





Operating instructions elmeg CS410 / CS410-U

Table of contents

Description and Installation
Safety notes
Unpacking and placing the telephone
Connecting the telephone (ISDN and handset cords)
Connecting an configuring a headset (not included)
Connecting the telephone to a PC
Changing the label panel
Pictographs
Setting the language of the display
Telephone display and buttons
Function and LEDs
Displays for programmed features
Making Calls
Starting a call
Accepting/rejecting a call
Forwarding a call (call deflection)
Calling line identification (anonymus call) restriction
Starting a call with a set number (MSN)
Redialing
Microphone activation/deactivation, open listening and hands-free calling 20
Headset use
Message
Intercom
Automatic completion of call
Parking
Malicious call identification (MCID)
Keypad and tone frequency dialing (dtmf dialing)
Conducting calls with several parties
Call waiting



Enquiry Call
Call transfer (switching)
Broker's call
Three-party conference
Telephone operation
Telephone directory
VIP Memory
Caller and memo list
SMS and UUS1 text messages
Station guarding
Setting up cost monitoring
Viewing and deleting costs
Setting the tariff factor and the currency
Programming a charge limitation for a specific extension number
Enabling or inhibiting an extension number (MSN) for outgoing calls
Displays during a call and charge information
System telephony
Function keys
System menu for pabx systems with system telephony capability
Configuration settings
Telephone numbers (MSN extension numbers)
Telephone PIN (password)
Protecting access to the telephone menus by a PIN
Parking code (default setting)
Programming the telephone name
Number for the SMS center
Volume settings
Speaker volume setting
Setting the volume of the handset
Acknowledgement signals



Setting the volume of the »Station guarding« tone
Call waiting tone
Setting the headset type
Volume setting for appointment reminders
Possible audio output features
Further settings
Call forwarding (call rerouting)
Call waiting feature
Direct call
Appointment reminders
Setting the display contrast
Auto-answer
Automatic headset use
Call filter
Setting the time
Extended configuration
Settings for an MSN extension number
Connected to a pabx
Dial ranges
Setting the User Interface
Programming function keys
Service functions
Reading the telephone's firmware version
Country-specific settings
Downloading a new firmware
Telephone BIOS 83
Reset - Resetting to default state
Telephone and PC
CTI / TAPI using the telephone's USB port
CAPI using the telephone's USB port
Audio applications using the telephone's audio sockets



Contents of the WIN-Tools CD-ROM
Installing the programs from CD-ROM
Appendix
Declaration of conformity and CE mark
Default telephone settings
Telephone menus
Technical specifications
Index
Brief description of functions

Warranty Declaration



Description and Installation

You can connect the ISDN system telephone at the internal ISDN connection of an elmeg pabx system (S0 or Up0). The ISDN telephone is connected to the ISDN network through an ISDN jack (Western or RJ.45).

The ISDN telephone provides system features when connected to certain elmeg PABX systems. For example:

- Dialing from the pabx telephone directory
- Sending and receiving SMS messages
- Messaging and intercom calls with other system telephones connected to the pabx.
- Function keys for controlling special pabx features (switching call modes, team log-in/off, line buttons, extension buttons). The status of the programmed features can be displayed by means of LEDs assigned to the specific function keys.
- Accessing the PABX system menu. This menu provides further pabx features.

The internal ISDN connection of the PABX systems automatically interfaces with the system telephone. Please refer to the operating instructions of your PABX to determine whether these typical system features are provided with the various system telephones.

CS410

This system telephone is designed for connection to an internal S0-port (4 wires) of an elmeg pabx system. If you wish to connect the telephone to an internal Up0-port, be sure to install the internal Up0/S0-module into the telephone or use the external Up0/S0-converter.

CS410-U

This system telephone is designed for connection to an internal Up0-port (2 wires) of an elmeg pabx system. The internal Up0/S0-module or the external Up0/S0- converter are then no longer required.

Setting up/ Configuring the system telephone

On the system telephone itself you can only carry out a limited configuration of the supported features. You can only perform a complete configuration of the system telephone with the Professional Configurator supplied with the WIN-Tools CD-ROM via the internal ISDN port of an elmeg pabx system (starting from firmware version 5.40, CD version 5.43 and higher, WIN-Tools Telephones from Version 3.30) or via the telephone's USB-port.

System telephone extension modules

Your telephone is equipped with two slots for connecting optional modules and a dedicated interface for an additional »T400« keyboard.

• **Up0/S0-module (CS410 only)** You can install the Up0/S0 module in your telephone to connect it at a Up0 port of an elmeg PABX system. The external Up0/S0- converter is then no longer required.

• Answering machine module

This module provides your telephone with a multi-function digital answering machine.



For example: Separate programming for each MSN extension number, time control feature for voice announcement related to specific MSN extension numbers, automatic message forwarding with newly recorded calls, recording of dictations, logging of calls, remote polling protected by PIN

A special key and LED are provided for operation of the answering machine.

• Additional keypad »T400«

This additional keypad has 20 buttons with an inset LED, which can be used on two levels as function buttons. The LED is assigned to the first level. Another two LEDs are provided for indicating additional information.

Up to three additional keypads can be connected (cascaded) to your telephone. A plug-in power supply is required if you use more than one additional keypad. Use only the approved power supply units available as accessory.

(Plug-in power supply unit T400 / Ident-Number: 220872.5

Plug-in power supply unit T400-UK / Ident-Nummer: 220873.3)

Safety notes

- Storage temperature: -25°C ... +70°C.
- Operating temperature: +5°C ... +40°C. Only connect the telephone when the permissible ambient operating temperature has been reached.

Please note that condensation on or in the telephone may occur when moving from cold to warm surroundings. Only remove the telephone from the package when the permissible ambient operating temperature has been reached.

- You should not make calls or connect or disconnect any lines during thunderstorms.
- Only attach the connecting cords at the connections provided.
- Make sure phone cables are installed in a safe manner to prevent tripping.
- Avoid the following:

Direct sunlight Sources of heat (for example radiators) Electronic devices (for example stereo components, office equipment or microwave devices Ingress of moisture or liquids Aggressive fluids or vapors Dusty environments

- Do not use the phone in excessively humid rooms or hazardous locations.
- Never open the telephone, or accessories, yourself.
- Do not touch plug connectors with pointed, metal, or moist objects.
- Place the phone or accessories on a non-skid surface.
- When required, clean the telephone with a slightly moistened cloth.
- Only use approved accessories.



Elektrostatic charges

The telephone is supplied with enhanced ESD protection against the effects of electrostatic discharge that exceeds the protection level cited in the approval specification. Elevated ESD levels should nevertheless be avoided to the greatest possible extent. In some cases, electrostatic discharge levels can far exceed the approval limits or the resistance levels already implemented in your telephones. Eliminate the causes or conditions that promote these elevated ESD levels, such as insufficient humidity or carpeting. The telephone manufacturer does not assume any liability for damage caused under such circumstances.

Unpacking and placing the telephone

Unpacking

- ISDN system telephone
- Handset with handset connecting cord
- 2 feet
- ISDN connecting cord (approx.6 m)
- PC connecting cable (USB, approx. 3m)
- PC-audio cable (3.5 mm stereo plug, approx. 2.5m)
- Adapter cord for headsets with 4-pin connection cable (8-pin / 4-pin)
- Cord holder (self-adhesive after removing the film)
- Operating instructions and labels for function keys
 Supplement with telephone safety instructions
- WIN-Tools CD-ROM with: Professional Configurator, telephone, Download and Sound Manager, TAPI-, USB-, CAPI- and NDISWAN-drivers, Adobe Acrobat Reader, Operating instructions and Adobe Acrobat file for the printing of individual labels

Placing the telephone

Before placing the telephone, mount the rear feet at the positions (6) shown in figure 1. Please note that the plastic feet of your ISDN system telephone may leave marks on sensitive surfaces, such as furniture. The manufacturer of the ISDN system telephone is not liable for any such damage. Therefore, use appropriate non-skidding pads under the phone.

Cleaning the telephone

The ISDN system telephone has been manufactured for normal, everyday use. When required, clean the ISDN system telephone with a slightly moistened cloth, or with an anti-static cloth. Never use a solvent to clean the phone! Never use a dry cloth. Electrostatic charges could damage the electronics in the system. It is essential that no liquids penetrate into the inside of the ISDN system telephone, as this could destroy the phone.



Connecting the telephone (ISDN and handset cords)

Please connect the ISDN cable and the handset cable. Otherwise you will not be able to operate the phone.



Figure 1

Connecting the handset connecting cord

Connect the handset cord (1) as shown in figure 1. Lay the handset cord in the cord groove (4) and lock it below the two cord retainers (5).

Connecting the ISDN cord

Connection to the S0 (CS410)

Connect the ISDN cord (2) as shown in figure 1 (S0-connector). Ensure that the longer ISDN connector is plugged into the ISDN socket and the shorter ISDN connector into the ISDN socket on the telephone. Then lay the ISDN cord in the cord groove (4) and lock it below the two cord retainers (5).

Connection to the Up0 (CS410 with Up0/S0-module or CS410-U)

Connect the ISDN cable (2) as shown in figure 2 (Up0-socket). Ensure that the longer ISDN connector is plugged into the ISDN outlet and the shorter ISDN connector into the ISDN socket on the telephone. Then lay the ISDN cord in the cord groove (4) and lock it below the two cord retainers (5).

CS410 telephones equipped with a Up0/S0 module or CS410-U phones may not be connected through the So-socket (3) to the ISDN connection (e.g. internal ISDN port of the PABX) .



Important notes for connecting the telephone to the Up0

- You can connect a further ISDN device with an S0 port (for example an ISDN card or a another telephone) at the S0 socket (3) of the telephone. For each additional ISDN device this connection provides a power of 1 watt.
- If you connect an internal ISDN bus (for example for a telephone in a neighboring room) at the S0 socket (3), this ISDN bus must be equipped with terminating resistors. For more information on installation procedures please refer to the Assembly instructions for your PABX.



Figure 2

Connecting an configuring a headset (not included)

You can connect a headset to your telephone. Ask your dealer which headset models can be used or retrieve the required information from the Internet at <u>http://www.elmeg.com</u>.

The telephone is equipped with an 8-pin socket for connecting a headset. Headsets with a DSHG-interface (e.g. cordless DECT-headsets) can be connected to the telephone right away. Special accessories are not required for this. Use the adapter cord included in the scope of supply for connecting standard headsets (4-pin connection cable, e.g. U10PS).

You can **not** connect / install the optional Answering Machine module and a headset with a DSHG port simultaneously to/in a system. You can only use one of these two options at your phone at any one time.

Connecting a headset

Connect the headset as shown in figure 1 on page 4 to the telephone's dedicated headset socket. Then lay the headset cord (3) in the cord groove (4) and lock it below the cord retainers (5).

If the headset cord does not fit in the cord guide, attach the self-adhesive cord holder supp-



lied with the system to the bottom of your telephone (7). Then, route the headset cord under the cord holder.

Headset socket assignments



- 8 DSHG-transmitter
- 7 V+ (3.3V)
- 6 Microphone (Ground)
- 5 Handset (3.3V, switchable via resistor)
- 4 Handset (Ground)
- 3 Microphone +
- 2 Ground (Ground)
- 1 DSHG-receiver

Figure 3

Further settings when using a headset

You can use the handset or the headset for making calls. With headset operation, the following settings are required or possible:

- When configuring your telephone, program one of the function keys for headset operation (headset button, see page 51).
- You can use the headset connected to your system automatically for certain actions on the phone (see page 71).
- If a special support feature is stored in your telephone for the headset your are using, set your phone for that headset model.
 For example, the LED in the microphone extension for »Firefly F142 N« from Plantronics can be activated by the telephone.
- If you would like to use the auto-answer feature with your headset, set the time after which a call is answered (see page 71). When configuring your telephone, you should program a function key to be used for activating or deactivating the auto-answer feature.

Connecting the telephone to a PC

Connecting the PC connection cord (USB)

Use the USB cord supplied with the system to connect the telephone to the PC, or to the hub. If you use a different USB cord, ensure that the distance between the telephone and the PC, or between the telephone and the hub, does not exceed five meters, depending on the type of cord you are using.

Connect the USB cord (4) as shown in figure 4 (PC-socket). Plug the USB connector (type A) into the corresponding socket of your PC and the USB connector (type B) into the USB socket on the back of the telephone (1). The telephone is automatically detected by the PC, provided that both devices (telephone and PC) are switched on.



Installation of a device driver is started automatically when initially connecting the telephone to a PC. Insert the WIN-Tools CD-ROM supplied with the telephone and follow the instructions displayed on the screen.

You will need a hub (USB distributor) if you plan to use several USB terminal devices at your PC. Connect the hub to the USB port of the PC. You can then connect other USB terminal devices, including the telephone to the hub.

Connecting the audio sockets (Audio in / Audio out)

The telephone is equipped with an input (2) and an output (3) for audio signals. Both these ports have a 3.5 mm stereo jack. When using the optional answering machine module, you can connect the telephone via these ports to the PC sound card in order to upload announcements into the phone or save recorded messages on the PC.

You can also use specific telephone features with the Audio-Out output (see page 64). Connect the speakers (5) with a 3.5 mm stereo jack to the telephone's Audio-Out (3) output, as shown in figure 4.



Figure 4

Changing the label panel

The label panels for the function keys are included on a separate sheet enclosed in the operating instructions. Cut out the label you wish to use .

To change the label panel, press the flexible cover together between your index finger and thumb and lift it out. The label panel can now be changed.

You can fill in the label for your telephone with your own information and then print it out using the Professional Configurator. Also available on the WIN-Tools CD-ROM is an Adobe Acrobat file containing templates that you can also fill in and print out.



Pictographs

(*)(#)

The pictographs (symbols) described as follows have been used in these operating instructions to illustrate some procedures for setting and using the telephone.

- Lift up the handset or start initializing selection.
- Replace handset. The telephone is idle.
- A call is signaled. The ringing tone melody sounds.
- You are conducting a call.
- A three-party conference call is initiated.
- You hear the positive or negative acknowledgement signal.
- Select the number, code, character or text.
- Press the appropriate button on the push-button set.
- Setting the language of the display

language immediately.

You can select the language of your display.



Nederland



Telephone display and buttons



Figure 5

1	Speake

- 2 Handset with connecting cord
- 3 Answering machine button on the telephone (optional module)
- 4 6 Softkeys
- 5 Seven-line backlit display
- 6 Menu key: This key opens the programming menu. If you are already located in a menu and then press the key, either menu-specific functions are shown, or you are moved back one programming step.
- 7 ESC key: Pressing the Esc button during programming returns the telephone to its idle status.
- 8 / 10 Arrow button »To the left« / »To the right«: The arrows »÷« and »÷« in the right corner on the top line of the display indicate that you can call up further functions on the lower lines using the arrow buttons.
- 9 OK key: Pressing this button confirms an entry or stores a setting in the telephone.



- 11 C key: Press this button to move back one menu step in the menu. If you are currently in the input mode, this button can be used to delete individual characters.
- 12 Asterisk key/hash key
- 13 Dial buttons
- 14 Open listening / hands-free button
- 15 Ending a call
- 16 Redial button
- 17 Enquiry button
- 18 Microphone
- 19 Five programmable function keys with LED: Each button has an inset two-color LED (level 1 red / level 2 yellow). These LEDs can be used to indicate certain functions.
- 20 Label panel for function keys
- 21 Call signaling (red) and answering machine (yellow) LED

Telephone display



- 1 Date
- 2 Time
- 3 21 characters per line 4 Arrow: Eurther menu i
 - Arrow: Further menu items accessible by using the arrow keys.
- Answering machine button on the telephone (optional module)
 Arrow: Indication of the softkey
 - Arrow: Indication of the softkey that can be used in the current menu.

The telephone is equipped with a seven-line backlit display. Backlighting is automatically switched on or off.

After you connect the system to the internal ISDN connection of your pabx system, the date and time are shown on the top line of the display. The date and time are imported automatically from the pabx system. The text displayed for a function is always located next to the corresponding softkey. When you press the softkey, the next level is displayed. If not all information fit into the screen, this will be indicated by »«« or »««. To view further characters, press the R key and then use the corresponding arrow key.

Various telephone display shots are illustrated in this operator's manual to help explain the different settings and use of the system. A wavy line at the top or bottom of an illustration indicates that not all of the 7 lines of that particular display are shown (only pertinent lines shown).



Special feature for displaying lists in the display

Several entries are shown in the display as a list for certain settings or when using the phone. These lists are required for telephone directory or VIP memory programmings for example.

The active entry (the one you have selected) is highlighted. Use the menu or the OK button to display further features or select the highlighted entry.

VIP digit to) select↔
VØ:	0123456
V1: TONY	
V2:	

Special feature for changing existing entries

You have various options available for changing existing entries (for example names or numbers).

Example 1:

You may want to change the telephone number of an entry, because that subscriber has moved to another place.

When you use the push-button set to enter the first digit of the new number the existing number is deleted completely. Enter the other digits of the new number.

Example 2:

You wish to change parts of a name in a telephone directory listing, because the name has changed (e. g. in the case of marriage).

Use the arrow buttons to specify the storage position for that entry. You can overwrite an existing surname right away or delete it with the C-button and then enter the new name.

Kov	Press						
rtey	1	2	3	4	5	6	7
	1						
2 ABC	А	В	С	2	Ä	Å	Æ
3 DEF	D	Е	F	3	€		
4 GHI	G	Н	I	4			
5 JKL	J	Κ	L	5			
6 MNO	Μ	Ν	0	6	Ö	Ø	
7 PQRS	Р	Q	R	S	7	ß	\$
8 TUV	Т	U	V	8	Ü		
9 WXYZ	W	Х	Y	Z	9	¥	

Use the buttons as follows when entering texts, letters digits or special characters:





Several special characters are assigned to the button »0«. For special characters, press the key. For exampe.: »!«, »&«, »?«, »+«, »-«, »=«, »(«, »)«, »@«, »\$«, ...

Input mode for entering letters

You have various possibilities for entering letters. The currently set input mode is displayed on the top half of the display on the right-hand side (no display, "Abc« or "ABC«).

»Abc.« The next letter that you enter is shown as a capital, all others as small case letters. Example: »Dean, James.«.

no display	Every letter that you enter is shown in small case.
	Example: »dean, james«.
»ABC«	Every letter that you enter is shown as capitals.
	Example: »DEAN, JAMES«.

When you start entering texts, the input mode is always "Abc.". Press the R key to change the input mode. To insert a character while in "Abc." mode, press the C key.

Call signaling

Call signaling is effected using the ringing tone that has been set for the dialed number (MSN) in each telephone.

If you are using the telephone at an internal ISDN connection of certain elmeg PABX systems, you can program each MSN extension number with special ringing melodies for internal and external calls.

Function and LEDs

You can program the five function keys on two levels with different functions via the PC configuration program for the telephone. Each key is equipped with an LED that is used to display the active function. Each color is assigned to a particular level for the function key (level 1 - red / level 2 - yellow).

Press the key two times to reach the second level for the function keys. This must be done at a short interval.

LED for call signaling and answering machine

flashes red:Incoming callslit yellow:Answering machine switched onflashes yellow:New messages recorded by the answering machine



Acknowledegement signals

Entries or settings you make at your telephone are sometimes confirmed by acknowledgement signals.

Positive acknowledgement signal (1 long tone):

The positive acknowledgement signal indicates that your input has been accepted and stored by the telephone.

Negative acknowledgement signal. (3 short tones):

You will hear the negative acknowledgement signal when your input has not been accepted by the telephone, or when invalid input has been made.

Displays for programmed features

When the telephone is in the idle state, additional information about functions that have been configured are shown on sInf° line of the display. In this example: s-D-S-q-.

Press the softkey next to "Info" if you wish to get more information about the configured functions.

29.0	5.	03	07	21		÷
Info				-[)-S	-q-
Tel.	dr	ctr	.y			
					Qu	iet
VIP						
			Ca:	ller	~ 1	ist



If you have programmed several features, press the arrow buttons to view the various settings.

Inhibit/Menu:

Guard for modificatio

Display	Configured function
»Di«	Active appointment reminder set.
» <u>I</u> «	Dial ranges or call filter active, Access to telephone menus is protected.
»q«	Function »Station guarding« (only brief signal) active.
»Q«	Function »Station guarding« (complete) active. (All call signals are switched off)
»Ll«	Call forwarding active.
»i«	Information about programmed function keys For example: Message enabled / inhibited.
»# ⁸ ≪	Answering machine, time control, call forwarding signaling or re- mote control are activated (optional module).



Making Calls

Starting a call

Dial number - no correction possible



Dial number - correction possible



To change the number or to correct a wrong entry, select the wrong figure with the arrow buttons and press C key to delete it. Now enter the correct number.

If you wish to conduct the call using the handset, just lift it up after dialing the number. Any time during a call you can switch back and forth between hands-free calling, speaker function and use of the handset.

After you have dialed the number you can also press the speaker button to have the number dialed and to use hands-free calling.

If a call can not be put through (e.g. number is inhibited via the dial ranges control, or the account for the number/MSN is empty), a corresponding message will appear in the display. For example: "Inhibit. : ext. number", when the dial range filter is active.

Other options for dialing without lifting the handset

The option of dialing without lifting the handset and of correcting or adding to a number also exists during dialing:

- from the redialing memory (see page 17).
- from the caller/ memo list (see page 33).
- from the telephone directory (see page 29).
- from the VIP memory (see page 32).
- from the direct dialing memory (see page 15).
- via CTI (TAPI) features (see page 85).

If you are using one of these options, you can make further entries prior to initiating the call. You can define which number (MSN), if any, is to be transmitted to the party being called.

Dialing from the pabx telephone directory

When you use this telephone with a system telephony supporting pabx system, you can dial from the telephone directory of the pabx.





Dialing from the phone's directory

You can store up to 250 names and numbers in the telephone directory. To select a name, you can page through the directory using the arrow buttons, or enter the specific first letter(s) of the name using the push-button set.



For information on how to program and configure the telephone directory, please refer to page 29 of these operating instructions.

Dialing from the VIP memory

You can program VIP numbers for each of the ten buttons $1 \dots 0$ including a name (20 characters max.) and a telephone number (26 digits max.).



For information on how to program VIP entries, please refer to page 32 of these operating instructions.

Direct dialing with function keys

Direct dialing is initiated using the direct dialing keys. Each of the five keys can be programmed with two functions or direct dialing numbers.

* *)

Press the function key

Use the function keys to select the desired number.

If you wish to dial a number from the second level, press the corresponding key two times. This must be executed at a short interval.

You can program the direct dialing / function keys via the PC configuration program or the extended configuration of the telephone.



Dialing from the caller/memo list

The phone has a combined caller and memo list. A maximum of 30 entries (calls, memos SMS messages or UUS1- messages) are stored in this list. Entries in the caller or memo list are indicated by the »Caller list.« softkey.



For more information about the caller/memo list, please refer to page 33 of these operating instructions.

Accepting/rejecting a call

In its initial state the telephone will accept all calls, regardless of the selected MSN. If two calls are signaled simultaneously the first one is accepted when you lift the handset. The second call can still be signal by a call waiting signal.

The telephone display shows the caller's number or the number the caller has dialed (MSN-1 ... MSN-10, or the assigned name).



If you are unable, or do not wish to accept a call, you have the option of rejecting this call. Press the "reject." softkey and the call will be no longer be signaled at your telephone. If you are a member of a team, then this call will continue to be signaled at the phones of your team. If the call was signaled only at your phone, the caller will hear the busy signal when the call is rejected.



Forwarding a call (call deflection)

If you are unable, or do not wish to accept a call, you have the option of forwarding this call. Press the >transfer softkey, if you wish to forward this call directly to another subscriber.

For each MSN you can set the number to which the call is forwarded as default number in the configuration of the telephone. After pressing the softkey »x-fer« you can forward the call to the default number or enter a new number.





 \mathbf{k}

Calling line identification (anonymus call) restriction

You can block the display of your telephone number at your caller's telephone if desired. You can set this function specifically for the next call, or permanently (see page 48).

Suppressing calling line identification for the next call

During an external or internal call, you can prevent the number from being transmitted (displayed) to the party you have called.



When a call is signaled, you can decide before accepting the call whether your number is to be transmitted to the caller. If your phone is the final destination of call rerouting you can use this procedure to prevent the caller from seeing the final destination phone number (i. e. yours).



Starting a call with a set number (MSN)

You can conduct an internal or external call such that a defined number (MSN) is transferred from your telephone to the party you are calling. This number must have been entered previously in your telephone. When you call, either the number that is transmitted is shown in the bottom line of the display (MSN-1«... MSN1@«) or the name that you have assigned to this number (MSN). You can initiate dialing using the set extension number (MSN) as explained in the following, or you can use a programmed function key for this.



In the WIN-Tools Telephone Directory Manager you can assign a number (MSN) to each name.

Redialing

The previously dialed telephone number is stored in the redial memory.





Extended redialing

In the extended redialing the numbers of the last 20 calls, connections (conversations) and text messages are stored. You can view these by pressing the redial button or the arrow buttons and subsequently have them redialed automatically.



The last dialed number is displayed. At the end of the second line the status of this entry is indicated by the letters displayed there.

»Ų«	Connection
~	0 "

»Ā« Call

- »M«Mail (extension numbers, to which SMS or UUS1 messages were sent)»¤«Calls configured for automatic redialing.
- no entry You placed a call to somebody but did not reach him/her, or his/her line was busy.

Deleting a telephone number from extended redialing or save as a memo



Press the softkey below "delete?", to delete the displayed entry immediately. Press the softkey below "Memo?" to write the entry as a memo to the scratchpad. After being written to the scratchpad the entry is deleted. The next telephone number is then displayed.

For an entry in the scratchpad, the softkey »Caller list« is shown on the display.

Importing numbers from extended redialing into the telephone directory

You can import a number that is present in the list for extended redialing into the telephone directory of your phone (see page 29).

Begin as fo	bllows:	
*	Co (Menu) Select entry	
	Press the softkey »Tel. drctry«.	5/0123456789 v memo? Tel. drctry
OK	Enter the name. In this example: »Dean«. Confirm your entry by pressing OK.	Input telephone book Name>Dean_



In the redialing function the name displays ins-	5/Dean	V
tead of the number.		memo?
	Tel. drctry	

Automatic redialing

If you placed a call to a subscriber whose number is busy or who does not answer, you can then activate automatic redialing which will call that same subscriber again after about 10 seconds.



After around 10 seconds the hands-free calling function of your phone is activated and the number is dialed automatically. This is repeated for up to around 2 minutes.

Up to 20 call attempts are made if the subscriber can still not be reached. After 20 unsuccessful attempts, automatic redialing will be cancelled. You will hear the negative acknowledgement signal in that case.

If automatic redialing is active, the "Autom. repeat request" softkey is shown on the display. Press the right arrow button or the "Continue" softkey, to return to the normal idle state display.

Suspending automatic redialing

You can suspend automatic redialing that you have started any time using the appropriate procedure and place a normal call. To suspend automatic redialing, press the open listening/hands-free button during automatic redialing. After the call automatic redialing starts again.

Deactivating automatic redialing

You can deactivate automatic redialing at any time. There are no further call attempts.

To deactivate automatic redialing during the dialing process press ESC.

Yes

If you like to deactivate automatic redialing in the idle state of the phone, proceed as follows:



Autom.repeat

request



 $\overset{\star}{\sim}$

Microphone activation/deactivation, open listening and hands-free calling

Activating/ muting the microphone

The mute function allows you to switch off the handset microphone during a normal call, or the telephone microphone during hands free calling. The party you are calling will then no longer be able to hear the conversation you conduct with persons in the room (room enquiry). However, you will continue to be able to hear the party on the phone.



Speaker function

The "Speaker" function can be activated when there are other persons in the room who wish to also participate in the call. You continue to talk into the handset while this function is active. You can set the volume during the call as described on page 61.

Please inform the party you are calling that open listening is activated. »•I« indicates that open listening is activated.



When you hang up the handset while open listening is active, both open listening and the call itself are terminated.

Hands Free Calling

The handset remains in its cradle during hands free calling. The built-in microphone and the speaker are activated. Any actions are carried out using the open listening / hands-free button only. You can switch back to normal »handset« calls at any time during hands free calling by merely lifting up the handset. You can also switch from normal »handset« calling to hands free calling when you hang up the handset after pressing the open listening / hands-free button. During hands-free calling acoustic signals such as the call waiting signal are not transmitted.

Please inform the party you are calling that hands-free calling is activated. »•4« shows that hands free calling is activated.





Headset use

You can connect a headset to your telephone. Connect and configure the headset as described on page 5.

You can use the handset or the headset for making calls.

Activating and deactivating the headset

For headset operation, one of the functions buttons must be configured as a headset key. The LED assigned to this key indicates, whether the headset in switched on or off (LED on or off).



Activating and deactivating open listening while using the headset



Message

The message function allows you to establish a connection to a different telephone, without this connection having to be actively accepted (picking up the handset, hands-free calling or loudspeaker). This is a simplex (one-way) call in which only the party that initiated the message will be heard.

As soon as a telephone accepts the message, the connection is established. You will hear a brief acoustic tone before the actual message.

For a message call, enter the internal number of the party you wish to call. You also only need to enter the internal number with direct exchange line access. For example: *22« instead of **22«.

When a message comes in for your telephone, the number or the name of the party sending the message appears in the display. The message is preceded by a brief acoustic signal over the speaker. The message can be terminated at any time by pressing ESC.

Messages are accepted automatically by the phones being called by activating the open listening function when:

- the phone is idle.
- messaging has been enabled for the pabx (control by means of the »Enabling messages
 « function key).
- »Station guarding« is not active.



Messages can also be received even if the »Station guarding« function is active when the »Enabling messages« function key has been programmed and is activated.

You can initiate a message using the procedure described in the following, or using a programmed function key. You can also initiate a message during an ongoing call (inquiry call) using the corresponding function key.

You	can only utilize this function if the messaging feature for your MSN extension number.	has been enabled in the
Begin as	follows:	
÷	Menu A coustic Message	
	Enter the telephone number, for which the message is to be given, or select an entry from the telephone directory.	⊲ Message to MSN-1 Tel. drctry
	As soon as a telephone accepts the message, the connection is established. Press the open listening/hands-free button to end a message.	⊲ Message 22 00.24 MSN-1 Display memo

Intercom

The intercom function allows you to establish an internal connection to another system telephone without the called system telephone having to accept the call actively (lift up handset, hands free calling/activate open listening). This is a call in which both parties can speak to one another.

As soon as the system telephone has accepted the intercom call, the connection is established. You will hear a brief acoustic tone before the actual intercom call begins. If one of the parties picks up the handset during an intercom call, the call becomes a standard type of call.

For an intercom call, enter the internal number of the party you wish to call. You also only need to enter the internal number with direct exchange line access. For example: *22« instead of **22«.

When an intercom call comes in for your system telephone, the number or the name of the calling party appears in the display. Intercom calls are preceded by a brief acoustic signal over the speaker. The intercom call can be terminated at any time by pressing the ESC key. Intercom calls are accepted automatically by activating the "Hands- free« feature when:

- the telephone is idle,
- the intercom feature has been enabled for the pabx (control by means of the »Enabling intercom« function key).
- »Station guarding« is not active.



Intercom calls can also be received even if the »Station guarding« function is active when the »Enable intercom calls« function key has been programmed and is activated.

You can initiate intercom calls using the following procedure, or using a programmed function key.



Automatic completion of call

Using the function automatic completion of call to busy subscriber feature, you can reach a party whose line is busy or who is not near his or her telephone. You are then notified that the party for which completion of call has been configured can now be reached. You receive this information from the exchange office for external call-backs and from the PABX system for internal call-backs.

The telephone display then indicates "Autom. callback". This display alternates every 2 seconds between the number or name of the desired party. As soon as you accept this information (by picking up the handset, for example), the selected party is called automatically.

Completion of call to busy subscriber (CCBS)

You hear the busy signal when calling the extension of the person you are trying to reach. »Completion of call to busy subscriber« allows you to call the extension as soon as the other subscriber hangs up his or her telephone.

Automatic completion of calls on no reply (CCNR)

When you call the desired number you always get a ringing signal, but the party is not near the phone or does not answer. Using the function »Completion of call on no reply« you can reach the party immediately when he/she ends a call, or lifts and then replaces his/her hand-set.



Programming completion of call to busy subscriber





)



Dial number

Subscriber busy or does not answer

```
Clbckbusy
```

The »C1bckbusg« softkey is only displayed, when automatic completion of calls are possible with the exchange office or with the pabx. The features »Completion of call to busy subscriber« or »Completion of call on no answer« must be applied for at your service provider for external call-backs.

You can configure three call-backs at a time. If you are using an LCR procedure (e.g. the LCR procedure of the phone), the »Completion of call to busy subscriber« function is carried out automatically via your standard network service provider.

If automatic redialing is active, the »Clbckbusg« softkey is shown on the display. Press the right arrow button or the »continue« softkey, to return to the normal idle state display.

Viewing and clearing call-back calls

When the phone is in idle, any call-back calls that are initiated can be viewed in the display by pressing the softkey »C1bckbusg«. Press this softkey to view the call-back calls. You can then view the individual completion calls using the arrow keys. If you wish to delete a call completion, select this call using the arrow key and then press the menu key, followed by the »delete?« softkey.

All completions of call are automatically deleted after a predefined period. This time is set by the service provider for external call-backs and by the PABX system for internal call-backs.

If the ISDN telephone is disconnected from the ISDN network, (for example by unplugging the ISDN connector of the phone or by switching off or resetting the pabx), all requested call completions will be lost.

Parking

The parking function allows you to interrupt a call for up to three minutes. You can then unplug the plug-in connector for your ISDN system telephone from the ISDN outlet and plug it in in a different room. You can continue with the previous call after »unparking« it. Or you can »unpark« the call at a different phone and continue your call there.

Parking is only possible when only one connection is currently active with your ISDN telephone. After you unpark the call, the number for the parked subscriber will no longer be shown.

A »parking code« (0.... 99) is used to ensure that you are returned to the proper call when two calls are parked. The default parking code is 55.



If you park two calls on an ISDN bus this bus is then disabled for further calls. "Unparking" is possible only on the bus on which the call was also parked. Parking is only possible when only one connection is currently active with your telephone.

Parking

)			OK	¥	Disconneo then reco	ct and nnect
Conversati- on	park	Enter park code				
Unparking						
×				OK	^ ►)
		unpark	Enter park code			Conversation

Malicious call identification (MCID)

If you receive a prank or malicious call, you can arrange for the number of the caller to be saved at the exchange.

To enable this feature (Malicious call identification), it must first be applied for at your network service provider.

Identification of the caller is effected in the exchange and the number stored there with information on the number of the caller, the date and the time of the call.

You can use this feature in 2 situations.

Malicious call identification during ongoing call





Keypad and tone frequency dialing (dtmf dialing)

During an ongoing call you can take advantage of other features using keypad sequences or DTMF dialing. In the telephone configuration program you can set whether keypad sequences or DTMF dialing is to be possible in the initial status of the telephone. The display indicates which other functions (keypad or dtmf) are possible.

»dtmf « softkey is displayed.

»Keupad« softkev is displayed.

dtmf sequences can be entered right away and keypad sequences only after you press this softkey.

keypad sequences can be entered right away and dtmf equences only after you press this softkey.

Keypad and dtmf sequences can also be stored for function keys, which can then be used during a call.

Keypad

Using the Keypad function you can manage service or features in the PABX system or in the network of the service provider by entering character strings and digit sequences via the keypad. Ask your network service provider about this and consult the manual for your PABX to determine whether »Keypad« is supported.

	7	





Keypad Input of character strings and digit sequences

Tone Frequency Dialing (DTMF dialing)

Using tone frequency dialing, you can transmit multifrequency signals (DTMF signals) during an ongoing call in order, for example, to poll your answering machine or for using mail systems. If call waiting is active for an ongoing connection, tone frequency suffix dialing can not be utilized.





dtmf Inp







Conducting calls with several parties

Call waiting

If, during an ongoing call, a second call comes in for you, the second call is signaled when "Call waiting on" is set (see page 67).



You can take a waiting caller, reject the call, or switch to a different subscriber. You can not transfer any calls if you already have four calls on your phone.

Enquiry Call

You have the option of establishing up to three other connections during an ongoing call using the enquiry call feature. You can also use the MSN assignment key, a line key or an extension key to initiate an enquiry connection.



If you wish to set up further connections, proceed as described above.

An active connection can be terminated by pressing the key for ending a call. You can return to the call that was previously put on hold. If there are no other calls on hold, a new connection can then be set up.

Call transfer (switching)

When a call is transferred, the active subscriber and the subscriber for the connection previously put on hold are always connected with one another.

You can initiate an enquiry call yourself (e. g. in order to announce the call) and can then transfer the call.





Please note that this feature (ECT - Explicit Call Transfer) must be supported by the PABX system when transferring two (2) external calls, or, when you use your phone directly on the network termination unit, of your network service provider.

Broker's call

If you have more than one connection active at your telephone (call waiting or enquiry call) (max. of four connections), you can talk to these parties alternately (Broker's call). For this, there are up to four softkeys available, depending on the number of connections on hold ("conn1«,... "conn4«). If the number or the name of the other party is known, the associated name or number is shown in the display instead of the text "Connection «.



If you have configured extension and line keys you can also carry out Broker's calls between different callers using these keys.

To terminate an active connection, press the disconnect key. You are then returned to the call that was previously put on hold.

Three-party conference

If you have an active connection and a connection on hold at your system telephone, you can initiate a conference call with these two parties. All three parties can speak to one another. Conference calls are not possible with more than two (2) connections at your phone.



To end the three-party conference, press the softkey "return_to_". You are reconnected with the subscriber of the last previous active connection. The other subscriber is put on hold.



Telephone operation

Telephone directory

You can store up to 250 names and numbers in the telephone directory. To select a name, you can page through the directory using the arrow buttons, or enter the specific first letter(s) of the name using the push-button set.

If the name of the caller is to be shown in the display instead of the caller's number, this number must be entered in the telephone directory with that name (includingprefix and, when used with a PABX, the line access digit). Display of the caller name is only made when the transmitted number corresponds to the number stored in the phone directory.

If the telephone is disconnected from the ISDN network and then reconnected, or if the data for the telephone directory are transferred to the system telephone via the PC program, the directory must be reorganized internally. This process takes place automatically and may require a few minutes. During this time, the telephone directory of your telephone is not available for use.

Settings for telephone book entries

Name and number

Each telephone book entry consists of a name (20 characters max.) and a number (26 digits max.). The assignments for the keypad for entering letters, digits and special characters are described on page 11.

Outgoing number (MSN assignment)

You can assign a number to each entry ("MSN-1« \dots "MSN-1@") that is to be transferred to the party being called for outgoing calls. To set up a connection with this MSN prefix first dial the number in the telephone directory in call preparation and then lift up the handset of your phone. If you establish a connection using an MSN assignment key the number (MSN) for this key is displayed at the party you are calling.

To define the number ($MSM-1 \ll MSM-1 \otimes MSM-1$

Special dial (VIP tone) tone

You can program a special dial tone and for each entry and set the volume separately. A call is signaled using the set special ringing tone when the caller also transmits the corresponding number. This special ringing tone will then have priority over the ringing tone assigned to the selected MSN.

Info text

You can store an info text for each entry. The information text is diplayed if:



- you select an entry in the telephone directory with the OK key during call preparation.
- you press the softkey »Info« when a call is signalled.
- you press the softkey »Display« during a connection.

The info text length is restricted to 42 characters. The assignments for the keypad for entering letters, digits and special characters are described on page 11.

$\overset{\checkmark}{}$ (Menu) Program nos. Tel. drctry Neu Enter the name. Input telephone book In this example: »Dean«. (OK) Confirm your entry by pressing OK. Name>Dean_ Insert a number. Input telephone book In this example: »0123456«. (OK) Confirm your entry by pressing OK. Number>0123456_

Adding an entry to the telephone book

Editing a telephone book entry




Deleting a telephone book entry



Programming a special dial (VIP tone) tone for a telephone book entry

Begin as follows:							
\checkmark	Menu	Program nos.	• Tel. drctry	Sp.ton.	call	Select entry	OK
 ОК 		Press the arrow but tone melody. Confirm your entry	uttons to select the by pressing ok.	ringing	Dean, Melody 	James	++ 12
OK		Use the arrow butt Confirm your entry	ons to set the volur by pressing OK.	ne.	Dean,	James	÷÷

Programming an info text for a telephone book entry

Begi	n as fo	ollows:						
×	Menu					OK		OK
		Program nos.	Tel. drctry	Info	Enter first lette	r	Select entry	
ОК		Enter the dat Confirm your	a for the tele entry by pre	phone boo ssing OK.	k entry.	Add. ir Sen. en	nfo. for f entry g. testco	tbook m



VIP Memory

You can program VIP numbers for each of the ten buttons 1 \dots 0 including a name (20 characters max.) and a telephone number (26 digits max.).

\star Menu (OK) VIP Select VIP Program nos. New destination Enter the name of the VIP target. In this exam-Program VIP name ple: »Dean«. OK Confirm your entry by pressing OK. V0>Dean_ Insert a number. Program VIP number In this example: »012345«. OK Confirm your entry by pressing OK. V0>012345_

Making an entry into the VIP memory

Editing a VIP entry

Begin as follows:						
¥	Menu				ОК	
	Program nos.	VIP	List	Select VIP destination		
OK	Change the existing n page 11. In this example: »Dean Confirm your entry by p	ame as des , James«. pressing OK.	cribed on	Program (V0>Dean, Ja	JIP name	
ОК	Change the MSN exten bed on page 11. In this example: »0112 Confirm your entry by p	sion number 2334455«. pressing OK.	as descri-	Program VI V0>01122334	(P number 1455_	



Caller and memo list

The phone has a combined caller and memo list. A maximum of 30 entries (calls, memos SMS messages or UUS1- messages) are stored in this list. Entries in the caller or memo list are indicated by the softkey »Caller list«. You always have the most current entries in the list. The most recent entry is displayed first.

When you press this softkey the number of new entries is shown on the display (for example: »New calls: 4!«) and the number of new SMS or UUS1 messages (for example: »Messages: 2«).

Also shown in front of each entry is the number for that entry in the list and the total number of all entries in the list.

For example: »3/10: 1122334455..... *«.

If the number in this entry is identical to a number in the telephone directory (phone directory of the telephone or the pabx) the name is displayed instead of the number. You can also view the time and the date of each entry as well as information (if applicable) about it. If you lift up the handset of your phone while you are viewing an entry in the list, that caller is then called automatically. Single entries can be selected for deletion.

Caller list

Calls that you do not accept, or that you specifically refuse, are stored in the caller list. When a call is made with a subscriber from the caller list (you call or you are called), the entry is automatically deleted and transferred into the redial memory.

Memo list

You can store a telephone number under a scratchpad memo. You can not input letters or any other special characters. When a call is made with a subscriber from the scratchpad list (you call or you are called), the entry is automatically deleted and transferred into the redial memory.

You can enter a memo during a call or in the idle state. The following entries in the list are possible:

- Manual entry.
- Telephone number from short dialing memory.
- Telephone number from directory.
- Telephone number from direct dialing memory (Function keys).
- Number from the redialing memory.

SMS / UUS1 messages

When you receive a new message the number of messages you have received up to that time is displayed when the telephone is in the idle state. The phone number, or the name of the party who sent the message, and information about the type of message (SMS or UUS1) are shown in the caller list. When you press the menu key you can read the received message immediately, or save it in the list of SMS or UUS1 messages for reading at a later time. After you view a new message that is located in the list of saved UUS1 or SMS messages, that message is then deleted from the caller list.



 $\overset{\checkmark}{}$

The telephone is idle. The softkey »Caller list.« in the lower row of the display indicates that an entry is present in the list. Press this softkev.

The bottom lines show the entries available in					
the caller list. The active entry (the one you					
nave selected with the arrow buttons) is high-					
ighted.					

UUS:	2	08:	30		÷
Tel.	drctr	·Ч		<u> </u>	
				QUIE	9t
VIP		~ .			
		Cal	ler	· 119	st.

call	today	\leftrightarrow
	07:21	MSN-1
1/09:	Miller	office*
2/09:	TONY	*
3/09:	123456	n
4/09:	Purchas	ing*

In the upper rows of the display you see the type of entry (»call«, »memo«, »UUS«, »SMS«), the date (for the first two days »today« or »yester day«), the time and the number (MSN).

- New call or new UUS1 or SMS text message »*« Call ».a« Memo »П«
- Call ignored by call filter »i«

When you view the caller list again, entries that you have already viewed but not deleted are no longer marked by »*« on the display, but rather by »r«.

You can view other entries using the arrow buttons.

UUS	yesterday ·	€÷
	15:24	
5/09:1	12233445566	n
6/09:	Sales	*

Further information about a call / memo



If you wish to view more information about the entry, select the entry using the arrow key and then press the menu button.

You now have the option of deleting the number, store it in the telephone book or have more information displayed for the selected entry. You may want to press the softkey »Info« for example.

Call-box T	Today ↔	÷
07::	21 MSN-1	
1/09:Mill	er office…*	
2/09: TONY.	*	ĸ

1/Miller of	fice →
Call today	07:21
MSN-1	Info
Tel. drctry	
delete?	
	continue





The display now shows information about the call. If not all information fit into the screen, use the arrow keys to display more.

Press the C-button to leave the menu. You can then use any one of the other options.

1/Miller office	2
0123456789	
to MSN-1	
(& MSN-2)	
call today	07:21
(2 x call)	

»delete?«	The entry is removed immediately.
»Info«	Viewing further information about the call.
	For example: The MSN extension number to which the message was sent
	and the telephone number of the sender.
»Tel. drctry«	Entering the number of the caller in the phone book of the phone.
»continue«	Viewing the next entry in the caller list.

Further informationen about a text message (SMS / UUS1)

Menu	If you wish to view more information about the entry, select the entry using the arrow key and then press the menu button.	UUS yesterday ↔ 15:24 MSN-5 5/09:112233445566 n 6/09:Sales *
	Press the right arrow button to have the »Tel. drct.rug« softkey displayed.	1∕Sales → UUS yesterday 15:24 MSN-5 Info read
	Press the softkey »read«.	delete? continue
	The arrow (»↓«) in the top row indicates an in- coming text message.	* UUS 01/03 ↓ MSN-1 Sales Thanks! Let's meet at 15.30
OK OK	If the message is not displayed completely the rest of the message. Press ok if you have finished reading. Sie ko Optionen nutzen.	press the arrow keys to view onnen dann eine der weiteren
»save« »delete?« »Info« »Tel. drc:	Saving the message in the corresponding I the entry in the caller list. The message is deleted immediately and a Viewing further information about the mess For example: The MSN extension number to and the telephone number of the sender.	ist of messages and deleting dded to a list of messages. sage. which the message was sent one book of the phone.

»continue« Viewing the next entry in the caller list.



Deleting the caller / memo list



Entering the number of the caller in the phone book of the phone

Begin as fo	ollows:						
×			Menu		•		
	Caller list	Select entry			Tel.	drctry	
OK	Enter the name. In this example: De Confirm your entry	an. by pressing Ok	ζ.		Input Name>	telephon Dean_	e book (Abc)
	The memo or caller instead of the numb	list then display per.	/s the na	me	5/De. Call	an today	08:12 Info

Entering a memo

You can add a memo number from:

- the telephone's phone directory (»Tel. drctry« softkey)
- the direct dialing memory / function keys (»direct.« softkey)
- the VIP memory (»UIP« softkey)
- the redial list (»redial « softkey or redial button)
- or add a new number manually (»New« softkey)

The following example describes how to add a new number as a memo.







Enter the number you wish to store as a memo. In this example: »0123456«. Confirm your entry by pressing OK. Memo number create

>0123456_

SMS and UUS1 text messages

With this phone you can send and receive SMS or UUS1 messages (SMS - Short Message Service, UUS1 - User to User Signalling). You can input a text message using the keypad on the phone.

Sending and receiving of text messages is only possible when the sender has his/her number transmitted to the receiving party, where it is also displayed. This is why text messages are not transmitted, or not displayed on the telephone, when the phone number is not transmitted with the message.

An incoming text message is signaled by two brief acoustic tones in the phone. If the phone is idle, the number of messages received is displayed, along with information about these messages in the caller list.

SMS Text Messages (subject to terms of network provider)

SMS allows you to send and receive text messages to/from other phones in a fixed-line network or to/from cell phones. A short message is restricted to 160 characters.

Sending/Receiving of SMS messages is only possible:

- When you use this telephone with a system telephony pabx system that supports the SMS feature.
- When you have registered this feature at your network service provider, or the provider of the SMS center for your ISDN connection.
- When the phone number for the SMS center is stored in the telephone.

Consult the provider of the SMS center that has been configured to establish in which mobile communication networks SMS messages can be sent and the costs for sending and receiving SMS messages. This telephone does not support the transmission of SMS messages with special content (for example images, audio).

The telephone stores all SMS messages you have received or sent in two separate lists. Up to 10 received an 10 sent SMS messages can be stored.

Please not that free storage space must be available to receive SMS messages. You cannot receive more than 10 SMS messages.

SMS messages you have sent can be stored in a list. If this list is full, then the last SMS sent is stored temporarily.

UUS1 text messages

You can send text messages from one telephone to another without having to call that particular subscriber. UUS1 text messages are limited to 31 characters.

UUS1 text messages can also be sent to internal and external telephones. You can only use this feature with external telephones if »UUS1 (User to User Signaling)« has been applied for (and approved) for your ISDN connection.



Note that all terminal devices that are used (telephones, pabx systems) must support the feature »UUS1 (User to User Signaling)«.

The telephone stores all UUS1 messages you have received or sent in two separate lists. Up to 10 received an 10 sent UUS1 messages can be stored.

Please not that free storage space must be available to receive UUS1 text messages. You cannot receive more than 10 UUS1 text messages.

UUS1 messages you have sent can be stored in a list. If this list is full, then the last UUS1 message sent is stored temporarily.

Creating and sending text messages

You can send a text message to a number stored in your telephone (telephone directory, VIP memory or direct dialing memory), or input a new number for sending. To do this, press the appropriate softkey "Tel. drcrtg«, "direct«, "UIP«, "New« or "redial« in the menu "Send mail«. To select a number assigned to a function key ("direct«) or to dial a number from the redialing memory you can also press that corresponding key.

When sending text messages the first number (»MSN-1«) entered in the telephone or the number specified by means of the user key are transmitted with the message. $\mathbf{\dot{\mathbf{x}}}$ SMS or UUS Send mail Message Example: Creating a UUS1 text message Insert the text. Send mail In this example: »Meeting 9.30 to 11.00 (OK) UUS>Meeting 9.30 a.m. George«. to 11.00 a.m. George_ Confirm your entry by pressing OK. Press the corresponding softkey to select a Send mail/UUS number stored in your telephone, or press Repeat »New« to enter a new phone number. For ex-Tel. drctry ample: »New«. New VIP direct Insert a number. Define tarqt. numb. For example: »2200«. (OK) Confirm your entry by pressing OK. The text >2200_ message is transferred to the defined recipient.





Finally, you can store the text message in the appropriate list (»ok « softkey) or keep it in the temporary memory (»No« softkey).

	Save	message?
No		
		ok

Important notes for entering numbers with SMS transmission

If the »Direct exchange line access« feature is switched off for your telephone, then you must enter the line access digit before the target number. The line access digit must be stored in the telephone.

When the telephone is connected to a pabx for which direct exchange line acces has been programmed, the you can dial the target number directly.

Viewing newly received text messages

A new message can be displayed from the caller list (see page 33) or from the received text messages list. Once you have read a message from the list of temporarily stored text messages, it is deleted from the caller list.

Viewing received or sent text messages

The following features are available when viewing temporarily stored text messages:

- Resending a text message. You can edit a text message before actually resending it.
- Deleting a text message.
- Entering the number, to which the text message was sent or from which it was received into the telephones directory.
- Putting a text message into the list of permanently stored messages (UUS1 only).



Example: Reading a received UUS1 message

The most recently added text message is displayed first. A new, unread text message is marked with an »**«. The following information can be displayed for a text message:

- Number of the text message in the list (in this example:»01/03«).
- Received (»↓«) or sent (»†«) text message (in this example: »↓«).
- Number, for which the text message was sent (in this example:»MSN-1«).
- Number of the sender / receiver (in this example: »2200«).



OK	Press mess Press optio	s the arrow keys to view the entire text sages. s OK to access the next menu with further ns.	* UUS 01/03 ↓ 2200. I'LL PROBABLY BE 30 MINUTES LATE.			
	In the and t To se softk	e upper row of the display you see the date he time, when you received the message. elect an action, press the corresponding ey.	UUS 01/03 today → ↓ 10:36 MSN-1 Save text send delete?			
»send«		Editing and then sending the text message. To send the text message, please proceed and sending text messages« (see page 38).	as described for »Creating			
»Tel. drctry«		If you wish the sender's or receiver's number stored in the telephone di- rectory, press the right arrow button and then the "Tel. drctrg" soft- key. Enter the name for the phone book entry and confirm by pressing OK.				
»continue« »Text Save« (UUS1 onlv)		Viewing the next temporarily stored text message. Moving the text message to the list of permanently stored message. To do this, use the arrow key to select the storage location and confirm by pressing OK.				

Permanently stored text messages (UUS1 only)

You can store up to five UUS1 text messages permanently in your telephone. You can then edit, delete or send these text messages. You can only input these messages directly into your telephone.

Begin as fo	llows:				
~					
		Message	UUS	Select	. text
	Press the a	arrow keys to sele	ect a text mes	ssage.	Select text ++
					1: 2:
					3:
OK	Press the C sing OK.	OK to enter or cha	ange that text	message.	Confirm your entries by pres-
Menu	Press the r	menu key to send	d or delete a r	messa-	cand
	ge.				
					delete?



»send«	Editing and then sending the text message.
	To send the text message, please proceed as described for »Creating
	and sending text messages« (see page 38).
»delete?«	Deleting a text message.

Automatic sending of text messages (only UUS1)

You can send a UUS1 text message automatically to a caller. For this, message 1 in the list of permanently stored messages is used.



Configuring the text message reception mode (UUS1 only)

You can program your telephone for external or internal UUS1 text message reception. Reception of external and internal text messages can be inhibited separately. You can program the telephone directory in such a way that specific text messages can be received.

If you have disabled reception, external or internal text messages can only be received when the sender's phone number has been stored in the phone book with a special call signal.





Error when sending or receiving an SMS

Error while sending an SMS

A corresponding error code is displayed in the event that for some unseen reason it is not possible to transmit an SMS. Contact the SMS Service center of your network service provider / carrier to find out which error codes are displayed.

Error while receiving an SMS

There may be various reasons for it not being possible to receive an SMS, or for only having voice output:

- The feature SMS has not been applied for (and approved) at your network service provider and/or the provider of the SMS Service Center.
- The SMS has been transferred by outside service providers which did not transmit this message as an SMS.
- Permanent number suppression (inhibit) is activated for your ISDN connection.
- Ten SMS messages have already been stored in your telephone, preventing any further SMS messages from being received.

Station guarding

If you do not wish calls to be signaled with the programmed melody and volume, you can active the »Station guarding« feature. Depending on the specific setting, all calls will be displayed optically or along with a brief acoustic signal. To set the volume for the brief acoustic signal, proceed as described on page 62. In the idle state an »r[•]« or »R« in the display shows that the function »Station guarding« is activated.

»No« The function »Station guarding« is deactivated.

»Ringing signal off«

»ok«

Calls are signaled optically only (»Q« shown in the display).

Calls are signaled first by a brief acoustic signal and then only optically displayed (»q«).



Quiet No/Ringing signal off/ok



Setting up cost monitoring

You have the option of logging the accrued communication costs for your telephone. You must apply for this feature to your network service provider.

Ask your service provider on the possibilities of charge data transmission. Please note that transfer of all cost information from the exchange office to your telephone may not always be possible for technical reasons. Any price reductions and special rates or convenience features utilized may result in differences between the data stored in the telephone and information listed in the phone bill.

Procedures for charge rate transmission

There are several standardized procedures for transmitting call charge rates. Usually the same procedure is employed at one connection that is recognized and stored automatically for future use by the telephone.

In the event that the type of charge information transmission is not stored in the phone, "Wrong charge type« then appears in the display.

In this case you should delete all charge information stored in the telephone (see also: viewing/deleting total costs). Recognition and saving of the procedure that is used for transfer of cost information is then re-activated.

You can set the tariff factor and the currency while configuring your telephone with the PC.

Viewing and deleting costs

If you have implemented PIN protection for your phone's configuration (see page 58), clearing of the charge rate accounts is also PIN protected. After pressing the softkey »delete?« you then need to enter the PIN.

Viewing/deleting costs for the last call

Begin as follows:			
×		Last conn.	: → 0.18 GBP
	Charge	Last conn.	
		delete?	Iotal

The charges for the last call are shown. To delete them, press the »Delete« softkey.



Viewing and deleting total costs



You can view the sum of the charges accrued for all MSN extension numbers. To delete them, press the »delete?« softkey.

If the sum of the costs is deleted, all MSN cost accounts are also deleted simultaneously and recognition and saving of the procedure that is used for transfer of cost information is then re-activated.

Viewing/deleting costs for specific extension numbers (MSN)

Begin as follows				
×	O Charge	MSN-2	MSN-2: MSN-1 MSN-2	0.31 GBP MSN-3 MSN-4

You can view the sum of the charges accrued for a particular MSN extension number. In this example for »MSN-2«.



To delete the total costs for the selected extension number (in this example MSN-2), press the left arrow button and then the »delet.e?« softkey.

MSN-1:	÷÷
	0.31 EUR
Last conn.	
	Total
delete?	

Setting the tariff factor and the currency

Begin as follow	/s:
Menu	• • •
	Configuration Charge
»Charge«	Enter the new charge factor and confirm your entry by clicking »OK«. The charge factor length is restricted to 4 characters. To enter a comma, use the asterisk key.
»Currency«	Enter the new currency and confirm your entry by pressing OK. The cur- rency name is restricted to 6 characters. The assignments for the keypad



for entering letters, digits and special characters are described on page 11.

»delete?« All charge data stored in the telephone are deleted. Recognition and saving of the procedure that is used for transfer of cost information (see page 43) is then re-activated.

Programming a charge limitation for a specific extension number

You can set up a charge account for each number (MSN) that has been entered in the telephone. An amount in the configured currency that is available for making calls will then be allocated to this account for the defined number (MSN). Once this amount has been exhausted, only free-of-charge calls can be directed for this MSN extension number. When you have programmed specific dial ranges for this telephone, calls with costs can be directed to the unrestricted numbers.

If this limit is reached during an ongoing call, the call can be completed.

When the amount for the account is increased, or when the accrued charges are cleared calls with costs can again be made.

Attention: Not all service providers transfer charge rate information. If you make calls using a service provider which does not transmit charge information, the charge account is ineffectual.

Configuration of a charge account for a phone number (MSN) is described as follows using MSN1 as the example.



If you enter the amount available for making calls as »@«, the charge account is not activated.

Enabling or inhibiting an extension number (MSN) for outgoing calls

Each number stored in the phone (*M5N-1«... *M5N-1@«) can be enabled or inhibited separately for outbound calls. If you have inhibited an MSN for outgoing calls, no outgoing calls can be initiated through this number (e.g. MSN assignment via function key). Incoming calls can continue to be received by this number.

If you attempt to set up a call using a number that has been inhibited for dialing, the following



message is shown in the display »Inhibit.:MSN«.

Enabling or inhibiting of a number for outgoing calls is protected by an MSN-specific PIN. You must enter this PIN in advance during configuration of the number (MSN). After that, you can inhibit or enable dialing of external numbers (outgoing calls) for this MSN.



A check mark displayed next to the individual softkeys indicates the current status.



To inhibit dialing of external numbers for a specific MSN press the softkey "inhibit.". To re-enable a number (MSN) for outbound calls, press the softkey "enable".

inhibit		MSN-1	?
inhibit			
TUNIDIC	فيعلمه فالمرفية		
	TUNIDIC		
enable 🗸		enable	× .

Displays during a call and charge information

The following displays are possible during a call:

Call display for phone number (»0123456«).	0123456 display	MSN-1 Memo
Call display for phone number (»0123456«) and time (»07: 41«).	0123456 07:41 display	MSN-1 Memo
Call display for phone number	0123456	MCM-1
(»0123456«) and duration (»32. 43«) of the call. For exam-	52.75	Memo
connections or when there are no charge data available.	display	
Call display for phone number	0123456	
(»0123456«) and charges (»0. 36 GBP«).	0.36 GBP	MSN-1 Memo
	display	
Call display for date (»29.05.03«) and time (»07:41«).		→ MSN-1 Memo
	display	

Correct charge display is shown only if you have applied at your network service provider for transmission of charges during calls.



Displaying information during a call

The displays during calls described as follows depend on your individual settings and can therefore be different for each connection. Correct charge display is shown only if you have applied at your network service provider for transmission of charges during calls.

.

elmeg

)	During a call, the upper rows of the display show the number or the name of the other par- ty ("TŪNY") and the duration of the entire call ("22.43"). Press the "display" softkey.	TONY 02.43 display Mic.muted	MSN-1 Memo Keypad Parking
	You are then shown other information available on the current connection. Date (*29. 05. 03«), time (*07: 41«), associated number (*0987654321«), Costs (*0. 36 GBP«), duration of the call (*07. 55«)	TONY to MSN-1 12.12.02 12:0 0987654321 0.36 GBP	91 02.55
	Press the arrow key to display further information (if If you are the destination of call rerouting, you will I being rerouted (»U+123«), when it is transferred.	available). De shown the nur	mber that is
	You see the normal display again during a con- nection.	TONY 03.33 03:33 display	→ Memo
•	After finishing the call you see for about 5 se- conds the following display.	TONY Costs	0.36 GBP

Selecting the type of data and charge information displayed during a call

Begin as follow	rs:			
★ Menu				
	Configuration	Display	Conversation	
»Conversatic »Duration«	on «Programming the The following optic »Date+Time«, »To »Tnumb+Charge« Programming the The following optic »A1ways«:During a	call data displa ons are availab e1. numb. c call duration d ons for displayi a call, the displa	ay mode le: m1y«, »Tnumb+Time lisplay mode ng the call duration ar ay shows the duration	e« or re available: h but not the char-

ges.

»Never«:The charges are displayed during a call. The duration of a call is not displayed.

»for Change«: Charge data, if available, are displayed. If no charge data are available, the duration is displayed instead.

»End« Display of information after completion of a call Information about a call can be shown in the display when that call is completed. You can, for example, have the duration of the call or the charges accrued for the call displayed.

Programming the calling line identification mode (CLIP/CLIR/COLP/COLR)

Begin a	as follow				
÷	Menu				
		Configuration	Display	MSN ext.	
»Incom	ing«	Press the »Incomi played at the called cates that calling lin	ng« softkey to I party. A check ne identificatior	have the number mark displayed r 11 is active.	rs displayed or not dis- next to the softkey indi-
»Out.go	ing«	Press the »Outgoi played at the called cates that calling li	ng« softkey to I party. A check ne identificatior	have the number mark displayed r n is active.	rs displayed or not dis- next to the softkey indi-



System telephony

The system telephone is designed for being connected to the internal ISDN connection of specific elmeg pabx systems.

When operated at these pabx systems, your telephone offers you a variety of typical features. For example:

- Dialing from the telephone directory of the PABX (see page 14).
- Message and Intercom (see page 21, 22).
- Special function keys (see page 49).
- Access to the system menu of the pabx (see page 54).

Please refer to the operating instructions of your PABX to determine whether these typical system features are provided with this particular telephone.

Function keys

The system telephone is equipped with five function keys, which you can program on two levels with different functions.

Each key is equipped with two-color LED that can be used to display the active function. Each color is assigned to a particular level for the function key.

Function key examples

Direct dialing buttons (see page 15)

dtmf/ keypad sequences (see page 26)

Defining the (MSN) extension number for the next call (MSN assignment)

You can conduct an internal or external call such that a defined number (MSN) is transferred from your telephone to the party you are calling. This number must have been entered previously in your telephone.

Line buttons

A B channel for an external ISDN connection is configured for a line key. When this key is pressed, hands-free calling is activated automatically and the corresponding B channel of the ISDN connection is accessed. You will hear the external dial tone.

If an external call is signaled at a different in-house telephone you can accept this call by pressing the line key.

Trunk bundle buttons

With modular pabx systems (elmeg ICT or higher) you can group several ISDN connections to trunk bundles. By means of a trunk bundle button, you can assign these ISDN connections to a function key. When this key is pressed, hands-free calling is activated automatically and the corresponding B channel of the ISDN trunk bundle is accessed. You will hear the external dial tone.



Extension key

You can configure dialing to an internal extension using an extension key. When the corresponding key is pressed hands-free calling is activated and the listed subscriber called. If a call for the listed subscriber is signaled you can accept the call by pressing the extension key.

Team keys

A team key is a normal line key to which the internal number for a team is assigned. When the corresponding key is pressed hands-free calling is activated and the listed team called. If a call for the listed team is signaled you can accept the call by pressing the team key.

Team function log-on/ off

If you are entered as a subscriber in the call switching modes of one or more teams you can configure a key so as to control the call signaling of your telephone. When you are logged in, team calls will be signaled at your telephone. No team calls are signaled at your phone if you are not logged in.

Day / night modes

You can configure a key so that you can switch between the call switching modes of the PABX (Day/Night modes) when that key is pressed. The pabx uses call modes for signaling team or door terminal calls, for example.

Message (see page 21)

Message on/off

You can also explicitly inhibit or enable receiving of messages using a corresponding function key.

Intercom (see page 22)

Activating intercom calling on/off

You can also explicitly inhibit or enable receiving of intercom calls using a corresponding function key.

Boss/secretary feature

This function enables the interaction between the phones of the secretary and the boss. Here, a special extension key with the number of the boss phone is assigned to the secretary phone, and one with the number of the secretary phone assigned to the boss phone.

Call filter

The call filter allows you to explicitly reject or forward calls to your system telephone. A rejected call is given a busy signal and is stored in the caller list with a special flag. You can configure the call filter using PC Configuration for the system telephone and activate or de-activate the filter using this function key.

Call rerouting (see page 66)

You can configure a button such that call rerouting is set up for a specific extension number (MSN) of your phone. When this button is then pressed, call forwarding is either activated or deactivated.

Direct call

Direct calling from the telephone (see page 69) can be configured via programmed function keys. The direct call number must be stored in the telephone before direct calling via a functi-



on key can be programmed. Deactivation of direct calls is carried out as described in the section »Direct call« (see page 69).

Headset on/off

If you have a headset connected to your telephone and ready configured, you can operate it by means of a function key.

Press the headset key to initiate, accept or end a call.

Auto-answer

Your telephone can accept calls automatically, without you having to lift the handset or press the speaker key. The time interval, after which a call is automatically answered, is programmed during telephone configuration with the PC. The auto-answer feature is activated and deactivated by means of dedicated function key.

Extension key for an answering machine

This key is a special line key to which the internal number for the answering machine is assigned. A dtmf sequence can also be assigned to this key.

When you press this key the number of the answering machine is dialed and the stored DTMF sequence then transmitted. You can use the DTMF sequence, for example, to activate the remote control function for the answering machine and listen to new messages. When the answering machine is called the speaker is activated, but the microphone remains switched off. You can also accept a call signaled at the answering machine by pressing this key.

Voice mail key

If you are using a voice mail system at the PABX to which your phone is connected (for instance a Discofone voice mail system) you can also configure a button for controlling voice mail functions. You can then set up a connection to your voice mailbox by pressing this button.

User key on/off (programming the system telephone's MSN extension number)

Normally, the first number entered in the telephone (MSN-1) is used as the default number for all settings and actions. You can set the default number for your telephone using the User key. When you press this key the default number for the telephone is changed to the corresponding phone number (MSN). The changed default number is then used when you initiate a call and when you send SMS or UUS messages.

Macro functions

You can configure the existing function keys of your telephone as self-programmed function keys. These self-programmed functions are called macro functions (macros). Macros allow you to save set routines and assign them to a specific function key. For example, you can save frequently used codes for your PABX system or specifc routine actions as a macro and call it up at a later time by pressing the corresponding function key.



LED functions

Function key / LED	lit	flashes	flickers	
Line key	Connection	Connection on hold		
Extension key	Connection			
Team key			_ call	
Trunk bundle button	no B-channel available			
Extension key for the answering machine	Connection with	AM holds active con- nection with caller	Incoming answering machine call	
Voice Mail key		New messages availa- ble		

Function key / LED	lit	not lit
MSN assignment	connection established by means of the key	
Team function log-on/log-off	logged in	logged out
Day/ night mode	night active	day active
Message	own message	
Message enable on/off	enabled	inhibited
Intercom	own intercom	
intercom enable on/off	enabled	inhibited
Call filter	active	off
Call rerouting	active	not active
Direct call	active	not active
Headset on/off	connection or connection establish- ment	no connection
Auto-Answer	active	not active
User key	modified number	default number

Each function key with an automatic LED function (e.g. line or extension buttons) can only be programmed once for each system (telephone or extension keypad).



Programming a function key

Programming of the function keys is effected during configuration of the system telephone with the PC. You can program the five function keys on two levels with different functions.

Using the function key

Press the corresponding function key. The function assigned to this key is executed. An LED associated with this particular function is switched on or off accordingly.

Press the key two times to reach the second level for the function keys. This must be executed at a short interval.

Important notes for LED functions

The status of the LEDs is not updated permanently in the system telephone. The status of the LEDs is not changed when these functions are changed or switched using a code or PC configuration for the PABX system. If the telephone is disconnected from the ISDN network (for example for Parking of a call) the LEDs will be off when the system telephone is plugged in again.

The display for the assigned LED is changed and the corresponding feature activated/de-activated in the PABX system when you press a function key.

Example: You activate the message to your system telephone using the function key and someone else de-activates the announcement via the PABX system PC configuration. When you press the function key you also de-activate the message and the assigned LED is switched accordingly.



System menu for pabx systems with system telephony capability

The system telephone is designed for being connected to the internal ISDN connection of specific elmeg pabx systems. These devices provide a special menu with further system-specific functions. This menu and the features that it contains are managed entirely in the PABX.

Accessing the system menu for PABX systems

The telephone is idle. Press the right arrow key.	<u>29.05.03</u> 07:41 →
	Tel. drctry Quiet VIP Caller list
Press the »PABX« softkey.	29.05.03 07:41 + inhibit Memo unpark Charge PABX

The description of the menu and the features which are available to you in this menu are given in the operating instructions for your PABX system.



Message

Configuration settings

Telephone numbers (MSN extension numbers)

Up to 10 MSN (extension numbers) can be configured on your telephone. When you enter an MSN or extension number in your ISDN system telephone you are essentially defining that your ISDN system telephone is called using this MSN or extension number when a call is made. If you enter more than one MSN extension number in your telephone, your phone will ring each time one of these MSN extension numbers is called.

If you are using your telephone on the external ISDN port of a pabx, enter its internal extension number into the pabx. Please observe the instructions in the PABX manual.

When you call a subscriber, you can select a certain number (MSN) that is transmitted to the subscriber (e. g. for separate charges). If you do not select any number, the number (MSN) that has been entered first in the phone (MSN-1) is used.



Entering or viewing an MSN extension number (MSN)

You can only enter the MSN extension numbers with the Professional Configurator supplied on the WIN-Tools CD-ROM. However, you can have the programmed number displayed at the phone.

In the »Program MSN-1« menu, press the »MSN ext.« softkey.

ОК

The programmed number is displayed. Press OK to leave this menu.

Pr	ogi	∿am	MSN-	-1	÷
MSN-1					
					222

You can only make further settings (e.g. call signaling melody, volume, name) if the number has already been previously configured.

Setting the melody and the volume

You can define and set a specific melody and its volume for each MSN or extension number that you enter. If you are using the telephone at an internal ISDN connection of certain elmeg PABX systems, you can program special ringing melodies and a different volume for internal calls.



In the initial setting of the telephone, 10 different melodies are stored for call signaling. These 10 melodies can not be changed. You can import a further 10 melodies into your phone via a PC. Using the Sound Manager supplied with the WIN-Tools CD-ROM, you can produce your own tunes on the PC and then load these into the telephone. These melodies are then stored in your phone as Melody 11 ... 20. Ready-to-use melody profiles for downloading to your phone are located in the WIN-Tools installation directory.

If you assign a call signaling melody to a number (MSN) that is not stored in your phone, the first permanently stored melody in your phone is then used.

Setting the melody (tone)

In the menu »Program MSN-1« press the softkey »Sound« and then the softkey »internal« or »external«. In this example: »internal«.



Use the arrow buttons to set the desired melody. The bar in the display indicates the current status. Confirm your entry by pressing ok.

Select melody	\leftrightarrow
MSN-1, internal	3

Setting the volume

In the menu »Program MSN-1« press the softkey »Volume« and then the softkey » internal« or »external«.



Use the arrow buttons to set the volume. The bar in the display indicates the current status. Confirm your entry by pressing ok.

Select	cal	1	signal	\leftrightarrow
147711 A				
MSN-1				+

In addition to steady volumes, you can also configure call signaling with an increasing volume. When this is done, the volume of the ringing tone is increased automatically as the call is signaled. When the increasing volume function is configured the following symbol is shown in the display »

Assigning a name to the MSN extension number

You can assign your own names (max. 8 characters) to the MSN extension numbers. On each of the buttons on the push-button set there are three or four letters of the alphabet. You can advance through the letters by pressing the appropriate button repeatedly (see page 11). If there are two consecutive letters on the same button of the push-button set, press the right arrow button after entering the first letter and then enter the next letter.

In the menu »Program MSN-1« press the softkey »MSN Name«.

- Enter the name desired name.
- In this example: »private«. OK
 - Confirm your entry by pressing OK.

Own MSN designation MSN-1>private_



Programming a default call forwarding number

If you do not wish to accept a call, you can forward this call directly to a different phone number (see page 16).

If you frequently forward calls to the same number, you can use this number as a default setting in your phone. If you then wish to forward a call, the default number will be presented first for you to use.

The default setting for such a number is made separately for each number (MSN) entered in the telephone.

In the menu »Program MSN-1« press the softkey »transfer«.



Assigning a specific PIN for an extension number (MSN)

You can assign separate PINs to all of your telephone's extension numbers (MSN). Using this PIN, you can enable or inhibit an extension number (MSN) for outbound calls.

In the initial state, all MSN-specific PINs are set to »0000«.

In the »Program MSN-1« menu press the right arrow button and the »PIN« softkey.

OK	Enter the specific PIN for »MSN-1« (default set- ting »0000«). If you have forgotten the MSN-specific PIN, you can access this menu via the individual PIN for the telephone. Confirm your entry by pressing OK.	Input PIN please
OK	Enter the 4-digit specific PIN for MSN-1. In this example: »1234«. Confirm your entry by pressing OK.	Change PIN MSN-1>1234_

Telephone PIN (password)

Some telephone settings and operations are protected by a PIN (password).

- Access to the telephone menus (see page 58)
- Deactivating a direct call (see page 69)
- Remote polling of the answering machine (optional module)
- Access to the »Service« menu (see page 80)





In this menu you are able to configure your individual PIN (0000... 9999). Please write down the entered PIN. If you forget your PIN, you will not be able to access any of the PIN-protected settings. In this case please ask your specialized dealer or distributor.

	Enter the new PIN.	Change PIN
ОК	In this example: »1234«.	
	Confirm your entry by pressing OK.	>1234_

Attention: The PIN is also reset to (0000) after executing the service reset for restoring the initial state (see page 83)

Protecting access to the telephone menus by a PIN

With the telephone PIN you can restrict access to the telephone menus (»Configuration«, »Setting« and »Program nos.«) and protect the stored charge data from unauthorized deletion. Before a menu can be called up (e.g. menu button and »Configuration« key), the PIN must be entered when the protection feature is active.

You can set access restrictions separately for the "Configuration", "Setting" and "Program nos." ("menus. The "inhibit" and "Service" menus are always protected by the telephone PIN. Access restrictions for the "Configuration" menu will also apply for deleting stored charge data.

Begin a	s follov	vs:					
\checkmark	Menu				(OK	
		Configuration	inhibit	Enter PIN	١		Menu
	Pre vat	ess the »Configura te or deactivate the F	t.ion« softke NN protection	ey to acti- n feature.	Setting	Configu	ration
						Progra	m nos.

A check mark next to "Configuration " indicates that the access restriction is active. Press the "Configuration" softkey again to deactive the protection feature.

Accessing a menu via the PIN:

In these operating instructions, access to menus is always described without the use of a PIN. If you set the PIN protection for a specific menu, you can access this menu as described in the following example.





Parking code (default setting)

A parking code of 55 is set in the initial state. You can change the default park code to a single- or double-digit code.



Programming the telephone name

You can assign a name (20 characters max.) to the telephone to provide it with unique identification within a PABX system. You will need the telephone name for example for configuring the telephone through the interal ISDN connection of a connected elmeg pabx. The default name entered is the telephone's serial number.



Number for the SMS center

With this system telephone you can send and receive SMS messages (text messages) to/from other phones in a fixed-line network or to/from mobile phones. (see page 37).



However, sending and receiving SMS messages is only possible, when this phone is connected to specific elmeg pabx systems. Please refer to the operating instructions for your PABX to determine whether SMS-features are provided with this particular telephone.

To send or receive SMS messages with this telephone, the number for the SMS service provider must be stored in the telephone. The default number stored is »0193010« for the SMS center of Deutsche Telekom. To change this number, proceed as described below.

Begin a	s follows					
÷	Menu				OK	•
		Configuration	Service	Telephone PIN		SMS
	Ente	er the number for the	e SMS servio	ce provider	SM	15 Center
5	with	nout the line access	digit.			
OK	For	example: »019301	0«.		MSN ext	>0193010_
Un	Cor	nfirm your entry by p	pressing OK.			



Volume settings

Speaker volume setting

Permanent volume setting





Use the arrow buttons to set the volume. The bar in the display indicates the current status. Confirm your entry by pressing OK.



Temporary volume setting

- The telephone is idle or you wish to change the speaker volume during an ongoing call.
- Press the open listening button.

Menu Press the menu button.

Use the arrow buttons to set the volume of the speaker. The bar in the display indicates the current status.

Loud	dspeaker oudness	÷>
		÷

ESC Press ESC in order to return to the normal display during an ongoing call. If you confirm your entry by pressing OK instead of ESC, the existing value is overwritten by the newly set one.

Setting the volume of the handset

Permanent volume setting





Use the arrow buttons to set the volume. The bar in the display indicates the current status. Confirm your entry by pressing OK.

Handse	t	lou	Idness	÷>
_			• +	

Temporary volume setting





Press ESC in order to return to the normal display during an ongoing call. If you confirm your entry by pressing OK instead of ESC, the existing value is overwritten by the newly set one.

Acknowledgement signals

With your ISDN system telephone you can select whether the acknowledgement signals are always active, never active or only active when an incorrect entry is made. The default setting has the acknowledgement signal always active.

Begin a	s follows	s:		
÷	Menu	A coustic	Ack. tones	

A check mark displayed next to the individual softkeys indicates the current status.

Press the softkey for the desired function: »no«:Acknowledgement signals are always off. »Ūk«:Acknowledgement signal always active. »Ūnlu error t.n«:Acknowledgment signal active for erroneous input.

Ackr	nowledg acti	ge si ive	gnal	
No				
			ok	\checkmark
Only	error	tn		



Setting the volume of the »Station guarding« tone

You have various options of setting your telephone to »Station guarding« (see page 42). You can set your telephone to signal incoming calls by a brief acoustic signal while »Station guarding« is active. The volume of that idle tone is adjustable.



Use the arrow buttons to set the volume. The bar in the display indicates the current status. Confirm your entry by pressing OK.



Call waiting tone

OK)

If the function call waiting (see page 67) is enabled on your telephone you can set the volume of the call waiting signal. You can also select whether a waiting call is signaled only once, or several times.





Setting the headset type

If a special support feature is stored in your telephone for the headset your are using, set your phone for that headset model.

For example, the LED in the microphone extension for »Firefly F142 N« from Plantronics can be activated by the telephone.



A check mark displayed next to the individual softkeys indicates the current status.



Press the appropriate softkey to configure the connected headset.

Headset / Hcoustic?
PLANTRONICS FIREFLY
Standard 🗸
GN Netcom 2100/2200
SILICOMP

Volume setting for appointment reminders

You can set various appointments (see page 70) for your phone for which an acoustic and optical signal is issued when the set date and time are reached. You can set the signaling volume for the appointment as follows.





Use the arrow buttons to set the volume. The bar in the display indicates the current status. Confirm your entry by pressing OK.

+	



Possible audio output features

The telephone is equipped with an audio output (Audio-Out socket). Several acoustic telephone functions can be used in parallel with the local speaker via this output. You can also connect external speakers, for example, to allow a message to be heard in the entire office.

The following features can be used with the audio output:

• Message, Open listening, Hands free calling, Calling signals



Press the appropriate softkey to switch the external output on or off.

A checkmark displayed next to the softkey indicates that this feature will be output through the Audio-Out port. Press the corresponding softkey again to deactivate the audio output. The check mark next to the softkey is deleted. Audio Out

Hands-free calling Signaling tones Speaker function /



Further settings

Call forwarding (call rerouting)

With this telephone you can be reached, even if you are not in the vicinity of your phone. This is achieved by the system automatically forwarding calls to another internal or external number.

Call rerouting can be configured separately for any of the entered numbers (MSN). To utilize the call rerouting function you must have already configured at least one phone number.

The following settings are possible for all MSN or extension numbers.

»delayed«	Delayed call forwarding:
	All calls for this number are signaled for a defined time at the exchange or
	in the PABX and are then forwarded when this period expires.
»busy«	Call forwarding on busy:
	The calls for a defined number are forwarded only when the telephone is
	busy.
	(for example: There are already two (2) connections made, or one con- nection has been made and call waiting is not permitted)
»Fixed«	Direct call rerouting:
	All calls for a number for which "fixed" call rerouting has been configured are rerouted. Your telephone will not ring, when this number is called.

You can configure simultaneous delayed call rerouting and call rerouting on busy. If you have configured a set call rerouting, cancel this function before configuring a new (other) call rerouting function.

If you operate your telephone with a pabx, please observe the call rerouting information (call forwarding) given in the operating instructions for your pabx. If your is directly connected to the network termination unit, please observe the corresponding information supplied by the service provider.

Activate call forwarding

The following example describes the configuration of a set call rerouting function for the number MSN1.

Begin a	s follows:				
→	Menu	Setting	Call rerout.	• Fixed	MSN-1
	Enter the number to which the calls are to be forwarded. In this example: »0123456789«.			be C MSN	all forwarding direct -1>0123456789_


ОК

Confirm your entry by pressing OK. Call rerouting has been registered. The three dots at the right lower corner flash alternately.



MSN-1→0123456789 ...

Viewing current call forwarding

When the telephone is idle, a "u" on the second line indicates that call forwarding has been activated. Press the "Inf" a softkey if you wish to have more information displayed for the programmed call rerouting.

Deactivating call rerouting

The following example describes how to deactivate a permanent call rerouting for MSN 1.



Special features for the Swiss version

In its initial state, the telephone is configured for use at an internal ISDN connection with an elmeg PABX. If you wish to use your telephone at the network termination unit or at a third-party pabx, you will have to change the call rerouting protocol (»Keypad« or »ETSI«) as described below.



Call waiting feature

If, during an ongoing call, a second call comes in for you, the second call is signaled when »Call waiting on« is set. A caller will hear the busy signal, when you have set your telephone to »Call waiting off«.

A waiting call is indicated by a brief acoustic signal in the speaker and also displayed. You can



set the volume of the call waiting signal and select whether a waiting call is to be signaled only one time, or several times (see page 63).

When »Station guarding« is set, the call is indicated as described on page 62. If you are using the hands-free option for an active connection, waiting calls will only be signaled optically in the display.

The following entries are possible for the call waiting feature:

With an ongoing connection or while a connection is being established,
no further calls will be signaled.
Call waiting is only possible when there are one or two active calls and no
calls waiting at your telephone.
Up to 4 simultaneous connections are possible on your telephone.
For example: two further calls can also be signaled by call waiting while two other calls are already in progress.

Begin a	as follows:			
\checkmark	Menu			
		Setting	Call wait.	

Press the appropriate softkey below the desired call waiting type. A check mark displayed next to the individual softkeys indicates the current status.

Call	waiting enable?
	OK, extended
No 🗸	
	ok

Direct call

You can program a direct call for your telephone so that when you press any key (except for ESC and the menu key) a set number will be dialed. If the direct call function is active only one connection can be established to the set number. If you wish to establish a connection to a different number you must first deactivate the direct call function.

An active direct call is protected by means of the telephone PIN (see page 57). The direct call function can then only be deactivated after entering this PIN. As long as the PIN is set to »0000 (default setting), you do not need to enter the PIN and can continue by pressing OK.

The following functions are possible with the direct call activated:

- Automatic dialing of the set number after lifting the handset of your phone, or pressing any key (except for ESC and the menu key).
- Accepting calls, provided these are not suppressed by the call filter.
- Dates that have been set previously.

Further functions (e. g.: function keys, TAPI functions or headset operation) are not possible when direct dialing is activated.



Programming a direct call number



Direct dialing is now activated. The set direct call number is shown on the second line of the display.

Deactivating a direct call

Menu	The phone is in the idle mode with the direct call-in feature enabled. Press the menu key.	07:41 Dir. call 098765
OK ►	Enter the programmed PIN (in this example: »ଉଉଉଉ«). Confirm your entry by pressing OK.	Input PIN please
	Press the softkey »ok « to deactivate direct dia- ling.	End direct call-in? No
		OK



Appointment reminders

You have the option of setting three different dates with your telephone.

- The set appointment is signaled daily.
- The set appointment is signaled once.
- The set appointment is signaled weekly at the set time (date and time).

Once the date and time of the set appointment are reached, an acoustic (with fixed tune and volume) and optical signal is issued. The volume of the signal used to indicate an appointment can be adjusted individually (see page 64). You can store a text for each appointment (42 characters max.) which will be displayed when the appointment is reached.

If you press ESC, signaling of the appointment is interrupted and then continued later as a reminder. To terminate signaling of an appointment press OK. Signaling of the appointment can also occur during a call, or when you have set the »Station guarding« feature. When the telephone is idle, a »T« on the info line indicates that an appointment has been set up.

Programming an appointment reminder

The following example describes how to program a weekly appointment 1.







Auto-answer

Your telephone can accept calls automatically, without you having to lift the handset or press the speaker (headset) key. The auto-answer feature can be switched on or off with a function key that has been programmed for this purpose.



A check mark displayed next to the individual softkeys indicates the current status.



Press the appropriate softkey to set the time after which a call is automatically answered.

Time until d	all
accepted	
5	seconds
immediately 🗸	
10	seconds

Automatic headset use

If you have a headset connected to your telephone, you can use it automatically for specific features.



Automatic headset use active:

The call is taken via the headset when you press an extension or line key with automatic accepting of calls activated.

Automatic headset use not active:

The call is taken via the open listening / hands-free calling functions when you press an extension or line key with automatic accepting of calls activated.



A check mark displayed next to the individual softkeys indicates the current status.



Press the appropriate softkey to activate or deactivate automatic headset operation.

	Use	<u>headset?</u>
No 🗸		
		Ok

Call filter

The call filter allows specific calls to be put through or rejected on the basis of the recognized phone number.

You can enter up to five filter numbers (26 digits max.) for the call filter. Filter numbers can be local area codes or partial or complete numbers. When you enter »***** you can include calls which do not transmit the number (caller ID) in the call filter. Using the call filter, calls whose numbers, or beginning numbers concur with the filter numbers entered in the system, can be rejected or accepted.

Rejected calls are saved in the caller list with a special flag. If the call was only signaled at your telephone the caller will hear the busy signal when the call is rejected by the call filter. If you are a member of a team the call will be signaled at a different telephone within the team.

Call filter operating modes

»no«	All calls signaled.
»reject«	Calls whose numbers, or beginning numbers concur with stored filter
	numbers will be rejected. All other calls are signaled.
»forward«	Calls whose numbers, or beginning numbers concur with stored filter
	numbers will be signaled. All other calls are not signaled.
»complete«	No calls are signaled.

Programming a filter number

You can configure a new filter number, or use a number already stored in the telephone (redialing, telephone directory, VIP or speed dialing memory).



The following example describes how to enter a new filter number.

Begin a	s follows:						
*	Menu						ОК
		Setting		Filter	New	Select filter number	New
OK	Enter »012 Confi	the filter nu 345«. m your entry b	imber. I by pressi	n this exa ng OK.	ample:	Filter nu	umber create

Programming call filter operating modes



A check mark displayed next to the individual softkeys indicates the current status.



Press the appropriate softkey to set the call filter to the desired mode of operation.

Filter i call	ncomi. s	ng ?
	A11	calls
No 🗸		
	f	prward
reject		

Setting the time

Begin a	s follows:				
\checkmark	Menu				
		Setting		Time	
	Enter	the time and p	oress OK t	o confirm.	Set time
OK					Time>07:41_
	Enter	the date and	press OK	to confirm.	Set time
OK					Date>29.05.03_



Extended configuration

For a full configuration the following options are available:

- PC-configuration of the telephone via the USB port
- PC-configuration of the telephone via the internal ISDN connection of an elmeg pabx (firmware version 5.40 or later, CD version 5.43 or later, WIN-Tools Telephones from Version 3.30).
- Extended configuration right at the telephone (may possibly have to be enabled by entering a specific code.)

Only limited configuration is possible when the telephone is recognized as a system telephone when connected to an elmeg PABX system. You have to enter a specific code number in order to enter the telephone's extended configuration mode.

Advanced configuration is activated automatically if the telephone is not recognized as a system telephone (for example when connected to the network termination unit, or at the internal ISDN port of a PABX system from a different manufacturer). In this case you do not have to input the activation or deactivation codes for extended configuration.

Activating the extended configuration mode

Enter the code number »**46782551##« (Vanity-format »**INSTALL1##«).

Deactivating the extended configuration mode

Enter the code number »**46782550##« (Vanity-format »**INSTALLO##«).

If the ISDN telephone is disconnected from the ISDN network, (for example by unplugging the ISDN connector of the phone or by switching off or resetting the pabx), the extended configuration mode will be automatically switched off.

Settings for an MSN extension number



 Entering or modifying the MSN extension number (»MSN ext...« softkey) Numbers for the telephone (internal extension number when connected to the internal ISDN connection of a pabx or external number when connected to the network termination unit);



Connected to a pabx



 PABX system type (»Type-ID« softkey) Type 0: The PABX system does not transmit the line access digit on incoming calls. The line access digit must be entered in the phone. Type 1: The PABX system transmits a line access digit on incoming calls. No line access digit should be entered in the phone.
 Number log oth (https://www.access

- Number length (»Humb. 1engt.h« softkey) The maximum length for internal numbers that are assigned to different internal extensions within your PABX system;
- Direct exchange line access (»Ln. access« softkey) With direct exchange line access, you do not have to dial the line access digit for conducting outgoing calls.
- Line access digit ("External line" softkey) Line access digit for the pabx;the line access digit is placed automatically in front of the number of the caller for external calls.

Dial ranges

		OK	Config f	. inhibit 'ilter
n inhibit	Enter		PIN	
	PIN			Outgoing
			Menu	
				List
	• inhibit	n inhibit Enter PIN	ок n inhibit Enter PIN	n inhibit Enter PIN Menu

- Entering restricted and unrestricted numbers (»List.« softkey) Select an entry and specify the desired area code, the telephone number or the partial number.
- Programming dial range types (»Outgoing« softkey)
 »No«: The dial filter is not active.
 »unrestr. nos. Onlg«: You phone is inhibited for all outgoing calls, except for those telephone numbers listed as unrestricted. For example, if the prefix »0211« is enabled, all telephone numbers which begin with 0211 can be called.
 »List«:The call control distinguishes between restricted and unrestricted numbers. You can release restricted numbers again by listing them as unrestricted numbers. If



Settings

an entry in the enable list is longer than an entry in the inhibit list that entry can be dialed.

Setting the User Interface



- Default setting during a call (>keypad or >dtmf<</pre> softkey)
 Select whether in the initial settings >dtmf<</pre> or >keypad is possible during an ongoing call;
- Hands-free operation (>Mut.e softkey)
 Set whether the microphone is activated with the handset in place (e.g. hands-free calling), or whether it must be switched on by pressing the softkey >speak.

Programming function keys

Begi	n as	follows							
¥]	Monu					Program	keys	
	•	Wenu							
			Program no	s.	direct		Function		
									New
							Macro	L	.ist
	D'	1. 12. 12			611	`			

- Direct dialing keys (»List.« or »New« softkey) Select a function key and then enter the desired number and the dtmf- or keypad sequence.
- Function keys (»Function« softkey) Please select a function key first. Then select the feature type. Additional settings may be required depending on the specific type of function you wish to program.

Function keys and further entries

Function	Display	Further entries
MSN as- signment	»MSN-assignment«	Telephone number index (MSN1 MSN-9) to be transmitted.
Carrier/Provider prefix	»MSN-assignment«	Telephone number index (MSN1 MSN-9) and code number of the desired provider (for example 01033).



Function	Display	Further entries
Call filter	»call filter«	
Call forwarding	»call forwarding«	Index of numbers (MSN-1MSN-9), Call forwarding mode (1 - fixed, 2 - delay- ed, 3 - when busy) and Call forwarding target.
Direct call	»Dir. call-in«	
Headset	»Headset.«	
Auto-Answer	»Auto. Accept on/off«	Telephone number index (MSN1 MSN-9) for which calls are automatically answered.
User key	»User on/off«	Telephone number index (MSN1 MSN-9) you wish to use for all further programmings.

Programming macro buttons ("macro« softkey)
 Please select a function key first. First enter a name for that macro (max. 20 characters). Then enter the separate macro commands.
 A macro's command string is limited to 26 characters. Each command or key simulation consists of two characters. You can therefore only link a maximum of 13 commands together, or, for example, join 7 commands / key stroke simulations with a further 12 digits.

Commands and keys for macro programming

A macro consists of various commands, or key strokes, that are compiled into one command sequence and stored under a defined direct dialing key. When this function key is pressed, the individual commands contained in the macro are executed one after the other.

The following commands are available for macro programming

»Е«	Initiating a call (same as lifting the handset)
»D«	Ending a call (same as replacing the handset)
»ELSE«	Alternative command, if a required condition (e.g. ${\rm ``IFLB"(or ``IFLB")}$ is not fulfilled.
»IFLA« »IFLB«	Execute this macro only when the LED for the first level is off ("IFLA") or flashes ("IFLB"). If this condition is not fulfilled the procedure is discontinued, or resumed after the command "ELSE" (where available).
»K«	Keypad sequence; all of the following characters/digits are transmitted as a keypad sequence.
»LА«	Deactivate LED
»LB«	The LED flashes
»LE«	Activate LED
»LZ«	Activate LED for two seconds



Dummy number. »n« If a number is entered prior to execution of a macro (or for example, dialed from the telephone) this number is used in place of the dummy number in the macro. »P« Pause (1 second) in the command sequence (between two characters/commands) »RF« Re-establish the phone's idle state. If there is an active connection at this phone, execution of this macro is canceled at this point. »SE« Activating the speaker (normal volume) »SA« Activating the speaker (low volume) »Т« DTMF sequence; all of the following characters / digits are transferred as DTMF dialing. »TS« Testing a connection. If there is currently no connection active, or an outgoing connection can not be set up (for example subscriber busy), execution of the ma-

If you wish to incorporate a telephone key into a macro, press the corresponding key during macro programming. Buttons used control the telephone during macro programming (e.g. save, change position of entry, change entry or cancel) can be integrated into a macro by using the commands described as follows.

The following commands are therefore available for these keys:

 »c«
 Actuation of the C- button.

 »ESC«
 Actuation of the ESC- button.

 »f«
 Actuation of the menu button.

 »*
 Actuation of the left arrow button.

cro is canceled at this point.

- »OK« Actuation of the OK button.
- »*« Actuation of the right arrow button.
- »sh« Press the key two times to reach the second level for the function keys.

Key assignments for macro programming are as follows:

Kov	Press							
Кеу	1	2	3	4	5	6	7	
1	1							
2	2	В	C.					
3	3	D	ELSE	esc				
4	4	IFLA	IFLB					
5	5	÷	К	LA	LB	LE	LZ	
6	6	menu	Ν	ok				
7	7	÷	Ρ	RE	SA	SE	sh	
8	8	Т	TS					



Key	Press	Press							
	1	2	3	4	5	6	7		
9	9								
0	0								
*	*								
#	#								

Macro programming examples:

Function	Macro command string
Key programmed for a particular number (for example: 012345 and activate LED for two se- conds)	RE,B,0,1,2,3,4,5,LZ
Setting an appointment	RE,f,s3,s5
Reading new text messages (UUS1)	RE,→,s6,s6,s2
Inhibiting the phone for all outbound calls »시«: Password for the telephone (Key for level 1, activate LED)	RE,f,s5,s1,N,ok,s5,s 4,LE,esc
Re-enabling the telephone for outbound calls »N«: Password for the telephone (key for level 2, deactivate LED)	RE,f,s5,s1,N,ok,s5,s 2,LA,esc
Adding an entry to the telephone directory	RE,f,s6,s2,s5



Service functions

Reading the telephone's firmware version

You can have the version and the model of your phone displayed so that you can determine, for example, which firmware version is available in your phone.



Country-specific settings

Certain specific parameters need to be set if the telephone is to be used in a country other than the country configured as default.

This includes setting the language, the currency and certain default specific parameters for a country's ISDN network.

Check as described as follows whether you need to set country-specific parameters for the country in which the telephone is to be used.





Press the arrow keys to view the countries,	for
which specific settings are available.	

Press the softkey for the desired country. For example: »English«.

Which Country? >
Italiano
Español
Deutsch 🗸
English
Française
Nederland
29.05.03 07:41 →

All country-specific settings take effect immediately.

The telephone data will not be deleted.

Tel. drctry Quiet VIP

Downloading a new firmware

- Do not press any keys (unless prompted to do so) or plug in or unplug any connectors while data transfer is in progress. If the connecting line is interrupted during a download, restart the download program and proceed as described previously.
- Once the new firmware has been loaded completely the telephone performs a RESET and is then available for use again.
- In some circumstances all of the data in your phone may be deleted after a firmware download. If this is the case, a notice is given prior to starting the download. Prior to downloading, save all of your telephone data (configuration, phone directory) to your PC.

Downloading new firmware via the phone's USB port

You can load the newest firmware versions into your telephone via the phone's PC interface and using the elmeg WIN-Tools CD ROM supplied with the system.

- Connect the phone to the PC.
- Load the new firmware into your PC (e.g. from the Internet).
- Start the elmeg WIN-Tools download program.
- In the field »Type of connection« select the »USB« port.
- Go to »File«, »Open« and select the directory where the new firmware is stored.
- In the field »Status« click »Start Download« to begin downloading the new firmware.

Downloading new firmware from the elmeg server

»ELMEG GmbH & Co.KG Kommunikationstechnik« provides a server PC which can be used for loading new firmware into your telephone. In this case, the firmware is downloaded via the ISDN connection. Download can take 12 minutes approximately, depending on the size of the firmware file. Please note that there is a charge for loading firmware via an external ISDN connection.



Important notice for export variants: Please ask your specialized dealer/distributor for the access number of the download server for your country!

Download server	Number
elmeg server	++49-(0)5171-901190

Initiating download of new firmware on the phone:

Begin as	s follow	/S:					
÷C	Menu	• Configuration	S ervice	Telephone PIN	OK	S oftware	ok
The telep	hone t	hen restarts from the	BIOS.				
	Pre	ess the »Update« so	ftkey.		Cx41 Info	0-bios 1.0)	3 by ps Update
BBB BBB	If y sys ext the In t If y sys ces do	vou are using your te stem, first enter the lin- cernal line access, an download server. this example: »00517 vou are using your te stem for which autom ss is active, enter wnload server withou	elephone wir e access dig d then the r 71901190« elephone wir latic exchan the numbe t the line acc	th a PABX it to obtain number for th a PABX ge line ac- er for the ess digit.	Cx4 Firm Plea 0051	10-bios 1.1 ware Updata se dial 71901190	32 by ≥ Abort

To cancel a download already in progress press the "Abort." softkey or ESC.

In some circumstances all of the data in your phone may be deleted after a firmware download. If this is the case, the following notice is given prior to starting the download:»All data will be deleted Continue?«. The firmware download is started only after you have confirmed this prompt by pressing the softkey »ok « If the data for the telephone are not deleted during the download, the download is started without first displaying the above prompt.



Telephone BIOS

This telephone is equipped with a BIOS (basic functions) in English. The BIOS functions also remain available even if the firmware of the telephone does not operate properly, or if new firmware was not loaded completely (e. g. if the PC crashed while loading the firmware).

The following functions are available in the telephone's BIOS

- All phone calls are signaled. No number (MSN) has been entered in the telephone.
- Dialing of outgoing calls is possible after lifting the handset (no call preparation, no open listening or hands-free calling).
- Loading new firmware via the phone's PC port or via the ISDN connection.

Downloading new firmware via the PC port

To load new firmware in the BIOS of your telephone via the PC port, proceed as described on page 81 of these operating instructions.

Downloading new firmware via the ISDN port



You are shown the BIOS menu for the telephone. If you wish to load new firmware via the ISDN connection, press the »Update« softkey.

Now proceed as described on page 82 of these operating instructions.

Attention: The settings for the »Set.« softkey are used for service and diagnosis at elmeg. Any settings you may make or modify in this menu will affect the overall functionality of your telephone. In some cases the telephone may not be able to be used if these settings are changed.



Reset - Resetting to default state

You can reset the telephone to its initial state using the procedure described as follows. All of the data that you have entered previously will be deleted.

If you have connected the elmeg T400 key extension module to your phone all of the data for the module will also be deleted when this procedure is executed.

Please note: Settings for the answering machine and any texts that have been stored will not be deleted. Please refer also to the instruction manual supplied with your answering machine.

Begin a	s follows	5:					
×	Menu				OK		
		Configuration	Service	Telephone PIN		Data	ok
	Pres	ss »ok« to reset the	e telephone t	to its initial data dele-	Sure	to delet	e all?
	ted	press »No«.	SS »No«.				ok
	When	en you press the »ok s reset to the default	« softkey, th state. All dat	ne telepho- :a are dele-	29.05	.03 07:41	
	ted.				Tel. d	rctry	Quiet
					VIP		



Telephone and PC

CTI / TAPI using the telephone's USB port

The abbreviations CTI and TAPI denote the standard interface for Windows telephony applications from Microsoft. Telephones and computers can work hand in hand via this interface. CTI: Computer Telephony Integration

TAPI: Telephony Application Programming Interface

This allows you to dial directly from TAPI-compatible Windows programs, and the calls can be used by the software. Consequently, setting up a connection via TAPI is considerably faster than with normal calling. TAPI, with its standard Microsoft interface, has the advantage that it is already supported by a large number of programs and this number is growing all the time.

The TAPI functions of the telephone are available immediately after being connected to the PC and does not require any additional activation procedures to be performed at the telephone.

CAPI using the telephone's USB port

As a result, you do not need any additional ISDN card for your PC. The phone is equipped with an integrated USB port for connection to the PC. Based on the programs and drivers you have installed, you can use the telephone, for example to surf the Internet conduct data exchange, send/receive fax messages, or implement an answering machine via the PC.

- Only one B channel is available for all applications, to ensure that the telephone can be reached at all times. The applications being used can use this B channel one after the other.
- Do not use the same MSN in these PC applications as are used in the telephone.
- If a CAPI application is active on your PC and using the available B channel this is indicated in the display of the telephone by »DHLINE«. Only one B channel is then available for telephony while this application is in use.

Fax and data applications (not included in scope of supply)

You can send or receive faxes from / to different applications by means of a fax program. With a file transfer program you can transfer files from one PC to another or receive files. To use this application with your telephone, the following drivers must be installed: USB and CAPI drivers of the telephone.

Internet access

With this telephone you can surf the Internet. Use your provider's (e.g. T-Online, AOL) software packages or the Windows Dial-up Networking. To surf the Internet by telephone, the



following drivers must be installed: USB and CAPI drivers of the telephone NDISWAN driver (only necessary when using the Windows Dial-up Networking)

Audio applications using the telephone's audio sockets

The telephone is equipped with an input (2) and an output (3) for audio signals. Both these ports have a 3.5 mm stereo socket. When using the optional answering machine module, you can connect the telephone via these ports to the PC sound card in order to upload announcements into the phone or save recorded messages on the PC.

You can also use specific telephone features with the Audio-Out output (see page 64).

Contents of the WIN-Tools CD-ROM

In these operating instructions we would like to give you a brief summary of the software included in the scope of supply for the system. The software programs themselves are not described in these instructions. Should you have any questions or problems while you are using the programs, you can also refer to the online help function of the various applications for assistance. All of the programs used are provided with comprehensive online help.

Configuring the telephone (elmeg WIN-Tools)

• Professional Configurator:

Setting and configuration of the phone's individual features are done in the configuration process. You can set up MSN extension numbers or program VIP keys and function keys. You can also configure the phone's displays, set the volume of various signals, select dialing options (when the phone is connected to a PABX) or set the parameters for dial ranges and charge logging.

The Professional Configurator is also used for programming an optional answering machine or the optional elmeg T400 keyboard extension.

• Telephone directory manager:

Use the phone directory manage to to create new entries for the phone directory (see page 29) or assign a special dial tone (VIP dial tone) to individual numbers. With the import / export function you can also import data from other programs or export data for further processing.

• Download manager

Use this program for loading new firmware for the telephone with your PC. A new firmware is loaded via the phone's PC port.

Sound manager

You can use the sound manager to create your own call signaling melodies at the PC and then load these melodies into your telephone.

On completion of data exchange, the telephone undergoes an internal reorganization (of phone directory data for example). This process takes place automatically and may require a few minutes. During this time, certain telephone functions will not be available for use (e. g. phone directory).



Application programs

• Adobe Acrobat Reader Program for viewing and printing PDF documents.

Drivers

- **CAPI driver** (Common ISDN Application Programming Interface) Links the telephone to programs that provide data communication functions. For example: CAPI software (not included in the package)
- NDISWAN driver (NDIS Network Device Interface Specification / WAN Wide Area Networking) Integration of the telephone into the PC as a special ISDN network card. For example: Connection to the Internet via Windows dial-up networking
- **TAPI driver** (Telephony Application Programmer's Interface) Interfacing to programs that provide computer-aided telephony. For example: Windows dialing assistant, CTI software (not included in the package)
- **USB driver** (Universal Serial Bus) Recognition and control of the phone after connecting to the USB port of the PC. For example: Example of elmeg WIN-Tools programs

Important note for installation of the CAPI drivers:

Before installing the new drivers, be sure to remove any existing CAPI drivers in your system (such as the drivers for an installed ISDN card), as Windows only supports one installed CAPI.

Refer to the operating instructions for the device concerned, or for the operating system, for details on removing drivers.

In some special circumstances it may be necessary to also physically remove the ISDN card form your PC in addition to (virtually) removing the drivers.

Installing the programs from CD-ROM

At present, only Microsoft Windows operating systems are supported for connection of a PC to the telephone via the USB port.

PC requirements :

- IBM or 100% compatible PC
- Pentium or comparable processor, min. 133 MHz clock rate
- min. 32 MB RAM
- CD ROM drive
- Free USB-port



- Windows 98SE / ME / 2000 / XP operating system
- Min. 80 MB free hard disk space for installation

Installation sequence

- Start your PC.
- Insert the CD ROM supplied with the system in the CD ROM drive of your PC.
- Wait a moment until the program starts automatically. If the autostart option is not activated in your PC, you can start the file »setup. exe« directly from the main directory of the CD using Windows-Explorer (double click on the file), or using the option »Run« in the Windows start menu.
- The welcome screen for the CD is displayed after you start the file.
- It is important that you install the programs and drivers in the order given: CAPI driver
 WIN-Tools programs
 TAPI driver
 CTI software (not included in the package)
 CAPI software (not included in the package)
 NDISWAN driver
- Connect the telephone to the PC's USB port as described on page 6. The telephone is automatically detected by the PC.

Installation of a device driver is started automatically the first time you connect the telephone to the PC. The device driver is located in the root directory of the CD-ROM. Follow the instructions displayed on the monitor.

• You can then use your phone together with the installed PC programs.



Appendix

Declaration of conformity and CE mark

This device meets the requirements of the following EC directive R&TTE 1999/5/EG:

1}»Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity«

You can also request this EC declaration of conformity at the following Internet URL:

http://www.elmeg.com/products/conformity/

Default telephone settings

- The serial number is entered as the telephone name.
- Display language: English
- Country-specific settings: English
- No MSN extension numbers are stored. Melody volume: Level 3, melody: Number 1;No call forwarding or deflection numbers, no MSN extension name, MSN cost account deactivated, PIN for the MSN extension:0000, MSN enabled for dialing
- No entries are stored in the caller / memo list and the redial list.
- No entries are stored in telephone directory or the VIP memory.
- No function keys programmed (direct dial-in, functions, macros).
- 10 permanently stored melodies. 10 storage places for additional melodies.
- No UUS1 text messages are stored. Reception of internal (pabx) and external text messages is possible. No automatic relaying of text messages with a call.
- No SMS text messages are stored. Number for the SMS center: 0193010 (SMS server of Deutsche Telekom AG)
- Station guarding for the telephone is switched off.
- Display contrast: Level 4
- Speaker volume: Level 4
- Handset volume: Level 2
- Acknowledgement signals and error tones are active.
- Appointment reminder volume: Level 3
- Station guarding tone volume: Level 3
- Call waiting tone volume: Level 3, call waiting tone repeat feature is active



Appendix

- No output of audio signals over the Audio-Out port.
- Numbers are identified with incoming and outgoing connections (CLIP / COLP).
- Telephone number and costs are displayed. The call duration is shown when no cost data are available.
- Display of information after completion of a call (e.g. duration)
- Cost data: Tariff 0.062 and currency EUR
- Call waiting is switched off.
- Appointments are switched off. No appointment data stored. Date:11.11.02 / Time: 11:11
- Auto-Answer time: immediately
- Headset use is not configured. Headset type: Standard
- Dialing status during an ongoing call: DTMF-dialing
- Microphone switched off after handsfree dialing.
- Call filter switched off, no filter number stored.
- Direct call switched off, no direct dial-in number stored.
- PIN for the telephone: 0000
- Dial ranges switched off, no restricted or unrestricted numbers stored.
- Menu access is not PIN-protected.
- PABX type: 0
- Line access digit for the pabx: not stored.
- Internal number length for the pabx: 4
- Parking code: 55



Telephone menus

»Configuration« menu



Figure 7



»Acoustic« menu



Figure 8



»Setting« menu



Figure 9



»Program nos.« menu





Technical specifications

Dimensions L x W x B:	approx. 255 x 180 x 100 mm
Weight:	approx. 0.8 Kg
Temperature range	
Operating:	+5° C +40° C
Storage:	-25° C +70° C

ISDN connection (CS410)

Length of ISDN connection cord:approx. 6 metersISDN connection:DSS1 protocol, point-to-multipoint accessChannel structure:B + B + DISDN power consumption:=< 1 Watt</td>

Up0 connection (CS410-U only)

Length of ISDN connection cord:	approx. 6 meters
Up0 connection:	DSS1 protocol, point-to-point access
Channel structure:	B + B + D
Output:	ISDN connection, DSS1 protocol, point-to-multipoint
	access
ISDN power consumption:	=< 1 Watt

USB port

Length of USB connection cord:	approx. 3 meters
Terminal device:	Self powered terminal device
Speed class:	Full Speed
USB standard:	1.1

Audio connection

Length of Audio connection cord: approx. 2,5 meters, 3.5 mm stereo plug





Index

Α

Accepting a call 1	6
Acknowledgement signals 1	3
setting 6	32
Activating/deactivating the headset 5	51
Adding telephone book entries 3	30
Additional keypad	2
Adobe Acrobat Reader	37
Anonymus call 1	7
Answering a call, automatic	'1
Answering machine (AM)	1
PIN for remote polling 5	57
Answering machine module	1
Answering machine-LED 1	2
Assigning the telephone name 5	59
Assignment of the headset socket	6
Audio applications	36
Audio in / Audio out	36
Auto-answer 51,7	71
Automatic completion of call 2	23
on no answer	23
Automatic redialing 1	9
deactivate 1	9
suspend 1	9
Automatic use of the headset.	1

В

Boss/Sec.function						50
Broker's call						28
Buttons						. 9

С

Call						
parking						24
transfer/switching						27
Call Accept						
waiting call						27
Call Deflection						16
Call filter				Ę	50	,72
programming						73

programming filter numbers 72	2
Call LED	2
Call rerouting 50,66	3
Call signaling12	2
Call transfer	7
Call waiting	7
Call waiting settings 67	7
Call waiting tone repetition 60	3
Call-back, automatic	3
Caller and memo list	3
view	1
Caller/memo list	
dialing a number 16	3
Cancelling calling line number	
identification	
for the next call 1	7
CAPI driver	7
CAPI using the USB port 8	5
CD-ROM contents 86	3
Adobe Acrobat Reader 87	7
drivers 87	7
CEmark 89	9
Changing the label panel	7
Charge information 46	3
programming 47	7
Cleaning the telephone	3
CLIP/CLIR/COLP/COLR48	3
Completion of call	
to busy subscriber	3
Completion of call on no reply (CCNR) . 23	3
Completion of call to busy	
subscriber (CCBS) 24	1
Conference	3
Configuration, extended 74	1
Configuring the audio output 68	5
Connecting the audio sockets	7
Connecting the handset connecting cord	1
Connecting the ISDN cord	1
Connecting the PC connection cord (USB)	3
Connecting the telephone	4
headset	5
PC (USB / Audio)	3
· /	



Connecting the telephone to the S0 $$ 4
Connecting the telephone to the Up0 4
Controlling costs
charge limitation 45
inhibiting an extension number for
outgoing calls 45
Country-specific settings 80
CTI using the USB port

D

Daily appointment			70
Data, technical.			95
Day/night modes			50
Declaration of conformity.			89
Default telephone settings			89
Deleting telephone book entries			31
	5	50	.68
PIN for deactivating.			, 57
Direct dialing with function keys			15
Display			10
setting the contrast			71
setting the language			. 8
Display during a call			46
Displays during a call			46
programming			47
viewing			47
Don't disturb feature			
announcement tone volume			63
Download manager			86
Downloading new firmware			81
via the ISDN port			81
via the USB port			81
Drivers on the CD-ROM			87
DTMF dialing.			26

Ε

Editing telephone book entries	30
Editing VIP entries	32
Electrostatic charges	. 3
Enquiry Call	27
Entering a memo	36
Entering a name for an extension	
number	56

Entering letters	11
Extended configuration	74
Extended redialing	18
Extension key	50
Extension key for an answering	
machine	51
Extension number (MSN)	
assigning a specific PIN	57
assigning names	56
defining for the next call	49
enable/inhibit for outgoing calls	45
setting the melody (tone)	56
Extensions	. 1
additional keypad	. 2
answering machine module	. 1
Up0/S0-module	. 1

F

Firmware download									
va the ISDN port									81
via the PC port.									81
Firmware download									81
Forwarding a call									16
Function keys							1	2	,49
auto-answer.									51
boss/sec.key.									50
call filter									50
call rerouting									50
day/night modes									50
direct call									50
direct dial / dtmf-	-/	ke	yr	ba	d				
sequences									49
extension key .									50
extension key AN	1								51
headset on/off.									51
intercom									50
intercom on/off.									50
line button									49
log-on/off									50
macro functions									51
message									50
message on/off									50
MSN assignment									49
programming .									53
- •									



team key						50
trunk bundle key						49
user on/off						51
voice mail key .						51

Н

Hands Free Calling						2	20
Headset					5	5,2	21
automatic use						7	71
connecting							5
settings							6
socket assignments	s.						6

I

Infotext for telephone book entries	29
Input mode for entering letters	12
Inputting of macros	78
Installation sequence of the CD-ROM	88
Intercom	,50
Intercom inhibiting filter	50

Κ

Keypad																	26
--------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

L

LED	for call	sar	nd	ar	าร	We	əri	ng	gn	na	lch	hir	ne		12
LED	s (LED)														12
Line	button														49
Loa	ding ne	w fir	m	w	ar	e									81
1	from the	etel	ep	bh	or	ne	B	0	S						83
`	via the IS	SDI	۱p	00	rt										81
`	viathel	JSE	Зp	or	t										81
Log	-off (tea	m)													50
Log	-on (tea	m)													50

Μ

Macro functions		51
Makro functions		
entering commands and keys		78
Malicious call identification (MCID)		25



after a call			25
during an ongoing call			25
MCID (Malicious call identification			
(MCID)			25
Memolist			33
Message	2	21	,50
Message inhibit			50
Microphone on/off			20
Mounting the feet			. 3
MSN (extension number			
setting the melody (tone)			56
MSN (extension number)			
assigning a specific PIN.			57
assigning names			56
charge limitation			45
defining for the next call			49
enable/inhibit for outgoing calls.			45
enter or view			55
setting the volume			56
MSN (telephone number).			55
MSN assignment		-	
for telephone book entries			29
MSN extension number	·	·	20
enter or view			55
setting the volume	·	•	56
	·	·	17
Mutipa	•	·	20
			20

Ν

NDISWAN driver		87
Negative acknowledgement signal		13
Network termination unit		28
Number (MSN)		
charge limitation		45
Number for the SMS center		59

0

One-time appointment.					70
Open listening					20

Ρ

PABX	
function keys	49
system menu	54
Parking a call	24
PC requirements	87
Pictographs	. 8
PIN for an extension number	57
PIN protection for telephone menus	58
Placing the telephone	. 3
Pocket money account	45
Positive acknowledgement	13
Professional Configurator	86
Programming a charge limitation	45
Programming a direct call number	69
Programming a filter number	72
Programming appointment reminders .	70
Programming calling line	
identification transmission	48
Programming number display	48
Programming the parking code	59
Programming the telephone PIN	57
Programming VIP entries	32
Programs of the CD-ROM	86
Adobe Acrobat Reader	87
drivers	87
Protecting menu access by PIN	58
Protection against electrostatic charges	. 3

R

Reading the te	le	pł	10	ne	's	fi	rm	าพ	a	е				
version		•												80
Redialing														17
automatic														19
extended														18
Rejecting a call														16
Reset														84
Resetting the telephone to default state														
data recove	er	y												84

S

Safety notes.							. 2
Sec. function.							50

Setting appointment reminders			
volume			64
Setting the call waiting tone			
call waiting tone volume			63
Setting the currency			44
Setting the display contrast			71
Setting the handset volume			61
Setting the language			. 8
Setting the melody (tone)			56
Setting the parking code			59
Setting the ringing tone melody			
at an elmeg PABX			12
Setting the speaker volume			61
Setting the tariff factor			44
Setting the telephone name			59
Setting the tone (melody)			56
Setting the volume			61
appointment reminder			64
handset			61
melody			56
speaker			61
Setting up cost monitoring			43
Setting volume			
station guarding			63
Settings.country-specific			80
SMS			
viewing			39
SMS center	Ċ		59
SMS text message	·	•	00
error during transmission			42
error while receiving			42
SMS text messages	Ċ		37
Sound manager	Ę	56	.86
Special dial tone for the telephone			,00
directory	2	29	,31
Specific PIN for an extension number			57
Specifying the outgoing number			17
for telephone book entries			29
Starting a call			14
dialing from telephone directory.			15
dialing from the caller/memo list.			16
dialing from the VIP memory			15
direct dialing with function kevs.			15
with a set number (MSN)			17
· · · /			



without calling line identification	
(CLIR)	17
Station guarding	42
Suppressing calling line identification .	48
for the next call	17
Switching a call	27
Switching call modes	50
System menu of pabx systems	54

Т

TAPI driver			87
TAPI using the USB port			85
Team keys			50
Team log-on/off			50
Technical specifications			95
Telephone BIOS			83
Telephone directory			29
adding an entry			30
deleting an entry			31
dialing a number			15
editing an entry			30
info text for an entry			29
outgoing number for an entry $.$			29
special dial tone (VIP tone)			31
Telephone directory manager			86
Telephone menus			91
Telephone number (MSN)			55
Telephone PIN			57
Text messages			37
automatic sending (only UUS1).			41
configuring the reception mode			
(UUS1 only)	·	·	41
creating and sending	•	·	38
save (UUS1 only)	·	·	40
viewing	•	·	39
Trunk bundle button			49

U

Unpacking and placing the telephone .	. 3
Unpacking the telephone	. 3
Up0/S0-module	. 1
USB driver	87
User key on/off	51
UUS1 messages	
save	40
viewing	39
UUS1 text messages	37
automatic sending	41
configuring the reception mode	41
creating and sending	38

V

Viewing and deleting costs	43
last call	43
specific extension numbers (MSN) .	44
total costs	44
VIP dial tone for telephone book	
entries	31
VIP memory	
dialing a number	15
editing an entry	32
making an entry	32
VIP Memory	32

W

Weekly appointment .					70
WIN-Tools CD-ROM .					86





Index
Brief description of functions

Enquiry Call							
Â	1	Menu)			
		[Dial number				
Broker's call							
↑)	Menu)			
		[Dial number			Connect	ion1
Ocufores						Connec	,010/14
Conterer	ice						
^)	Menu)			
		[Dial number		Confer	ence	
Call transfer with prior notice							
↑		2	Menu)		
	Dial number			Dial number		transfe	r
Park							
↑)				OK)	×	
		park B	Enter parking	code			
Unparkin	g						
*					ОК	<u>^</u>)	
		unpark	Enter p	parking code			
Call forwarding							
*	«D»				OK		
		transfe	i n Di	al number	Un		
Extended redialing							
Ť			or		OK	Ŷ)
Search number Search number							







Warranty Declaration

Insofar as claims filed for elimination of deficiencies (applicable laws) are being processed, these shall be handled via the contractual partners. In addition, elmeg provides the following manufacturer's warranty:

1. For this device, the company ELMEG GmbH & Co.KG Kommunikationstechnik grants a warranty period of 24 months, figured from the date of purchase from the dealer; this must be verified by the original receipt, or other similar documents, in accordance with pertinent, existing guidelines.

2. Warranty claims shall be filed via a specialized elmeg dealer. A list of the elmeg specialized dealers is available for users on the Internet at www.elmeg.de, or via the elmeg information hotline.

3. The voluntary elmeg warranty covers the rectification of any damage or deficiency that occurs during the warranty period and which is demonstrably due to material or production faults.

4. Not included in this voluntary warranty are damage and deficiencies resulting from incorrect connection, from improper handling, from non-observance of the programming instructions or instructions for use, or from force majeure. The voluntary elmeg warranty does not cover installation and programming work performed by the specialized dealer. In particular, no claim can be made for installation or programming work to be performed free of charge by the specialized dealer. The voluntary elmeg warranty does not cover deficiencies which have a negligible effect on the value or usability of the device. Further costs, such as for installation, transport and travel expenses are expressly excluded from the elmeg warranty.

5. It is at the discretion of elmeg to replace the device with an identical one instead of performing repairs. Further claims for damage are not permissible. Any data stored in the device will be lost after repair work or replacement of the device.

6. The voluntary elmeg warranty is nullified if changes are made to the product, or when the product is operated in a country for which it was not developed nor produced.

7. Fulfillment of the voluntary elmeg warranty presupposes that the device has been packed complete and protected against breaking and impacts (if possible in the original packaging) and shipped with the warranty certificate from the specialized dealer.

8. If testing reveals that there are no grounds for warranty claims, or that the product does not exhibit any deficiencies, the costs for repair work and testing shall be borne by the user. The specialized dealer processing the claim arising from the voluntary elmeg warranty is authorized to charge these costs to the user.

9. Services arising from the voluntary elmeg warranty effect neither an extension of the warranty period, nor do they mark the beginning of a new term for the voluntary warranty.

10. Warranty claims according to applicable law filed by the end customer shall neither be excluded, nor restricted by this independent manufacturer's declaration.

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Operating instructions elmeg CS410 / CS410-U