



**elmeg**



**elmeg CS290**

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## **Indice Generale**

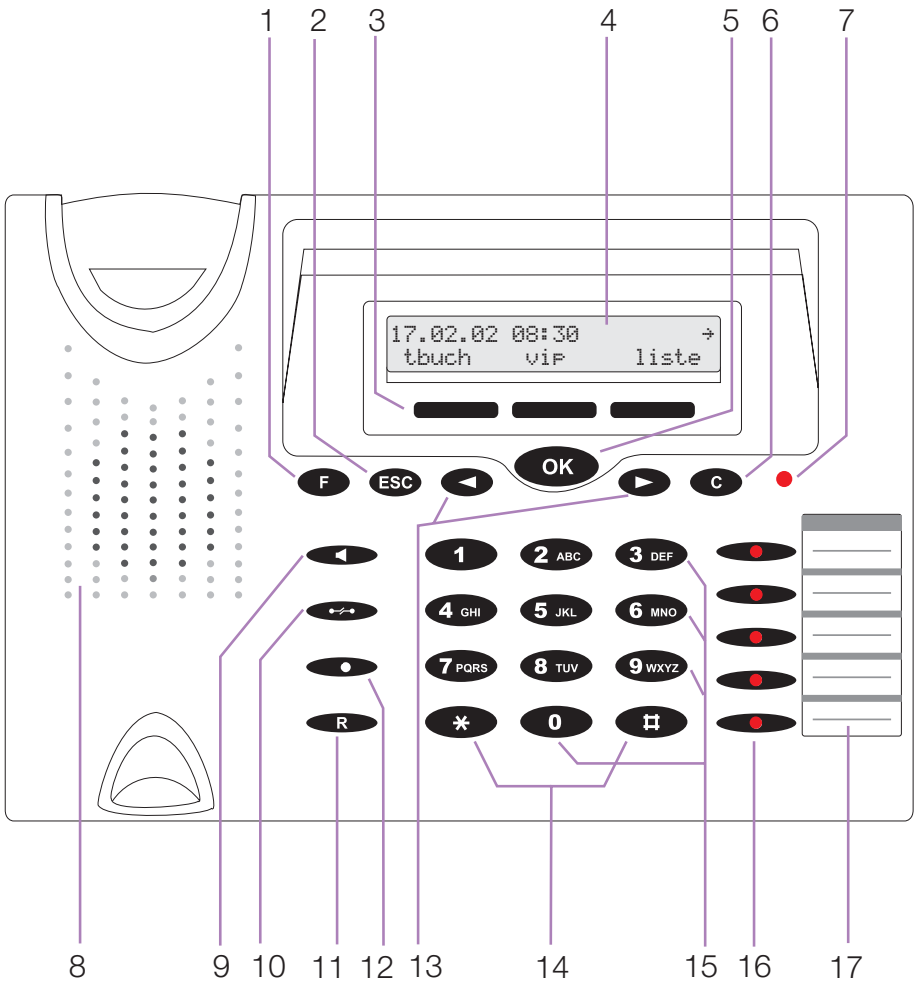
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Deutsch

English

Française

Italiano



## User interface of the telephone

- 1      Function 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.
- 2      Escape button: Pressing the Esc button during programming returns the telephone to its idle status.
- 3      3 Softkeys  
The functions of the softkeys are displayed in capital or small letters (depending on your settings).
- 4      Display: After you connect the system to the internal ISDN port of the pabx, the date and time are shown on the top line of the display. The date and time are imported automatically from the pabx. The text displayed for a function on line 2 is always located above 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 »\*«.
- 5      OK button: Pressing this button stores a setting in the telephone. You then hear the acknowledgement signal.
- 6      C-button: 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.
- 7      Incoming call LED: Incoming calls are signaled by a rapidly flashing LED.
- 8      Speaker
- 9      Open listening
- 10     Ending a call
- 11     Enquiry button
- 12     Redial button
- 13     Arrow keys: 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.
- 14     asterisk key, rhombus key
- 15     Dial keys / VIP keys
- 16     Five programmable function keys with inset LED:  
Each button has an LED assigned to it. These LEDs can be used to indicate certain functions.  
The LEDs of the two keys at the bottom have two different colors.
- 17     Label panel for programmable function keys

# Description und Installation

You can connect the ISDN system telephone at the internal ISDN connection of an elmeg PABX system. The system telephone is linked to the ISDN network via an ISDN jack (Western or RJ45). The elmeg ISDN telephone provides system features when connected to certain elmeg PABX systems (firmware version 5.40 or later, CD version 5.43 or later).

The internal ISDN connection (S0 bus) on these PABX systems automatically interfaces with the system telephone. Please refer to the operating instructions of your PABX to determine whether these typical system performance features are provided with the various system telephones.

## Setting up/ Configuring the system telephone

On the system telephone itself you can only carry out a limited configuration of the supported performance features. You can only perform a complete configuration of the system telephone via the internal ISDN port of an elmeg pabx system (starting from firmware version 5.40, CD version 5.43 and higher).

## Safety notes

- Storage temperature:  $-25^{\circ}\text{C}$  ...  $+70^{\circ}\text{C}$ .
- Operating temperature:  $+5^{\circ}\text{C}$  ...  $+40^{\circ}\text{C}$ .  
Only connect the telephone when the permissible ambient operating temperature has been reached.

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

- Only attach the connecting cords at the jacks/connections provided.
- Avoid the following:
  - Direct sunlight
  - Sources of heat (e.g. radiators)
  - Electronic devices (e.g. stereo components, office equipment or microwave devices)
  - Ingress of moisture or liquids
- When required, clean the telephone with a slightly moistened cloth.
- Never open the telephone yourself.
- You should not make calls or connect or disconnect any lines during thunderstorms.

## Contents of package

System telephone, handset with handset connecting cord, ISDN connection cord (approx. 3m), 2 feet, 1 set of operating instructions (German, English, French and Italian), label panel for programmable function keys.

## Cleaning and maintenance

The ISDN system telephone has been manufactured for normal, everyday use. When required, clean the device 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 result in faults or malfunctions in the electronics. It is essential that no liquids penetrate into the inside of the telephone, as this could destroy the phone.

## Placing the telephone

Before installing the telephone you must mount the rear feet for the unit at the positions (6) shown in figure 3. Depending on the height of these two feet you can adjust the display angle of your phone to your personal angle of vision. Ensure that the two feet have the same height.

To adjust the height, pull the feet off of the bottom of the telephone, rotate them around 60° and place them back in the enclosure. By turning the feet by around 60° (around the longitudinal axis) each time you can set three different heights for the phone.

Please note that the plastic feet of your 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.

## Installation of the telephone

### Connecting the handset connecting cord

Connect the connecting cable (1) as shown in figure 1. After this, place and secure the cord in the cord groove (4) and lock it below the two cord retainers (5).

### Connecting the ISDN cord

Connect the ISDN cord (2) as shown in figure 1 (So jack). Ensure that the longer ISDN connector is plugged into the ISDN jack and the shorter ISDN connector into the ISDN socket on the telephone. After this, place and secure the ISDN cord in the cord groove (4) and lock it below the two cord retainers (5).

**Connecting a headsets (not included in the delivery)**

**Recommended: Headsets supplied by Plantronics with U10PS connection cord**

Connect the headset as shown in figure 1. After this, place and secure the headset cord (3) in the cord groove (4) and lock it below the two cord retainers (5). You can use the handset or the headset for making calls.

**Headset »Firefly F142 N« supplied by Plantronics:**

With this headset, the LED located in the microphone arm is controlled by the phone's headset button. In the menu »Volume, etc.« (see figure 3 on page 11) press the soft-key »headset.« and confirm by pressing »ok.« to configure the phone for this headset.

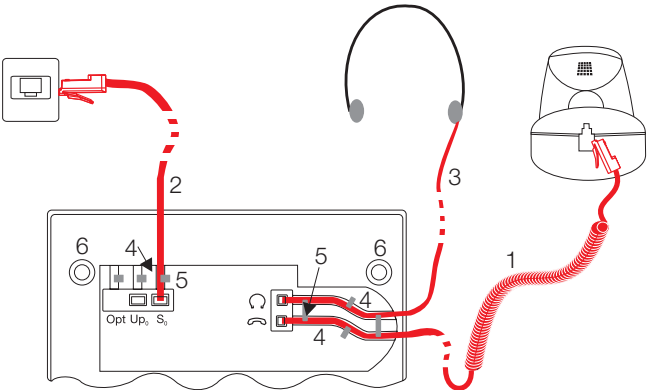
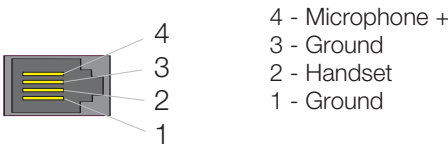


Fig. 1

**Pin assignments of the headset**



**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 panel via your PC yourself. The CD ROM supplied with the system contains an Adobe Acrobat file with templates.

## 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.



Hang up the 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

You can select the language of your display.

Begin as follows:



confi9 display lan9ua9e



Press the arrow buttons to view the available languages.












```
Which language? →  
deutsch english polski
```



Press the softkey below the desired language. The display switches to the changed language immediately.

## Entering letters and numbers

You can advance through the characters (letters or numbers) by pressing the appropriate button repeatedly. The following buttons are configured for the entry of figures and numbers:





Key	1. press	2. press	3. press	4. press	5. press	6. press	7. press
	1						
	A	B	C	2	Ä	Å	Æ
	D	E	F	3			
	G	H	I	4			
	J	K	L	5			
	M	N	O	6	Ö	Ø	
	P	Q	R	S	7	ß	\$
	T	U	V	8	Ü		
	W	X	Y	Z	9	¥	
	*						
	#						

Every letter that you enter is shown as capitals.

Example: »TONY MILLER«.

Several special characters are assigned to the button »  «.

Z.B.: »!«, »&«, »?«, »+«, »-«, »=«, »(«, »)«, »[«, »]«, »“«, »”«, ...

When you press the key »  « the first time a space is inserted. When you press this key a second time several special characters are shown in the display. Press the appropriate key to select the corresponding special characters »  « ... »  «. If you wish to view further special characters, press the key »  «.

## Function keys

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. The LEDs for the two bottom keys (4 and 5) have two colors, with each color being assigned to a particular level for the function key.

Press the key two times to reach the second level for the function keys.

## You can program the following functions:

button type	level	restrictions
Auto-answer with headset operation on / off	1 / 2	level 2, buttons 4 and 5 only
Message enable/inhibit (message inhibit filter)	1 / 2	level 2, buttons 4 and 5 only
Headset on / off	1	
extension key	1	
MSN-Assignment (Carrier / provider preselection)	1 / 2	
Call rerouting (AWS)	1 / 2	
Team function log-on/log-off	1 / 2	level 2, buttons 4 and 5 only
VoiceMail button	1	
Direct dialing (telephone number, dtmf sequence or keypad sequence)	1 / 2	

## Additional information in the display

When the telephone is in the idle state, additional information about functions that have been configured are shown on the top line of the display.

```
17.02.02 08:30  U C →
tbook  vip
```

»U« The dial filter for the telephone has been configured via the PC configuration program. Phone numbers or partial numbers are now enabled or inhibited for calling.

»C« Call forwarding configured.



Press the right arrow button and then the softkey »Info« if you wish to get more information about the configured functions.

```
17.02.02 08:30  U C +
mail rate  info
```

# Configuration

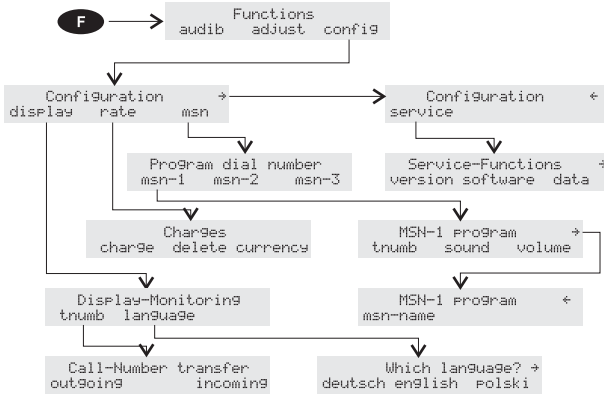


Fig. 2

## Telephone numbers (MSN)

You can enter up to 3 phone numbers (MSNs) via PC configuration that can be used by the telephone at the internal ISDN connection for the pbx system. Please observe the instructions in the pbx manual.

When you enter an MSN or extension number in your telephone you are essentially defining that your 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.

How to configure an MSN (extension number) is described as follows example with »msn-1«.

### Entering or editing an MSN extension number

Entering or editing a phone number can only be performed via the PC configuration program for the telephone.

### Viewing an MSN extension number

In the menu »MSN-1 PROGRAM« (see figure 2 on page 7) press the softkey »telnr«.



## Setting the call signaling melody and 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, 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.

### Setting the melody



In the menu »MSN-1 Program« (see figure 2 on page 7) press the softkey »sound« and then the softkey »internal« or »external«.

-   Use the arrow buttons to set the desired tone (melody).  
Confirm your entry by pressing OK.

```
Select melody ↔
-■----- 2
```

### Setting the melody volume

In the menu »MSN-1 Program« (see figure 2 on page 7) press the softkey »volume« and then the softkey »internal« or »external«.


-   Use the arrow buttons to set the desired volume.  
Confirm your entry by pressing OK.

```
Select call signal ↔
MSN-1 - ■■■--- +
```

### Assigning a name to the MSN

You can assign your own names (max. 5 characters) to the MSN extension numbers. The assignments for the keypad for entering letters and digits are described on page 5.

In the menu »MSN-1 Program« (see figure 2 on page 7) press the softkey »msn-name«.

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

```
Own MSN designation
MSN-1>STORE
```

Once a name has been entered for a number, the softkey designations »msn-1«, »msn-2« or »msn-3« are replaced by the corresponding names in the menu. In this example here the name »STORE« is displayed instead of »msn-1«.

## Display the call number

### Display the number for the called party (CLIP/CLIR)

To have your own number displayed at the party you are calling press the softkey »ok«. If you do not wish to have your number displayed at the party you are calling press the softkey »no«.

In the menu »call-number transfer« (see figure 2 on page 7) press the softkey »outgoing«.

Press the softkey below »no« or »ok«.

Called subscriber numb?	
no	ok

### Display of number at caller (COLP/COLR)

To have your phone number displayed at the party you are calling press the softkey »ok«. If you do not wish to have your number displayed at the party you are calling press the softkey »no«.

In the menu »call-number transfer« (see figure 2 on page 7) press the softkey »incoming«.

Press the softkey below »no« or »ok«.

Called subscriber number?	
no	ok

Not all of the performance features described here are implemented in the ISDN standard connection or in the pabx. Contact your service provider to determine how or if you must apply separately for the individual performance features for your ISDN connection.

### Display during call

Call display for phone number (»0123456«) and charges (»0,36«).

0123456	0.36
silent	keypad

Correct charge display is shown only if you have applied at your network service provider for transmission of charges during calls.  
Please note: When using an LCR procedure the charges are not registered properly, as they are not transmitted by all providers.

Call display for phone number (»0123456«) and duration (»02.19«) of entire call.

0123456	02.19
silent	keypad

## Call charges

You must apply for this feature at your network service provider. Transmission of the current charges can, depending on the service you applied for, be displayed either during or after the call.

Please note that only charge billing by the network service provider is binding.

### Setting the charge factor (charge rate factor)

The setting of the charge factor can have a maximum of 4 digits. To enter a comma, use the **\*** key.

In the menu »charges« (see figure 2 on page 7) press the softkey »charge«.



Enter the new charge factor.  
In this example: »0,25«.

```
Amount for units
>0.25_
```



Confirm your entry by pressing OK.

### Resetting the charge display

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 phone receives charge information that is not stored, »wrong charge type« then appears in the display. When the charges that are stored in the phone are deleted, recognition and saving are reactivated automatically.

In the menu »charges« (see figure 2 on page 7) press the softkey »delete«.



Press the softkey »no«, if you do not want to reset the type of charge information. If you want to delete the charge information, press the softkey »ok«.

```
Reset charge type?
no                ok
```

### Setting the currency

The entry for the name of a currency can have a maximum of 6 digits. For a description on how to enter characters, please refer to page 5.

In the menu »charges« (see figure 2 on page 7) press the softkey »currency«.



Enter the new currency.  
In this example: »CUR«.

```
Currency name
>CUR_
```



Confirm your entry by pressing OK.

# Volume settings

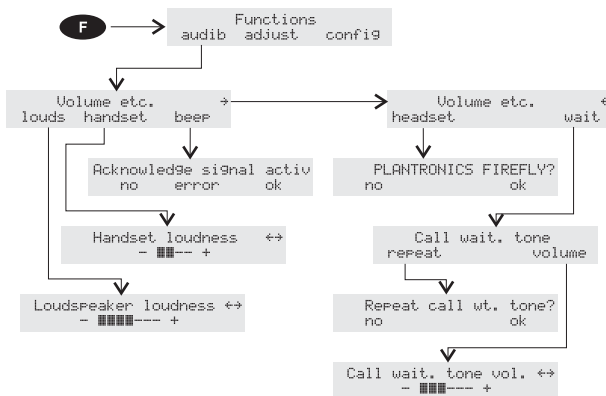


Fig. 3

## Speaker volume setting

In the menu »Volume, etc.« (see figure 3 on page 11) press the softkey »louds«.

Use the arrow buttons to set the desired volume.
 Confirm your entry by pressing OK.

## Setting the volume of the handset

In the menu »Volume, etc.« (see figure 3 on page 11) press the softkey »handset«.

Use the arrow buttons to set the desired volume.
 Confirm your entry by pressing OK.

## Setting the volume while making a call

You can change the handset volume or the speaker volume during hands free calling while making a normal call.

Press the **F** button. Use the arrow buttons to set the volume as desired. Press the **ESC** button in order to return to the normal display during an ongoing call. If you confirm your entry by pressing the **OK** button instead of the **ESC** button, the permanently set value is overwritten by the newly set one.

## Setting the acknowledgement signals

With your telephone you can select whether the acknowledgement signals are always active (»ok«), never active (»no«) or only active when an incorrect entry is made (»error«). The default setting has the acknowledgement signal always active.

In the menu »Volume, etc.« (see figure 3 on page 11) press the softkey »beep«.

Press the softkey below the desired function.

```
Acknowledge signal activ
no      error      ok
```

Positive acknowledgement signal (1 long beep): Your entry has been received and stored by the phone.

Negative acknowledgement signal (3 short beeps): Incorrect input not accepted by the phone. The desired action cannot be carried out.

## Setting the call waiting signal

If the function call waiting (see page 15) is enabled on your telephone you can set the volume of the call waiting signal. You can also select whether a waiting call is signalled only once, or several times.

In the menu »Volume, etc.« (see figure 3 on page 11) press the softkey »repeat«.

If you want the waiting call to be signalled only once, press the softkey below »no«. To have a waiting call signalled several times, press the softkey below »ok«.

```
Repeat call wt. tone?
no                ok
```

In the menu »Volume, etc.« (see figure 3 on page 11) press the softkey »volume«.

Use the arrow buttons to set the volume of the call waiting signal. Confirm your entry by pressing OK.

```
Call wait. tone vol. ↔
- ■■■■--- +
```

# Settings

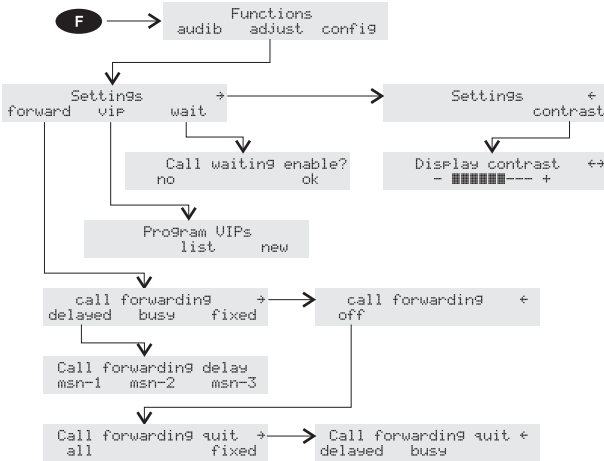


Fig. 4

## Programming call forwarding (call rerouting)

Call rerouting can be configured separately for any of the entered numbers (MSN).

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

- »delayed« Call forwarding delayed  
All calls for the number for which delayed call forwarding has been configured are signaled for a defined time at the exchange office 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.  
(Z.B.: There are already two (2) connections made, or one connection has been made and call waiting is not permitted.)
- »fixed« Permanent call forwarding:  
All calls are forwarded. Your telephone will not ring, when this number is called.

The following example describes the configuration of a delayed call rerouting for the extension number MSN1.

## Activate call forwarding

In the menu »Call forwarding delay« click the softkey »msn-1« (see figure 4 on page 13).



Enter the number to which the calls are to be forwarded.  
In this example: »0123456789«.

```
Call forwarding delay
MSN-1>0123456789_
```



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

```
Call forwarding delay
MSN1>0123456789 ...
```

## Viewing current call forwarding

When the telephone is idle, a »C« on the top line indicates that call forwarding has been activated. If you wish to view the call forwarding setting, proceed as described on page 6.

## Deactivating call forwarding

In the menu »Call forwarding« press the softkey »off«.



Indicate the type of call rerouting you wish to deactivate.

```
Call forwarding quit →
all fixed
```



Select the telephone number for which you wish to deactivate the call forwarding feature.  
Call forwarding is deactivated. The three dots at the right lower corner flash alternately.

```
Call forwarding quit?
msn-1
```

```
Call forwarding quit
MSN-1 ...
```

## Programming VIP numbers

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

## Programming VIP entries

The following example describes how to program a VIP entry for destination »U5«. If you wish to program further entries, proceed as described for "U5".

In the menu»Program VIPs« press the softkey »New«. Use the arrow keys to select the storage location and confirm by pressing OK.



Enter the name of the VIP entry »V5«. In this example: »TONY«. Confirm your entry by pressing OK.



```
Program VIP name
V5>TONY_
```



Enter the telephone number. In this example: »0123456789«. Confirm your entry by pressing OK.



```
Program VIP number
V5>0123456789_
```

```
Reprogram VIP ↔
V5: TONY
```

## Editing VIP entries

In the menu »Program VIPs« press the softkey »list«. Use the arrow keys to select the desired entry and confirm by pressing OK. Now proceed as has been described for programming VIP entries.

## Call waiting

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 12).

### The following entries are possible for the call waiting feature:

- »no« With an ongoing connection or while a connection is being established, no further calls will be signaled. The caller hears the busy signal.
- »ok« Call waiting is possible when there is only one active call waiting and no other call is waiting at your telephone.

In the menu »settings« press the softkey »wait«.



Select the appropriate setting by pressing either »no« or »ok«.

```
Call waiting enable?
no                   ok
```

## Setting the contrast

You can set individual contrast levels.

In the menu »settings« press the softkey »contrast«.



Use the arrow buttons to set the contrast. Confirm your entry by pressing OK.



```
Display contrast ↔
- ■■■■■----- +
```

# Operation

## Important notes

Not all of the performance features described here are implemented in the ISDN standard connection or in the pabx. Contact your service provider to determine how or if you must apply separately for the individual performance features for your ISDN connection.

If the ISDN telephone is disconnected from the ISDN network, (e.g. by unplugging the ISDN connector of the phone or by switching off or resetting the pabx), several settings and lists will be lost.

Z.B.: Temporarily stored text messages (SMS, UUS1), a requested Call-Back on busy or data downloaded from the pabx.

## Starting a call

### Dial number - no correction possible



Dial number

### Dial number - correction possible



Dial number

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

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 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. Once the called party has answered the call, just lift up the handset.

If a call can not be put through because the number is inhibited via the calling filter, the following message will appear in the display »Inhibit.:# ext. number«.

## Other options for dialing without lifting the handset

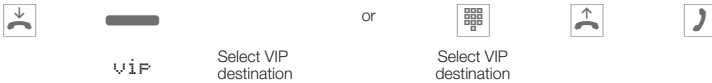
The option of dialing without lifting the handset and of correcting or adding to a number also exists during dialing:

- from the redialing memory (see page 19).
- from the caller list (see page 20).
- from the VIP memory (see page 14).

- from the direct dialing memory (see page 5).

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 VIP memory



### Dialing from the direct dialing memory



### Dialing from the pabx telephone directory



### Initiating a call using a set extension 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 number that is transmitted is shown in the second line of the display (>msn-1<...>msn-3<») or the name that you have assigned to this number (MSN).



### No number transmission

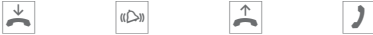
During an external or internal call, you can prevent the number from being transmitted (displayed) to the party you have called. You can set this function specifically for the next call, or permanently (see page 9).



## Accepting a call

In its initial state the telephone will accept all calls, regardless of the service and dialed up MSN extension number. If two calls are signaled simultaneously the first one is accepted when you lift the handset. The second call is then no longer signaled or indicated in the display. The second caller will then hear the busy signal.

The telephone number of the caller is shown on the first line in your display. The second line shows on the right the MSN extension number or the name (»msn-1«...»msn-3«) that the caller has dialed.



## No number transmission

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). You can set this function specifically for the next call, or permanently (see page 9).



## Rerouting / rejecting a call

If you are unable, or do not wish to accept a call, you have the option of rejecting or forwarding this call. To do this, press the softkey below »reject«. The calling party hears the busy signal.

Press the softkey below »x-fer« to forward the call to a different subscriber.

### Rejecting

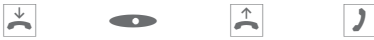


### Call Deflection




## Redialing

### Simple redialing



### Expanded redialing

In the expanded redialing function the 5 previous calls, connections and dialed telephone numbers are stored. You can view these by pressing the  button or the arrow buttons and subsequently have them redialed automatically.



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

»↓↑« connection

»↑↓« call

»↑↓« 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 expanded redialing



### 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.



When the telephone is idle, autodialing is indicated in the display on the second line by pressing the softkey »autodial«.

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.

You can cancel automatic redialing by pressing the redial button.

## 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 speaker 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 automatic dialing press **ESC**. If you like to deactivate automatic redialing in the idle state of the phone, proceed as follows:



## Caller list

The telephone has a caller list, which stores up to 10 callers. Entries in the caller list are indicated by the softkey »list« in the lower row of the display. 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 first line of the display (e.g.: »New calls: 4!«) and the number of new SMS or UUS1 messages on the second line of the display (e.g.: »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..

E.g.: »3/10: 1122334455..... \*«.

If the number in this entry is identical to a number in the telephone directory (telephone directory of the pabx) the name can be displayed instead of the number. You can also view the time and the date of an entry as well information (if applicable) about it.

## Calls

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.

## SMS / UUS1 messages

If you have received a message, the number of messages you have received in total is displayed when the phone is in idle. 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 F key you can read the received message immediately, or save it in the list of temporary SMS or UUS1 messages for reading at a later time.

After you view a new message that is located in the list of temporarily saved UUS1 or SMS messages, that message is then deleted from the caller list.

## Viewing the caller list



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

```
UUS:2    08:30    →
tbook    vip      list
```



Press the softkey below »list«.

```
17.02.02 08:30    →
tbook    vip      list
```

The number of new entries is shown on the display.

```
New calls: 4!
Messages: 1!
```

Recently added entries are also shown on the further lines in the display.

```
call    today    07:55 ↔
1/06: JOHNSON,E    *
```

In the upper row of the display you see the type of entry: (»Call«, »UUS«, »SMS«), the date (for the first two days »today« or »yesterday«) and the time. In the lower row you see the telephone number (and the name, if applicable) and the state of the entry.

»\*« new call or new UUS1 or SMS text message

»☐« call

When you view the caller list again, entries that you have already viewed but not deleted are no longer marked by »\*« in the bottom line of the display, but rather by »☐«.



You can view other entries using the arrow buttons.

```
UUS yesterday 15:42 ↔
3/06: 112233445566
```

## Further information about a call



If you wish to view more information about the entry, press the F button.

```
call 14.02.02 08:04 ↔
5/06: PETERS,J.,.
```



You have the option to delete the entry or view more information. Press the softkey below »info«.

```
5/PETERS,J.    r
MSN-3 delete? info
```

On the top line of the display you can see for which previously entered numbers (MSN) the entry was made.

```
5/ for MSN-3 ↔
```

The number of calls is now displayed on the bottom line of the display (in this example: »2«).

```
5/PETERS,J. ↔
( 2 C)
```

 C

Press C to stop viewing the information.

## Further information about a text message

 F

If you wish to view more information about the entry, press the F button.

```
UUS 14.02.02 08:04 ↔
5/06: PETERS,J.
```



Press the right arrow button to view further options for this message.

```
1/Miller office * →
read save
```

```
1/Miller office **
MSN-2 delete? info
```



Press the softkey »read«. The arrow (»←«) in front of the name or telephone number indicates an incoming text message.

```
1/Miller office * →
read save
```

```
* UUS 1/2 ←Miller Offi →
Thanks! Let's meet at 3.
```





Press the arrow buttons to view the messages entirely.

```
Thanks! Let's meet at ←
3.30
```

 OK

Press ok if you have finished reading.

You have the option to delete the entry, save it or view more information.

```
1/Miller office * →
read save
```

»save«

Saving the message in the list of temporary messages (see page 26) and deleting the entry in the caller list.

»delete?«

The message is deleted immediately and added to the list of temporary messages.

"info"

Viewing further information about the message.

For example: The MSN extension number to which the message was sent and the telephone number of the sender.

## Dialing from the caller list



list

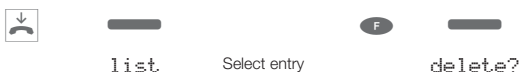
Select entry



or



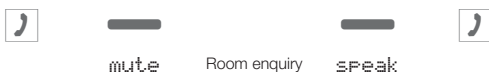
## Deleting an entry from the caller list



## Muting and open listening

### Muting

The mute function allows you to switch off the handset microphone during a normal call. 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.



### Open listening

The »Open listening« 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.



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

## Using a headset

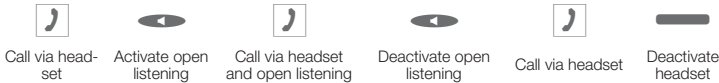
You can connect a headset to your telephone. For this, one of the functions buttons (see page 5) must be configured as a headset key.

### Activating and deactivating the headset

The handset remains in its cradle when »headsets« are being used.



## Activating and deactivating open listening while using the headset



## Message

This phone can receive announcements, but can not initiate announcements on its own. An announcement is accepted automatically by activating the Speaker function when the phone is in idle, provided the announcement lock (inhibit) is not activated (see page 5).

When a message comes in, the number of the party sending the message appears in the display of the phone being called. The message is preceded by a brief acoustic signal over the speaker. The message can be terminated at any time by pressing the ESC key.

## 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 Signaling). You can input a text message using the keypad on the phone (see page 5).

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; text messages can only be sent/received for the first phone number entered in the telephone (»15H-1«).

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.

A list is available in the telephone for receiving SMS and UUS1 text messages in which these messages are temporarily stored. Up to five received text messages can be saved in each of these lists. The last, previously sent text message is also stored in these lists. If there are already five received text messages stored in a list, no further text messages of that particular type can be received. When a text message is then sent, it is stored in the corresponding list and the last, previously sent text message is then deleted.

### 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. An SMS is restricted to 160 characters.

Sending/Receiving of SMS messages is only possible:

- When you have registered this performance 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.
- When you use this telephone with a system telephony pabx system that supports the SMS performance feature.

Consult the provider of the SMS center that has been configured to establish in which cellular 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 (e.g. images, audio).


## 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 performance feature with external telephones if »UUS1 (User to User Signalling)« has been applied for (and approved) for your ISDN connection.

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

## 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 in the menu »Send UUS mail« (»direct«, »vip«, »new« or the  button).

To select a number assigned to a function key (»direct.«) you can also press that corresponding key.

Begin as follows:



mail

uus or sms

new

### Example: Creating a UUS1 text message



Enter the text.

In this example: »MEETING 9.30 TO 11.00 GEORGE«.

Send mail

UUS>MEETING 9.30 TO




Press the arrow buttons if you wish to check the UUS1 message once again.


Send mail


UUS>".30 TO 11.00 HANS\_

OK

Confirm your entry by pressing OK.

-  Press the corresponding softkey to select a number stored in your telephone, or press »new« to enter a new phone number. Example: »new«.
 

Send mail / UUS  
 direct    vip    new
-  Enter the telephone number. For example: »22«.
 

Define targt. numb  
 >22\_
-  Confirm your entry by pressing OK. The UUS1 text message is then transferred to the defined recipient.
 

Send mail / UUS    ...  
 Bes.. →22

The most recently sent message will be stored temporarily in your telephone.

When sending text messages the first number (»MSN-1«) entered in the telephone is transmitted with the message.

## Viewing a new text message

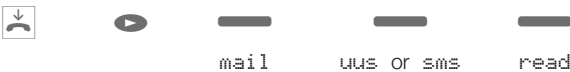
You can view a new message using either the caller list (see page 20) or the list of temporarily stored text messages (SMS or UUS1).

### Temporarily stored 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.
- Putting a text message into the list of permanently stored messages (UUS1 only).

Begin as follows:



### Example: Viewing temporarily stored UUS1 text messages

The most recently added text message is displayed first. On the first line of the display is shown the number of the short message on the list together with the telephone number of the recipient or the sending party.

A new, unread text message is marked with an »\*«.

An arrow in front of the number or the name for the text message that you are viewing indicates a received or sent text message (Receiving: »+0123456789«; Sent:

»0987654321«).

In this example: »UUS 1/3 +0123456789«

Entry 1 of 3 (»UUS 1/3«), text message received (»+«) and the telephone number (»0123456789«).

Press the arrow keys to view the entire text messages.

```
UUS 1/3 +0123456789 →
I¿LL PROBABLY BE 30
```

Press OK to access the next menu with further options.

```
I¿LL PROBABLY BE 30 ←
MINUTES LATE.
```

In the upper row of the display you see the date and the time, when you received the message. Press the arrow keys to view all possible actions. To select an action, press the corresponding softkey.

```
UUS 1 today 00:29 →
send delete? more
```

```
UUS 1 today 00:29 →
list
```

»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 25).

»delete?« Deleting a text message.

»more« Viewing the next temporarily stored text message.

»list« (UUS1 only) Movint 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.

Once you have read a message from the list of temporarily stored text messages, it is deleted from the caller list.

## 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 follows:



mail

uus

list

The first permanently stored text message is shown.

```
Select text ↔
1:autom. answer $
```

Press the arrow keys to view the individual text messages.

Press the OK to enter or change that text message. Confirm your entries by pressing OK.

F

Press the F- key to send or delete a message.

```
1/autom. answer
send 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 25).

»delete?«

Deleting a text message.

## Automatic sending of text messages (UUS1 only)

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

Begin as follows:



mail

uus

incoming



Press the softkey below »ok«, to activate automatic sending of messages or »no« to deactivate this feature.

```
Send Text 1 with call?
no ok
```

## 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 performance 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.
- Five SMS messages have already been stored in your telephone, preventing any further SMS messages from being received.

# Call waiting, Enquiry call, Broker`s call and three-party conference

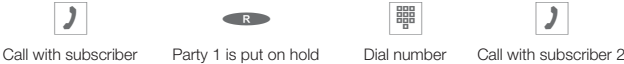
## Call waiting

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 15).



## Enquiry Call

You have the option of establishing another connection during an ongoing call using the enquiry call function.



An active connection can be terminated by pressing . You can return to the call that was previously put on hold.

## Broker`s call

If you have more than one connection active at your system telephone (call waiting or enquiry call), you can talk to these parties alternately.



If you have configured connection keys you can also carry out Broker`s calls between different callers using these keys.

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

## Conference call

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.



To end the three-party conference, press the softkey below »back\_to\_«. You are re-connected with the subscriber of the last previous active connection. The other subscriber is then put on hold.

## 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.



## Call-Back on busy (CCBS)

Using the function »automatic call-back on busy« you can reach a party whose line is busy as soon as he/she hangs up the handset at the end their call. This feature must be applied for at your network service provider. You can configure three call-backs at a time. The call-back is deleted after a time period defined by the network service provider (approx. 45 minutes). If you are using an LCR procedure (e. g. the LCR procedure of the pabx), the »Call-back on busy« function is carried out automatically by your standard network service provider.



## 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 »callback« on the second line of the display. Press this softkey to view the call-back calls. You can then view the individual call-back calls using the arrow keys. If you wish to delete a call-back call, select this call using the arrow key and then press the **F** key, followed by the softkey »delete?«.

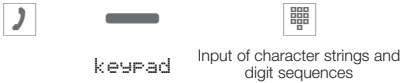
## Keypad and Tone Frequency Dialing (DTMF dialing)

During an ongoing call you can take advantage of other performance features using keypad sequences or DTMF dialing. In the telephone PC configuration program you can set whether keypad sequences or DTMF dialing is to be possible in the initial status of the telephone. The other, optional performance features can then be activated only after pressing the corresponding softkey.

If the display shows the softkey »keypad« tone frequency suffix dialing is possible right away. If the softkey »dtmf« is displayed, DTMF dialing is possible only after you press this softkey.

## Keypad

Using the Keypad function you can manage service or performance features in the PABX system or in the network of the service provider by entering character strings and digit sequences via the keypad.



## 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.

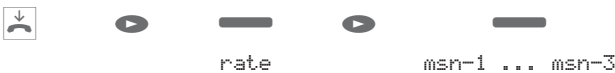


## Viewing and deleting call charges

Please note the instruction about viewing the call charges on page 31.

### Viewing and deleting call charges for individual MSN extension numbers

Begin as follows:



You can view the sum of the charges accrued.

MSN-1:	4.72 EUR+
msn-1	msn-2 msn-3

In this example for MSN -1.  
If you wish to view the charges for other MSN extension numbers, press the corresponding softkey.

MSN-3:	12.36 EUR+
msn-1	msn-2 msn-3

or

If you wish to delete the charges accrued for an MSN extension number, press the left arrow button.  
In this example for MSN -3.

MSN-3:	12.36 EUR →
single delete?	sum

Press the softkey »delete?«.

```
MSN-3:      12.36 EUR →
single delete?  sum
```

Press the right arrow button to view the charges for other MSN extensions numbers. Proceed as described for MSN-3 if you wish to delete these charges.

```
MSN-3:      0.00 EUR →
single delete?  sum
```

### Viewing/deleting the charges for the last call or the sum of the charges

Begin as follows:



rate

The charges for the call previously conducted are displayed.

```
Last conn.   1.44 EUR →
single delete?  sum
```

If you wish to view the sum of all of the currently accrued charges press the softkey »sum«.

```
Total:      118.44 EUR →
single delete?  sum
```

If you wish to delete the charges for an individual call or for all calls, press the softkey »single« or »total« and then press the softkey »delete?«.

```
Total:      118.44 EUR →
single delete?  sum
```

```
Total:      0.00 EUR →
single delete?  sum
```

If the sum of all the accrued charges is deleted, all MSN charge rate accounts are deleted simultaneously.

# Service functions

## Read firmware version of the telephone

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.

Begin as follows:



F



config

service

version



You then see the firmware version of your telephone. In this example: »U3.00«. Press the right arrow button to view further data.

```
Software-Identificatio++
type:elme9 CS290 U3.00
```



Press the C button to exit the menu.

```
Service Functions →
version software data
```

## Downloading 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 configuration data to your PC.

### Downloading new firmware via elmeg's server PC

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 six 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	Telephone number
elmeg server	++49-(0)5171-901190

Begin as follows:



The telephone then restarts from the BIOS.

If you are using your telephone with a pabx system, first enter the line access digit to obtain external line access, and then the number for the download server.



Enter the number of the Server PC:  
»05171901190«.

To cancel a download already in progress  
press the softkey »Abort« or the **ESC**  
button.

```
Please dial
                Abort
```

```
Please dial
05171901190
```

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).
- Downloading a new firmware via the ISDN port.

## 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 softkey »UPDATE«.

```
CS290-bios 1.03 by Ps
INFO      SET      UPDATE
```

Now proceed as explained on page 34 of these operating instructions.

**Attention:** The settings for the softkey »SET« 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.

Begin as follows:



F



config

service

data

Press the softkey below »ok« to reset the telephone to its initial state. If you do not wish to have the data deleted press the softkey below »no«.

```
Sure to delete all?
no                ok
```

The telephone is reset to its initial state. All data are deleted.

```
17.02.02 08:30 →
tbook    vip
```



# Warranty

1. ELMEG GmbH & Co.KG Kommunikationstechnik provides a 24-month warranty for this device in accordance with the following terms, starting from the date of purchase of the device from the dealer. This date of purchase must be verified by the original receipt, or other, appropriate documents.
2. Warranty claims shall be filed through the specialized dealer at which the device was purchased.
3. The warranty covers the rectification of all damage or deficiencies which may occur in/on the device within the specified warranty period and which are demonstrably based on material or manufacturing flaws. Damage or deficiencies not covered by the warranty include those resulting from incorrect connection, improper handling or non-observance of the programming instructions and instructions for use or force majeure. It is at the discretion of the manufacturer to replace the defective device with one of the same value, instead of performing repairs. No further warranty claims are accepted.
4. The warranty does not cover deficiencies which have a negligible effect on the value or usability of the device. Other costs, such as for installation, mileage and travel, are expressly excluded.
5. This manufacturer's warranty shall be nullified if modifications are made to the product, or if the product is operated in a country for which it was neither developed nor manufactured.
6. The warranty presupposes that the device is shipped packaged completely (preferably in the original package), safe against breakage and impacts, with verification of warranty enclosed. Shipping is done at the risk and cost of the customer.
7. In the event that testing reveals that there are no grounds for warranty claims, or that the product is free of deficiencies the costs incurred for repair work and testing/examination shall be charged to the customer.
8. Furnishing of a warranty neither extends the current warranty term, nor does it mark the beginning of a new warranty term. The warranty period for installed spare parts ends upon termination of the warranty period for the overall device.

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Subject to modifications / 04-2002 / 30x1

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**Konformitätserklärung / Declaration of Conformity /  
Déclaration de conformité / Dichiarazione di conformità**

**Konformitätserklärung gemäß dem Gesetz über Funkanlagen und  
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Declaration of Conformity appropriate to the law of radio and telecom terminal equipment (FTEG) and

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Déclaration de conformité selon la loi sur les équipements terminaux de télécommunication (FTEG) et la directive  
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telecommunications terminal equipment

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Équipement de terminal de télécommunication

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*EN60950: 2000*

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Dieses Gerät erfüllt die Anforderungen der EU-Richtlinien:

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Cet appareil répond aux exigences des directives CE :

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