summation meter.
> The caller only pays for the connection between his or her phone and the initial destination; the remainder of the connection must be paid for by the party who has activated call forwarding.

Forwarding calls

> ℹ️ You cannot change an MSN if forwarding is active for it (see ➜ page 18).

> ℹ️ Details about programmed forwarding can be queried at any time by selecting the entry "Status" in the service menu.

Programming and activating call forwarding for other devices

If other devices that cannot program call forwarding, e.g. fax or answering machine, are operated on the same S_0 bus, you can program call forwarding for "all services" for the bus's call number (MSN).

Prerequisite: the "Forwarding" menu item is activated (➜ page 26).

◀ ▶ and Ⓥ   Select "Forwarding?" and confirm.

◀ ▶ and Ⓥ   Select "4=others?" and confirm.
The directory number for "others?" is preset with the last number.
The number can be deleted by backspacing with ◀ and edited with ⊞.

Ⓥ   Confirm.

◀ ▶ and Ⓥ   Select the forwarding mode "immediately", "deferred" or "if busy" and confirm.
The last call forwarding number is prompted.
The number can be deleted by backspacing with ◀ and edited with ⊞.

Ⓥ   Confirm.
Call forwarding is active for all calls under MSN 4.

> ℹ️ The call number "4=other?" must differ from the call numbers used for MSN1 to MSN3 that you set in Profiset 70isdn (➜ page 18).

Changing active call forwarding

Prerequisite: call forwarding is active.

Prerequisite: The "Forwarding" menu item is activated (➜ page 26).

Ⓥ   Confirm "Forwarding?".

◀ ▶ and Ⓥ   Select the number for which forwarding is to be changed (=on). Forwarding is active for this number.

◀ ▶ and Ⓥ   Select "Destination new/change?" and confirm.

Forwarding calls

◀ ▶ and ✔	Select a new forwarding mode "immediately", "deferred" or "if busy" and confirm. The active call forwarding number is prompted.
◀ and 🔢	The number can be deleted by backspacing with ◀ and edited with 🔢.
✔	Confirm. Call forwarding is active to the new destination.

Deactivating an active call forwarding

	Prerequisite: call forwarding is active and the "Forwarding" menu item is activated (➜ page 26).
✔	Confirm "Forwarding?".
◀ ▶ and ✔	If your telephone is programmed with several directory numbers, select the number for which call forwarding is to be deactivated and confirm (on=). Forwarding is activated for this number.
◀ ▶ and ✔	Select "Deactivate?" and confirm.
◀ ▶ and ✔	Select one or all forwarding modes active for this number and confirm. Call forwarding is deactivated.

Forwarding calls

Rapid activation/deactivation of call forwarding

There is a special speed switching function for the rapid activation and deactivation of call forwarding, enabling forwarding to be initiated or cancelled using preprogrammed parameters.
The precondition for this function is that call forwarding has already been programmed for the individual codes in the conventional manner.

Prerequisite: the "Forwarding" menu item is activated (➔ page 26).

Activation:

ⓐⓑ and ⓥ   Select "Forwarding?" and confirm.

1️⃣, 2️⃣, 3️⃣ or 4️⃣   Program call forwarding for 1=first, 2=second, 3=third, 4=another number (MSN).
Call forwarding is activated with all parameters.

Deactivation:

Prerequisite: call forwarding is active.

ⓥ   Confirm "Forwarding?".

1️⃣, 2️⃣, 3️⃣ or 4️⃣   Enter number for 1=first, 2=second, 3=third, 4=another number (MSN).
Call forwarding is deactivated with all parameters.

> 🛈 The fastest way to activate/deactivate call forwarding is by programming a key with the "Forward" function (➔ page 42).

Deactivating all call forwardings

Prerequisite: call forwarding is active and the "Forwarding" menu item is activated (➔ page 26).

ⓥ   Confirm "Forwarding?".

0️⃣ or   Enter number for "0=forwarding(s) off?" or select and
ⓐⓑ and ⓥ   confirm "0=forwarding(s) off?".
All call forwardings are deactivated.

Calls involving two or more parties

Calling the second party (consultation)

You can consult with another party in the course of a call. The first call is put on hold during the consultation call.

Prerequisite: you are conducting a call.

$\textcircled{v}$ Confirm "Consultation".

▦ and $\textcircled{v}$ Enter the number of the party to be consulted and confirm "Dial?".

If you hear the ringing tone:

When the other party answers, put the first caller on hold.

Conduct your consultation call.

If the other party does not answer:

$\textcircled{\triangleleft}\textcircled{\triangleright}$ and $\textcircled{v}$ Select "Disconnect + return" or "Dial again" and confirm.

If you hear the busy tone:

$\textcircled{\triangleleft}\textcircled{\triangleright}$ and $\textcircled{v}$ Select "Callback" or "No callback" and confirm.

Ending a consultation

When you end a consultation, you return to the caller on hold.

Prerequisite: you are conducting a consultation call.

$\textcircled{\triangleleft}\textcircled{\triangleright}$ and $\textcircled{v}$ Select "Disconnect + return?" and confirm.
The consultation call is disconnected and you return to the caller on hold.

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Calls involving two or more parties

Switching between two calling parties (toggling)

In the course of a consultation call you can alternate (toggle) between the other two parties. The party who is waiting cannot listen in.

You can program a "Toggle" key if you toggle frequently (➜ page 42).

Prerequisite: you are conducting a consultation call.

◀ ▶ and ⓥ or

| Toggle | ▌▬ |

Select "Toggle?" and confirm or press the programmed "Toggle" key.
User 2 is put on hold. The call is switched to user 1.

ⓥ or

| Toggle | ▌▬ |

Confirm "Toggle?" or press the programmed "Toggle" key.
User 1 is put on hold. The call is switched to user 2.

> The directory numbers of the parties are only displayed if they are known. Otherwise, user 1 and/or user 2 is displayed. Directory numbers are not displayed, for example, in the case of incoming calls with number suppression or calls from analog stations.

Three-party conference

In a conference, all parties can listen in and talk to each other.

You must apply to your local network provider for this feature. Inquire about the respective charges.

In the course of a consultation call you can connect yourself to the other two parties and set up a three-way conference.
In the course of a normal call you can convene a conference with a third party.

The "Transfer call" function must be activated in accordance with the configuration in order to transfer calls (menu: service → configuration → conference).

You can program a "Conference" key if you frequently conduct conference calls (➜ page 42).

Calls involving two or more parties

Switching from a consultation call to a conference

Prerequisite: you are conducting a consultation.

◀ ▶ and Ⓥ or

| Conference | ▐▌▬ |

Select "Conference?" and confirm or press the Conference key; LED lights up.
The waiting party and the "active" call party are connected in a conference call.

Initiating a conference

Prerequisite: you are conducting a call.

◀ ▶ and Ⓥ or

| Conference | ▐▌▬ |

Select "Conference?" and confirm or press the Conference key; LED flashes.

▦ Enter the number of the user you want to include in the conference.

Ⓥ Confirm "Dial?".

Ⓥ When the called party answers, confirm "Conference?".
The "Conference" key LED lights up.
The waiting party and the "active" call party are connected in a conference call.

Ending a conference

You can disconnect one user or toggle between the two parties.
To terminate the conference completely, replace the handset.

Ending a conference by disconnecting a party

Prerequisite: you are conducting a conference.

Ⓥ Confirm "Disconnect + return?".

◀ ▶ and Ⓥ Select the party you want to disconnect and confirm.
The conference is ended, the selected party is disconnected, and you can continue talking to the remaining party.

> ⓘ The directory numbers of the parties are only displayed if they are known. Otherwise, user 1 and/or user 2 is displayed. Directory numbers are not displayed, for example, in the case of incoming calls with number suppression or calls from analog stations.

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Calls involving two or more parties

Ending a conference and toggling between parties

Prerequisite: you are conducting a conference.

④ ⑥ and Ⓥ or

| Toggle | ‖━ |

Select "Toggle?" and confirm or press the Toggle key. The Toggle key must be programmed (➜ page 42)

④ ⑥ und ━

Select the caller you want to switch to and confirm. The conference is ended, the call switches to the selected party, and the other caller is put on hold.

> ℹ The directory numbers of the parties are only displayed if they are known. Otherwise, user 1 and/or user 2 is displayed. Directory numbers are not displayed, for example, in the case of incoming calls with number suppression or calls from analog stations.

Exiting from a conference
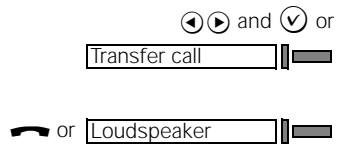
Prerequisite: you are conducting a conference. Inquire about the respective charges.

④ ⑥ and Ⓥ or

| Transfer call | ‖━ |

Select "Transfer call?" and confirm or press the programmed "Transfer call" key (programming keys ➜ page 42).
The other parties are connected to each other.

━ or | Loudspeaker | ‖━ |

Replace the handset or press the "Loudspeaker" key.

Calls involving two or more parties

Call transfer

You must apply to your local network provider for this feature. Inquire about the respective charges.
Your telephone must be configured accordingly.

In the course of a call you can call up another user and then transfer the call to this third party.
During a conference or consultation call you can leave the call. The other two parties remain connected to each other.

The "Call transfer" function must be activated in accordance with the configuration in order to be able to transfer calls (menu: service → configuration → call transfer).

Calling a second party and transferring the call

Prerequisite: you are conducting a call.
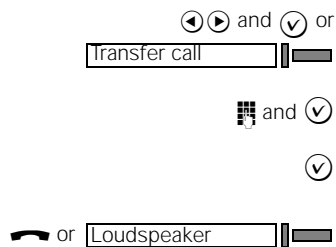
ⓐⓑ and ⓥ or
| Transfer call | ▐▬ |

Select "Transfer call?" and confirm or press the programmed "Transfer call" key (programming keys ➔ page 42); LED flashes.

▦ and ⓥ

Enter the number of the party to whom the call is to be transferred and confirm "Dial?".

ⓥ

When the party answers, confirm "Transfer call?".
The callers are connected to each other; LED goes out.

▬ or | Loudspeaker | ▐▬ |

Replace the handset or press the "Loudspeaker" key.

Transferring a call during a consultation

Prerequisite: you are conducting a consultation.
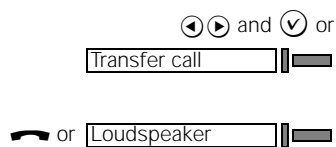
ⓐⓑ and ⓥ or
| Transfer call | ▐▬ |

Select "Transfer call?" and confirm or press the programmed "Transfer call" key (programming keys ➔ page 42).
The two parties are connected to each other.

▬ or | Loudspeaker | ▐▬ |

Replace the handset or press the "Loudspeaker" key.

Transferring a call during a conference (exiting a conference)
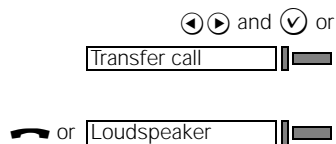
Prerequisite: you are conducting a conference.

ⓐⓑ and ⓥ or
| Transfer call | ▐▬ |

Select "Transfer call?" and confirm or press the programmed "Transfer call" key (programming keys ➔ page 42).
The two parties are connected to each other.

▬ or | Loudspeaker | ▐▬ |

Replace the handset or press the "Loudspeaker" key.

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Answering machine

Answering machine

The Profiset 70isdn answering machine offers the following possibilities:

● Callers can leave messages on your answering machine during your absence. Announcements requesting that the caller leave a message can be recorded for this purpose. You can set the announcement that the caller receives by assigning a multiple subscriber number (MSN) number to a particular announcement.

● If you do not want callers to leave a message, you can also simply leave an announcement informing callers of your absence.

● You can select to listen to either all messages or just new messages. You can also scroll forward and backward through the messages. You can delete individual messages or all messages in one go.

● The time and date is automatically recorded for each incoming message and can be called up again when you play back the message.

● You can record telephone calls.

● You can record personal infos with messages/memos for yourself or other users.

● Most of the answering machine's operating functions are also available via the keypad and by remote operation via DTMF signalling from another telephone.

● You can use the Profiset microphone and loudspeaker via remote operation for room monitoring.

● You can check memory assignment at any time.

The answering machine digitally records announcements and messages in its memory.

Answering machine

Operating modes

The answering machine has two operating modes:

- Operation with recording: callers hear an announcement after which they can leave a message.

- Operation without recording: callers hear an announcement but cannot leave a message.

You can record an additional final announcement for operation with recording. The final announcement is played for the caller if the maximum time for recording a message is reached.

In total, four memory slots are available for texts. You can assign announcements (for operation with recording), info announcements (for operation without recording) and one final announcement to these memory slots.

You can thus record two different announcements, one info announcement and one final announcement, for example.

You can set the maximum length for announcements.
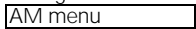
> A **typical announcement** is, e.g.: "You have reached Mr. White. I am not at home right now. Please leave a message after the tone."
>
> A **typical final announcement** is, e.g.: "The maximum time allowed for your message has elapsed. Thank you for calling."
>
> A **typical info announcement text** is, e.g.: "You have dialed 1 2 3 4 5 6 7. Please call back tomorrow."

Answering machine menu

The Profiset 70isdn answering machine menu can be activated by pressing the AM menu key.

The memory available is displayed when you press this key. Unavailable memory is depicted as dark boxes in the upper display line. The more dark boxes are displayed, the less memory is available.

The operating sequences displayed in this chapter can only be activated from the answering machine menu.

Answering machine

The following functions are available in the menu:

Answering machine menu

1=status? *
2=recordings?
3=edit announcements?
4=clear all?
5=settings?
6=switch AM?

* only available if answering machine settings were programmed.

** only available while processing recordings.

recordings?
1=back?
2=playback/pause?
3=forward?
4=clear?
5=stop? **
6=record/pause?
7=select call?
8=details?
9=fast forward?

edit announcements?
1=text1?
2=text2?
3=text3?
4=text4?

text1?
1=announcement?
2=info announcement?
3=final announcement?

settings?
1=active announcement?
2=number of calls?
3=monitor?
4=message length?
5=voice quality?
6=rec. sorting?
7=VIP function?
8=announ. time stamp?

active announcement?
1=MSN1?
2=MSN2?
3=MSN3?

Answering machine

Activating/deactivating the answering machine

An announcement, an info announcement or a time control must be activated before you can activate the answering machine. If this is not the case, the dialog "Edit 1=text1?" automatically appears when you activate the answering machine. You can then record an announcement or an info announcement.

Activating the answering machine

| Answ. machine on ▯▭ | To activate the answering machine, press "Answ. machine on", LED lights up.
Insufficient recording memory is indicated by an unlit or rapidly flashing LED after activation. |

Deactivating the answering machine

| Answ. machine on ▯▭ | To deactivate the answering machine, press "Answ. machine on" again, LED goes out. |

Recording an announcement

To record an announcement, select one of the four memory slots (text 1 to text 4). The announcements can be recorded using the microphone or handset. An existing announcement is thus deleted.

| AM menu ▯▭ | Activate the answering machine menu. |

◀▶ | 3=edit announcement? ✓

▦ and ✓ | With password protection (➜ page 16): Enter the password.

▶ | 1=text1? | ✓ ▶ | 1=announcement? | ✓ ▶
or
2=text2? | ✓
or
3=Text3? | ✓
or
4=text4? | ✓

◀▶ | 6=record/pause? | ✓

✆ | The display prompts you to record your announcement. Lift the handset. Record your announcement after the tone.

Answering machine

or ⓥ   Using the handsfree function: record your announcement after the tone.

To end recording, press ⑤ or confirm "5=Stop?".

> 🛈 You can overwrite an announcement with a new recording at any time.

> 🛈 You can program an "AM active announ." key for recording announcements (➜ page 42).

Recording an info announcement

To record an info announcement, select one of the four memory slots (text 1 to text 4). The info announcements can be recorded using the microphone or handset. An existing info announcement is thus deleted.
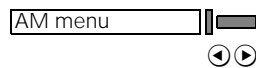
| AM menu | ▌▬ | Activate the answering machine menu.

◀▶ | 3=edit announcements? | ⓥ
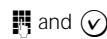
🎛 and ⓥ   With password protection (➜ page 16): Enter the password.

▶ | 1=text1? | ⓥ ▶ | 2=info announcement? | ⓥ ▶
or
| 2=text2? | ⓥ
or
| 3=text3? | ⓥ
or
| 4=text4? | ⓥ

◀▶ | 6=record/pause? | ⓥ

☏   The display prompts you to record your info announcement. Lift the handset. Record your info announcement after the tone.

or ⓥ   Using the handsfree function: record your info announcement after the tone.

To end recording, press ⑤ or confirm "5=stop?".

> 🛈 You can overwrite a recorded info announcement with a new recording at any time.

Answering machine

> ℹ️ You can also program an "AM active announ." key for recording info announcements (➜ page 42).

Recording a final announcement

To record a final announcement, select one of the four memory slots (text 1 to text 4). A final announcement is not necessary for the answering machine to operate properly. You cannot assign more than one final announcement to a memory slot.

| AM menu ▯▭ | Activate the answering machine menu. |

◀▶ | 3=edit announcements? | ✓

🎹 and ✓   With password protection (➜ page 16): enter the password.

▶ | 1=text1? | ✓ ▶ | 3=final announcement? | ✓

or

| 2=text2? | ✓

or

| 3=text3? | ✓

or

| 4=text4? | ✓

◀▶ | 6=record/pause? | ✓

☎   The display prompts you to record your final announcement.
Lift the handset. Record your message after the tone.

or ✓   Using the handsfree function: record your final announcement after the tone.

To end recording, press 5 or confirm "5=stop?".

> ℹ️ You can overwrite a recorded final announcement with a new recording at any time.

> ℹ️ You can program an "AM active announ." key for recording final announcements (➜ page 42).

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Answering machine

Listening to announcements and info announcements

You can listen to recorded announcements and info announcements at any time. The announcement is played back via the loudspeaker.
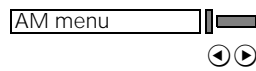
| AM menu ▐▭ | Activate the answering machine menu. |

◀▶ | 3=edit announcement? | Ⓥ

▦ and Ⓥ   With password protection (➜ page 16): enter the password.

▶ | 1=text1? | Ⓥ ▶ | 1=announcement? | Ⓥ ▶
or   or
| 2=text2? | Ⓥ | 2=info announcement? | Ⓥ
or   or
| 3=text3? | Ⓥ | 3=final announcement? | Ⓥ
or
| 4=text4? | Ⓥ
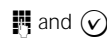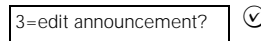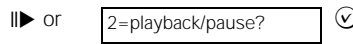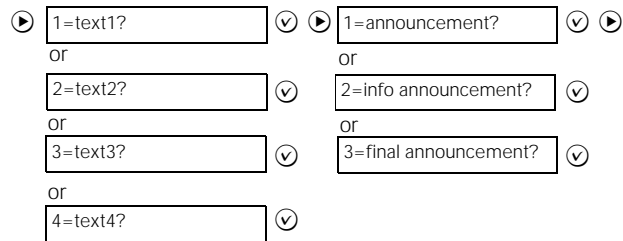
▐▶ or | 2=playback/pause? | Ⓥ

To listen to your recording, press ⟨2⟩ or confirm "2=playback/pause?".
The recording is played back.

Activating an announcement

The answering machine can be activated by pressing "Answering machine on/off". If you have not yet assigned an announcement or info announcement to an MSN, this assignment is automatically requested the first time the answering machine is activated.

Before the operating mode is selected, the system queries the MSN number(s) to which the answering machine is to be assigned. One active announcement/info announcement can be selected for each MSN.
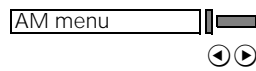
| AM menu ▐▭ | Activate the answering machine menu. |

◀▶ | 5=settings? | Ⓥ
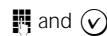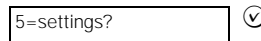
▦ and Ⓥ   With password protection (➜ page 16): enter the password.

Answering machine

▶ | 1=active announcement? | Ⓥ ▶ | 1=MSN1? | Ⓥ ▶

or

| 2=MSN2? | Ⓥ

or

| 3=MSN3? | Ⓥ

| 1=text1? | Ⓥ

or

| 2=text2? | Ⓥ

or

| 3=text3? | Ⓥ

or

| 4=text4? | Ⓥ

> ℹ️ When selecting MSN numbers, only the MSN numbers entered are offered (➔ page 18).

Checking recordings

The "AM menu" key LED flashes when new messages are received.

The telephone number or, if possible, the name of the caller and the MSN number on which the call took place is stored along with every message. This allows you to check the old (already played back) and new messages:

| AM menu | ▮▭ | Activate the answering machine menu.

◀▶ | 2=recordings? | Ⓥ

‖▶ or | 2=playback/pause? | Ⓥ

To listen to the messages stored, press ② or confirm "2=playback/pause?".
The message is played back.

> ℹ️ If there are new messages, the answering machine automatically jumps to the menu "2=playback/pause?" when you activate the AM menu.

> ℹ️ You can also use the playback functions while a call is in progress, thereby allowing the other party to listen to your answering machine messages.

Answering machine

> ⓘ You can also program an "AM playback" key for playing back messages (➜ page 42).

Fast playback

Prerequisite: you are in menu "2=recordings?" and listening to a recording.

⑨ or | 9=fast forward? | ⊙

To speed up the recording, press ⑨ or confirm "9=fast forward?". The recording is played back at higher speed. Press ⊙ to resume playing back the recording at normal speed.

Interrupting/resuming playback

Prerequisite: you are in menu "2=recordings?" and listening to a recording.

‖▶ or | 2=playback/pause? | ⊙

To interrupt the recording briefly, press ② or confirm "2=playback/pause?". The recording is interrupted.

Press ② again to resume the recording.

Stopping playback

Prerequisite: you are in menu "2=recordings?" and listening to a recording.

□ or | 5=stop? | ⊙

To stop playing back the recording, press ⑤ or confirm "5=stop?". The recording is stopped.

Deleting a recording

You can delete old recordings once they have been played back completely. A message is considered old if at least 10 seconds of it have been played back.

Prerequisite: you are in menu "2=recordings?" and listening to a recording.

X or | 4=clear? | ⊙

To delete this message, press ④ or confirm "4=clear?". The message is deleted and the next message is displayed.

Answering machine

Checking the next/previous message

Prerequisite: you are in menu "2=recordings?" and listening to a recording.

K or | 1=back? | ✓

If you press [1] or confirm "1=back?" within 5 seconds when playing back a recording, the previous recording is played back.
If no recording is being played back, the system jumps back to the previous recording.

↘ or | 3=forward? | ✓

To jump to the next recording, press [3] or confirm "3=forward?".
Press [1] to play back the previous recording.

To play back the next recording immediately, press [3] or confirm "3=forward?" while the message is playing.

Selecting a call

If the call number of the caller who left a message was transferred, you can select this call number from the answering machine menu.

Prerequisite: you are in menu "2=recordings?" and have selected a message.

[7] or | 7=select call? | ✓

To select the call number of the caller, press [7] or confirm "7=select call?". The call number is dialed.

or   If the caller's name or number appears on the display, you can also dial this number by pressing the Loudspeaker key or by lifting the handset.

Deleting all messages

All old messages are deleted

A message is considered old if at least 10 seconds of it have been played back and if the AM menu was exited definitively.

| AM menu | ▌▬   Activate the answering machine menu.

▶ | 4=clear all? | ✓ ▶ | clear | ✓

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Answering machine

Monitoring during a recording

If the monitoring function is active, you can monitor the recording of a message via the loudspeaker.
You have the option of taking the call by lifting the handset.
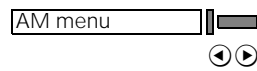
| AM menu | Activate the answering machine menu. |

◀ ▶ | 5=settings? | ✓

📱 and ✓   With password protection (➔ page 16): enter the password.

▶ | 3=monitor? | ✓ ▶ | Change? | ✓
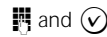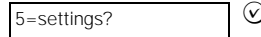
Monitoring status (activated/deactivated) is indicated in the upper part of the display. If the function was previously activated, it is now deactivated. If the function was previously deactivated, it is now activated.

> You can also program an "AM monitoring" key for the monitoring function (➔ page 42).

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Answering machine

Recording calls

You can record a call while telephoning.
Inform the other party of your intention to record the call.
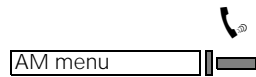
📞 You are conducting a call.

AM menu ▐▬ Press "AM menu". The answering machine menu is activated.

‖● Press ⑥. The call is recorded. The remaining recording time is displayed and updated.

Personal infos

You can use the answering machine memory to record messages/reminders for yourself or for other users. To check these messages, confirm the menu item "1=status?" (➜ page 86). To play them back, confirm "2=recordings?".
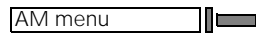
AM menu ▐▬ Activate the answering machine menu.

◀▶ | 2=recordings? | ⓥ

‖● or | 6=record/pause? | ⓥ

⑥ To record the info, press ⑥ or confirm "6=record/pause?". The recording begins.

☐ To end the recording, press ⑤.

> ℹ️ You can also program an "AM recording" key for recording personal infos (➜ page 42).

Answering machine

Checking the status

The following information can be checked in the "status" menu:

- Number of messages (old and new)
- Number of recordings (old and new)
- Number of infos (old and new)
- Assignment of announcements, info announcements and time controls to MSN numbers
- Available memory in minutes and seconds.
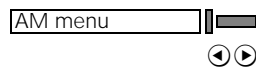
AM menu ▮▭   Activate the answering machine menu.

◀▶ `1=status?`   Ⓥ

Details list

The following details relative to the individual messages can be displayed:

- Call number or name of the caller
- Place of the message in the list
- MSN number which was used for ringing
- Length of the message
- Date and time of the call
- "New" identifier for messages that have not yet been played back.
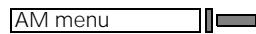
AM menu ▮▭   Activate the answering machine menu.

▶ `2=recordings?`   Ⓥ ▶ `8=details?`   Ⓥ

> ℹ️ You can scroll through the details list with the Previous ◀ and Next ▶ keys and view all recorded messages. If you select a recording with Ⓥ, the details list is quit and you can play back or delete the message in question.

> ℹ️ You can redefine a message that has been played back as "new" by pressing ✱ in the details list.

Answering machine

Sorting recordings

You can set sort criteria for playing back messages. You can switch between two types of sort criteria as follows:

● all new recordings are played back first followed by all old recordings, or

● all recordings are played back in the timed sequence.
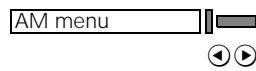
AM menu   Activate the answering machine menu.

◀▶ | 5=settings? | ✓

▦ and ✓   With password protection (➜ page 16): enter the password.

▶ | 6=rec. sorting? | ✓ ▶ | Change? | ✓
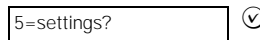
The sort criterion is switched.

VIP function

The VIP function allows the caller to switch from the normal ring tone to a special ring tone by entering a password. At the same time, the caller can leave a message, even if the answering machine is activated and set to "Info announcement". A "star-VIP password-star" password (example: *1234*) must be entered in DTMF mode while the info announcement is playing. The telephone now switches to the special ring tone to inform you of the VIP call.
The caller can leave a message if a VIP call is not answered within 75 s.

You must program a password in order to be able to use VIP functions (➜ page 16).

You can also program an "AM Vip function" key for the VIP functions.

Programming a VIP password

The password is a four-digit VIP PIN to be given to selected acquaintances, friends, etc. for activating the VIP ring tone.

The default VIP password is "0000".
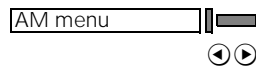
AM menu   Activate the answering machine menu.
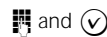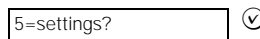
◀▶ | 5=settings? | ✓

▦ and ✓   With password protection (➜ page 16): enter the password.

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Answering machine

(▶) | 7=VIP function? | (✓) (▶) | Program? | (✓)

📟 and (✓) Enter and confirm the VIP password.
The password is programmed.

Activating/deactivating the VIP function

| AM menu ▮▬ | Activate the answering machine menu.

(◀)(▶) | 5=settings? | (✓)

📟 and (✓) With password protection (➔ page 16): enter the pass-
word.

(▶) | 7=VIP function? | (✓) (▶) | switch over? | (✓)

Time control

The time control function allows you to program answer-
ing machine operation depending on the time of day.

For example, you can program your answering machine to
come on between 12.00 p.m. and 8.00 a.m. and to an-
swer calls with a particular announcement. You can pro-
gram your answering machine to go off between 8.00
a.m. and 8.00 p.m. The answering machine should then
reactivate itself for the remaining evening hours and an-
swer calls with a different message to the one used dur-
ing the morning hours.

Two time controls are available. This allows you to pro-
gram different time controls for different MSN numbers.

Up to 5 time windows can be specified for each time con-
trol, e.g. from 12.00 p.m. to 6.00 a.m., from 6.00 a.m. to
12.00 a.m., from 12.00 a.m. to 4.00 p.m., from 4.00 p.m.
to 8.00 p.m. and from 8.00 p.m. to 12.00 p.m.

The system automatically jumps to the program menu
item the first time the answering machine is activated if
time controls have not yet been set.

To program the two time controls, an announcement or
an info announcement must have been recorded.

Programming a time control

| AM menu ▮▬ | Activate the answering machine menu.

(◀)(▶) | 5=settings? | (✓)

Answering machine

▦ and ⓥ	With password protection (➜ page 16): enter the password.
ⓑ 1=active announcement? ⓥ	
◀▶ and ⓥ	Select an MSN number for which you want to program a time control: 1 = MSN1, 2 = MSN2, 3 = MSN3.
◀▶ and ⓥ	Select one of the two possible time controls: 5 = time control 1, 6 = time control 2.
▶ Program? ⓥ	
◀▶ and ⓥ	Select how the answering machine is to react during the first time window: 1 = text 1, 2 = text 2, 3 = text 3, 4 = text 4 or 7 = AM off.
	If the answering machine is to be active during the first time window, select an announcement text between 1 and 4. If the answering machine is to be deactivated in this time window, select "7 = AM off".
▦ and ⓥ	Enter and confirm the start time of the first time window, e.g. 0000 for 12.00 p.m.
▦ and ⓥ	Enter and confirm the end time of the first time window, e.g. 0800 for 8.00 a.m.
◀▶ and ⓥ	Select how the answering machine is to react in the next time window: 1 = text 1, 2 = text 2, 3 = text 3, 4 = text 4 or 7 = AM off.
▦ and ⓥ	Enter and confirm the end time of the next time window, e.g. 2000 for 8.00 p.m.
	A start time does not need to be specified from the second time window on. The end time of the previously defined time window is automatically taken as the start time.
	In total, you can program 5 time windows for time control.

Activating/deactivating a time control

AM menu ▮▬	Activate the answering machine menu.
◀▶ 5=settings? ⓥ	
▦ and ⓥ	With password protection (➜ page 16): enter the password.
◀▶ 1=active announcement? ⓥ	

Answering machine

⊙⊙ and Ⓥ   Select MSN number.

⊙⊙ and Ⓥ   Select the required time controls:
                   5 = time control 1, 6 = time control 2.

                   You can see whether the time control is active or not on
                   the upper display line.

         Ⓥ   "switch over?" appears on the display. Confirm this dis-
                   play. If the time control was previously deactivated, it is
                   now activated. If is was activated, it is now deactivated.

Setting the number of rings

                   You can set the number of times the telephone should
                   ring before the call is answered by the answering ma-
                   chine.
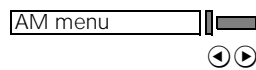
| AM menu ▐▭   Activate the answering machine menu.
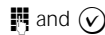
         ⊙⊙ | 5=settings? | Ⓥ

▦ and Ⓥ   With password protection (➜ page 16): enter the pass-
                   word.

         ⊙⊙ | 2=number of calls? | Ⓥ

                   The number of rings set is shown in the upper display
                   line.

⊙⊙ and Ⓥ   Select the desired number of rings (1, 2, 4 or 6) or "Auto
                   2/4". The default setting is 4 rings.

                   If you select "Auto 2/4", the number of rings depends on
                   whether new messages are stored. If new messages are
                   received, the answering machine answers the call after
                   two rings, otherwise it waits for four rings. This setting is
                   particularly useful if you are checking your answering ma-
                   chine remotely as the number of rings indicates whether
                   there are new messages or not. You thus have the option
                   of hanging up after two rings without incurring any charg-
                   es (➜ page 92).

Setting the voice quality

                   You can switch between two different voice qualities
                   when recording an announcement:

● Normal voice quality (compressed)

● High voice quality (uncompressed – higher memory
  requirement).
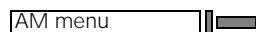
| AM menu ▐▭   Activate the answering machine menu.

Answering machine

◀ ▶ | 5=settings? | ✓

▦ and ✓   With password protection (➜ page 16): enter the password.

▶ | 5=voice quality? | ✓ ▶ | Change? | ✓

The voice quality is switched.

Setting the message length

You can restrict the time allowed for recording messages.

| AM menu ▐▬ | Activate the answering machine menu.

◀ ▶ | 5=settings? | ✓

▦ and ✓   With password protection (➜ page 16): enter the password.

▶ | 4=message length? | ✓ ▶ | max. 30s? | ✓

| max. 60s? | ✓

| max. 120s? | ✓

| endless? | ✓

The message length selected is displayed.

> 🛈 The answering machine automatically clears down the connection if it detects a pause of more than 10 s when a message is being recorded.

Answering machine

Operating the answering machine remotely

You can operate your answering machine remotely from a normal telephone. To do this, the normal telephone must be set to DTMF signalling or you must have a hand-held transmitter. The following functions can be performed remotely:

● Check recordings

● Delete recordings

● Perform room monitoring

● Activate/deactivate the answering machine

> If you have set "Auto 2/4" for the number of rings (➜ page 90), more than 2 rings indicates that there are no new messages.

Initiating remote operation
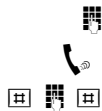
▦   Call your number from a normal telephone.

☎   Wait until the announcement starts.

⊞ ▦ ⊞   Enter the four-digit PIN (preceded and followed by a pound symbol) while the announcement is playing, e.g. ⊞ 1 2 3 4 ⊞.

> The connection is cleared down after the third incorrect PIN entry.

Checking messages and infos

To check recordings, use the same keys as for checking recordings on your own telephone.

2   Plays back a recording.
Press 2 once more to stop the playback.

9   Plays back a recording faster.

1   Rewinds to the start of the recording or to the previous recording.

3   Forwards to the next recording.

5   Stops the playback.

Deleting recordings

To delete recordings, use the same keys as for deleting recordings on your own telephone.

4   Deletes all recordings that have been played back. An announcement confirms the delete operation.

Answering machine

|	
or ⓪④	Deletes all old recordings. A recording is considered old if at least 10 seconds of it have been played back. The deletion of all old messages is not confirmed by an announcement.

Activating the answering machine

	The answering machine can be activated from a normal telephone. Your call is answered after 90 s by Profiset 70isdn which issues the request "Please enter PIN".
⌗	Call your number from a normal telephone.
☎	Wait for 90 s until the "Please enter PIN" request is issued.
⌗ ⌗ ⌗	Enter the four-digit PIN, preceded and followed by a pound symbol, e.g. ⌗①②③④⌗.
⓪⑥	After entering the correct PIN, enter the digits ⓪⑥ for the menu item "6=switch AM?". Enter the digits ⓪⑥ once more to deactivate the answering machine.

Room monitoring

	This function allows you to acoustically monitor the room in which your telephone is located via a normal telephone. You are not only able to hear what is going on the your room, you can also talk to those in the room via the loudspeaker on your telephone.
	Prerequisite: the room monitoring feature is activated (➔ page 27) and the answering machine is activated. Room monitoring can only be activated locally on your Profiset 70isdn, i.e. this feature cannot be activated remotely! If room monitoring has been deactivated, remote room monitoring is not possible under any circumstances.
⌗	Call your number from a normal telephone.
⌗ ⌗ ⌗	Enter the four-digit PIN, preceded and followed by a pound symbol, e.g. ⌗①②③④⌗.
⓪⑧	After entering the correct PIN, enter the digits ⓪⑧. The room monitoring feature is activated. Press the digits ⓪⑧ once more to deactivate room monitoring.

ISDN glossary

ISDN glossary

The ISDN glossary should help you understand the many new terms and abbreviations relating to ISDN.

a/b port Port between the TAE socket and analog terminals.

a/b converter These devices are used to connect analog terminals, such as telephone, telefax, answering machine or modem, to the digital ISDN telecommunications network. The a/b converter (a/b adapter) thereby converts the analog signals into digital signals and controls the D channel protocol.

APL Public network termination point. The APL is the actual connection point to the telecommunications network. The internal telecommunications connector (TAE socket) is attached to the APL.

B channel The basic channel with a maximum transmission speed of 64 kBit/s.

Basic rate access This is the ISDN basic rate access. It is the entry-level connection type in ISDN and offers two B channels with 64 kBit/s and a control channel with 16 kBit/s.

BZT Abbreviation for "**B**undesamt für **Z**ulassung in der **T**elekommunikation" (Federal German Bureau of Certification for Telecommunications). Terminals which have been tested and approved for connection to the German Telekom network are assigned a BTZ number.

Call forwarding Forward calls to another station.

Call waiting If the line is busy, a connection request is signalled (acoustically or optically) by a call waiting signal.

CAPI Abbreviation for **C**ommon ISDN **A**pplication **P**rogrammable **I**nterface. CAPI is a standardised interface between the communication interface and the protocol interface. Any ISDN application programs can communicate with any ISDN adapter cards via the CAPI.

CCITT Abbreviation for **C**omité **C**onsultatif **I**nternational **T**élégraphique et **T**éléphonique which is an international consulting body for telegraphy. The CCITT has changed over to the ITU. It publishes recommendations which are frequently viewed as standard in the international telecommunications industry.

CLIP Abbreviation for **C**alling **L**ine **I**dentification **P**resentation and means that the calling party's number appears on the called party's display.

COLP Abbreviation for **C**onnected **L**ine **I**dentification **P**resentation and means the called party's number appears on the calling party's display.

D channel Control channel, also known as the data channel, which is provided in the ISDN basic rate access with 16 kBit/s and in the primary rate access with 64 kBit/s. It is required in particular for connection setup and cleardown.

Dial pulsing (DP) The old signalling method in the analog telephone network, whereby the signalling information is transmitted by interruptions on the line. Increasingly replaced by dual-tone multifrequency signalling (DTMF).

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ISDN glossary

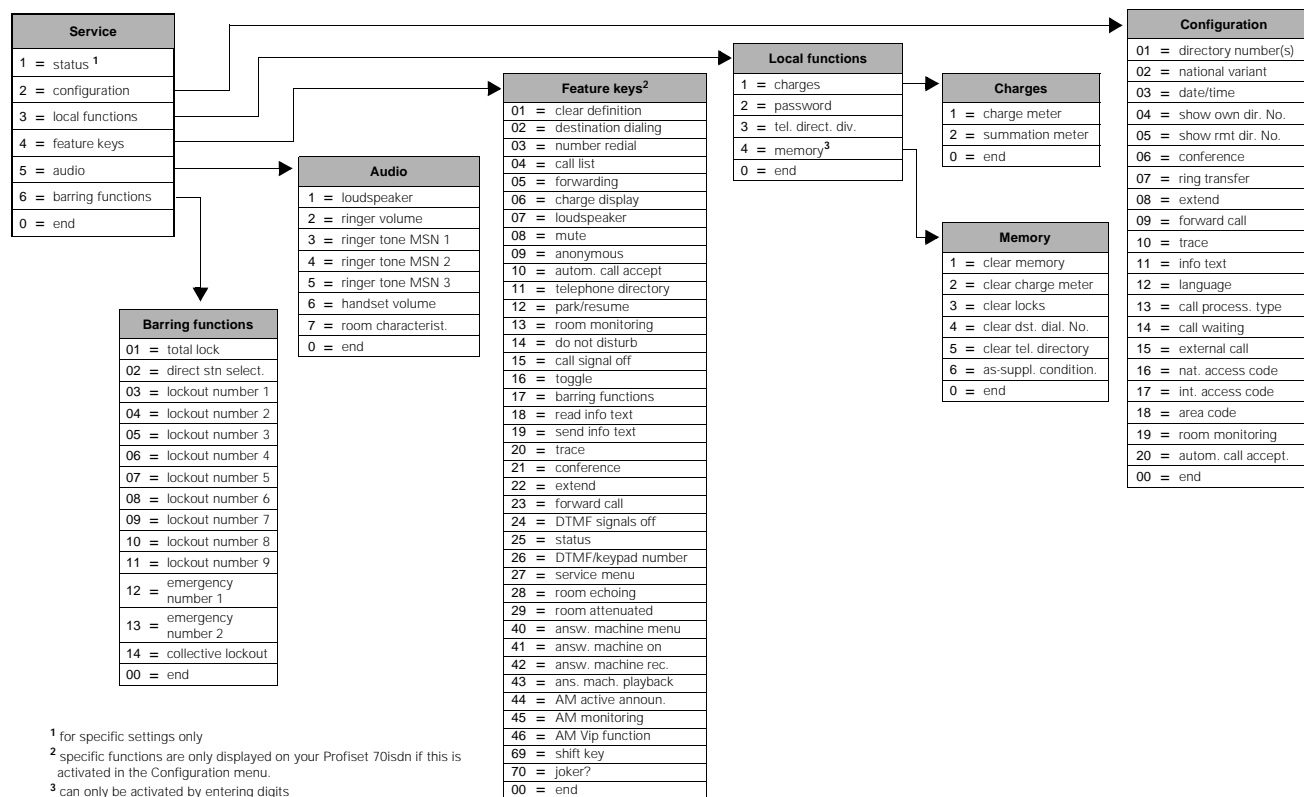|	
Dual-tone multifre-quency (DTMF)	A signalling method whereby the information is transmitted to the switching centre in the form of tones with various frequencies.
Euro ISDN	Uniform European ISDN standard introduced at the end of 1993, which will completely replace the national ISDN protocols in the year 2000.
Hold	The "call hold" feature. The non-communicating state of the user put on hold in the course of a consultation or toggle action.
Hunt group	A number of terminals can be accessed under one directory number or are switched together to one connection. A number of basic rate accesses can also be switched together to one connection.
IAE	Telecommunications connector. Denotes a standardised connecting box for analog terminals on the analog telecommunications network.
ISDN	Abbreviation for **I**ntegrated **S**ervices **D**igital **N**etwork. Service-integrating digital telecommunications network which integrates telecommunications services such as telephone, telefax, data and image transmission in a network.
LED	Light emitting diode. An LED which flashes or lights up to indicate the status ON of a device or key.
MSN	Abbreviation for **M**ultiple **S**ubscriber **N**umbers; a multiple subscriber number of the ISDN basic rate access in a multi-device connection.
Multi-device connection	A connection whereby a number of terminals can be operated simultaneously on an S_0 bus in point-to-multipoint operation.
Multiple subscriber number (MSN)	Assigned by Deutsche Telecom for an ISDN basic rate access with multi-device connection. Multiple subscriber numbers are used for direct inward dialing to the terminal but, unlike the direct inward dialing number, are completely independent of each other.
NTBA	Abbreviation for **N**etwork **T**ermination for **B**asic **A**ccess. Network termination of an ISDN basic rate access which is installed by or can be obtained from Deutsche Telekom.
NTPM	Abbreviation for **N**etwork **T**ermination for **Pr**i**m**ary Rate Access. Termination device of an ISDN primary rate access installed by Deutsche Telekom.
Point-to-multipoint operation	An ISDN multi-device connection whereby a number of ISDN terminals can be operated on an S_0 bus.
Point-to-point operation	An example of point-to-point operation is the primary rate access. In this case, only one terminal can be operated on the connection. For this reason, it is also called a system connection. In most cases, the system connected is an ISDN PBX.
Premium rate access	Premium service package for ISDN features (based on the standard rate access).
Primary rate access	ISDN connection equipped with 30 B channels each offering 64 kBit/s. Primary rate access (system connection) is only available in connection with a standard rate or premium rate access.

ISDN glossary

S_0 bus	A line used from the network termination in the multi-device connection. Up to 12 connecting boxes and up to 8 ISDN terminals can be connected to an S_0 bus; of these, however, only 4 ISDN terminals can be connected simultaneously without separate power supply.
Service indicator	A feature of ISDN. The service indicator, which is sent with every ISDN connection, indicates the type of connection required. If the service indicator of the calling terminal does not correspond to that of the called terminal, the connection is not established.
Standard rate access	Service package for ISDN features. See also premium rate access.
System connection	A particular type of ISDN connection. In the Euro ISDN, either the basic rate access or the primary rate access can be used for a system connection. The system connection is a point-to-point connection.
Three-party conference	In a three-party conference, a user is simultaneously connected to two other parties, whereby all three parties can speak to each other.
Terminal adapter	A device for interface adaptation, e.g. for connecting analog terminals to an ISDN basic rate access.
Toggle	A special type of consultation whereby the two parties can be spoken to alternately without interrupting the telephone connection.
TSI	Abbreviation for "Terminal Selection Identifier". Used for the old German ISDN protocol 1TR6 (no longer widely used) to address a number of terminals connected to the same basic rate access. Nowadays, MSNs are used for this function.
Western plug	General term for connectors with 4 or 6 contacts with analog terminals and 8 contacts with ISDN terminals.

Overview of service menu functions

The service menu allows you to access Profiset 70isdn settings.
For a corresponding overview for the answering machine, see ➜ page 76

Service
1 = status [1]
2 = configuration
3 = local functions
4 = feature keys
5 = audio
6 = barring functions
0 = end

Audio
1 = loudspeaker
2 = ringer volume
3 = ringer tone MSN 1
4 = ringer tone MSN 2
5 = ringer tone MSN 3
6 = handset volume
7 = room characterist.
0 = end

Barring functions
01 = total lock
02 = direct stn select.
03 = lockout number 1
04 = lockout number 2
05 = lockout number 3
06 = lockout number 4
07 = lockout number 5
08 = lockout number 6
09 = lockout number 7
10 = lockout number 8
11 = lockout number 9
12 = emergency number 1
13 = emergency number 2
14 = collective lockout
00 = end

Feature keys[2]
01 = clear definition
02 = destination dialing
03 = number redial
04 = call list
05 = forwarding
06 = charge display
07 = loudspeaker
08 = mute
09 = anonymous
10 = autom. call accept
11 = telephone directory
12 = park/resume
13 = room monitoring
14 = do not disturb
15 = call signal off
16 = toggle
17 = barring functions
18 = read info text
19 = send info text
20 = trace
21 = conference
22 = extend
23 = forward call
24 = DTMF signals off
25 = status
26 = DTMF/keypad number
27 = service menu
28 = room echoing
29 = room attenuated
40 = answ. machine menu
41 = answ. machine on
42 = answ. machine rec.
43 = ans. mach. playback
44 = AM active announ.
45 = AM monitoring
46 = AM Vip function
69 = shift key
70 = joker?
00 = end

Local functions
1 = charges
2 = password
3 = tel. direct. div.
4 = memory[3]
0 = end

Charges
1 = charge meter
2 = summation meter
0 = end

Memory
1 = clear memory
2 = clear charge meter
3 = clear locks
4 = clear dst. dial. No.
5 = clear tel. directory
6 = as-suppl. condition.
0 = end

Configuration
01 = directory number(s)
02 = national variant
03 = date/time
04 = show own dir. No.
05 = show rmt dir. No.
06 = conference
07 = ring transfer
08 = extend
09 = forward call
10 = trace
11 = info text
12 = language
13 = call process. type
14 = call waiting
15 = external call
16 = nat. access code
17 = int. access code
18 = area code
19 = room monitoring
20 = autom. call accept.
00 = end

[1] for specific settings only

[2] specific functions are only displayed on your Profiset 70isdn if this is activated in the Configuration menu.

[3] can only be activated by entering digits

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Overview of service menu functions

Quick reference guide

Quick reference guide

Accepting a call:	You hear the call signal: Lift the handset or press Loudspeaker ▮ ▬ .
Making an outside call:	Lift the handset or press Loudspeaker ▮ ▬ then 🖳 dial the number (alternative: use the telephone directory or destination dialing key). Or: 🖳 dial the number, then lift the handset or talk hands-free.
Number redial:	Press Number redial ▮ ▬ . Confirm directory number displayed by pressing ⓥ or select a number with ◀ ▶ and ⓥ. Confirm "Dial?" with ⓥ.
Programming destination dialing key:	Select ▶ "Service?" ⓥ ▶ "4=feature keys?" ⓥ. Press desired destination dialing key ▮ ▬ . Select ▶ "02=destination dialing?" ⓥ. Enter the desired directory number. Save with ⓥ.
Dialing with destination dialing keys:	Press desired destination dialing key ▮ ▬ . The stored number is dialed.
Dialing from telephone directory:	Press Telephone directory ▮ ▬ . If applicable, select desired telephone directory division with ◀ ▶ and ⓥ. Confirm "select entry?" with ⓥ. Enter user names using the letters on the keypad or select with ◀ ▶. When the desired entry is displayed, confirm "Dial?" with ⓥ.
Programming call forwarding:	Select "Forwarding?" with ◀ ▶ and ⓥ. If applicable, select desired multiple subscriber number (MSN) with ◀ ▶ and ⓥ. Select forwarding mode "immediately", "deferred", or "if busy" with ◀ ▶ and ⓥ. Enter or change the directory number (you can backspace with ◀). Save with ⓥ.
Checking the answering machine:	Press AM menu ▮ ▬ . Then press the 2 = ▮▶ key and confirm with ⓥ.

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Quick reference guide to remote AM operation

The card on this page contains the basic instructions for operating the Profiset 70isdn answering machine from a different telephone. You can cut out the card.

S   **Profiset 70isdn**

First step

▦	Dial number. Wait for announcement.
; ▦ ;	Enter PIN.

Messages/info

2	Playback
9	Fast playback
1	Back
3	Forward
5	End message
4	Clear all

Activate/deactivate AM

06	Wait 90 sec. Enter PIN. Activate AM
06	Deactivate AM

Room monitoring

08	Activate/deactivate

Service number: 0180-5333222

Quick reference guide to remote AM operation

s		**Profiset 70isdn**

First step

	⊞	Dial number. Wait for announcement.
;	⊞ ;	Enter PIN.

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Activate/deactivate AM

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Room monitoring

08	Activate/deactivate

Service number: 0180-5333222

Loudspeaker

Number redial

Telephone directory

Answering machine

AM menu

Shift

Loudspeaker	
Number redial	
Telephone directory	
Answering machine	
AM menu	
	Shift