
Thank you for buying a Siemens mobile phone. We wish you much enjoyment and pleasure with it.

If you read through the user guide carefully, you will get to know all the functions of the phone. In particular, please observe the safety and PIN/Security precautions).

The wireless phone described in this guide is approved for use in TDMA 800, TDMA 1900, GSM 900, and GSM 1900.

FCC/Industry Canada Notice

Your phone may cause TV or radio interference (for example, when using a telephone in close proximity to receiving equipment). The FCC or Industry Canada can require you to stop using your telephone if such interference cannot be eliminated. If you require assistance, contact your local service facility. This device complies with part 15 of the FCC rules. Operation is subject to the condition that this device does not cause harmful interference.

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See also Index at the end of this User Guide

Safety precautions

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Switch off in hospitals or in the vicinity of medical devices, e.g. pacemakers or hearing aids. Mobile phones can interfere with the function of these devices.



Always use the handsfree kit for calls while driving (p. 96)!



Mobile phones must be switched off at all times in an airplane. Prevent accidental activation (p. 69).



Switch off near gas stations, fuel depots, chemical plants or blasting operations. Mobile phones can interfere with the operation of technical installations.



Do not examine the active infrared interface [Class 1 LED product (classified according to IEC 60825-1)] using optical magnification devices.



The ring tone is reproduced through the earpiece. To avoid damage to hearing, first accept the call, then hold the phone to your ear.



SIM card may be removed. Caution: small parts could be swallowed by children.



The voltage specified on the power supply must not be exceeded.



We recommend you use original Siemens batteries (100% mercury-free) and charging devices. Otherwise, considerable health risks and damage to the product cannot be excluded.



Neither the phone nor the battery (100% mercury-free) may be opened under any circumstances. Changes to this device are strictly prohibited, as they will invalidate the type approval criteria required for operation of the unit.

Please observe:



Dispose of used batteries and phones according to the legal regulations.



Mobile phones can interfere with the operation of nearby TVs, radios, and PCs.



We recommend you use only original Siemens accessories to avoid possible damage and ensure that the phone complies with all the relevant regulations.

Improper use invalidates the warranty!

Safety Information

Important: Read this information before using your wireless handheld phone.

As this mobile phone is equipped with a fixed (non-retractable) antenna some paragraphs in the below text may not be applicable.

Antenna care

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

Phone operation

Normal position

Hold the phone as you would any other telephone with the antenna pointed up and over your shoulder.

Tips on efficient operation:

For your phone to operate most efficiently:

- Extend your antenna fully, if applicable
- Do not touch the antenna unnecessarily when the phone is in use. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.

Driving

Laws pertaining to the use of mobile phones while driving vary significantly from state-to-state and some-

times even from locality-to-locality within states. For example, some areas may allow persons to use their mobile phones only if they employ a handsfree device, and some areas may prohibit the use of mobile phones entirely. Accordingly, Siemens recommends that persons check the laws for the areas in which they drive or will be driving. For areas where the use of mobile phones while driving is permitted, Siemens encourages persons to use their phones responsibly and to employ handsfree devices. Also, if using your phone while driving, please:

- Give full attention to driving – driving safely is your first responsibility;
- Use hands-free operation, if available;
- Pull off the road and park before making or answering a call if driving conditions so require.

For vehicles equipped with an Air Bag

An air bag inflates with great force. **DO NOT** place objects, including either installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Safety Information

Electronic devices

Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

Pacemakers

The Health Industry Manufacturer's Association recommends that a minimum separation of six (6") inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers:

- should ALWAYS keep the phone more than six inches from their pacemaker when the phone is turned ON
- should not carry the phone in a breast pocket;
- should use the ear opposite the pacemaker to minimize the potential for interference.
- should turn the phone OFF immediately if you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider or your hearing aid manufacturer to discuss alternatives.

Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn you phone OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

Turn your phone OFF in any facility where posted notices so require.

Safety Information

Aircraft

FCC and Airline Regulations prohibit using your phone while in the air. Switch OFF your phone before boarding an aircraft.

Check and comply with the policy of your airline regarding the use of your phone while the aircraft is on the ground.

Blasting areas

To avoid interfering with blasting operations, turn you phone OFF when in a "blasting area" or in areas posted: "Turn off two-way radio." Obey all signs and instructions.

Potentially explosive atmospheres

Turn you phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include: fueling areas such as gasoline stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

Emergency Calls

Your wireless phone can be used to make emergency calls. Check to make sure you have a strong enough signal and that the battery has enough charge available.

You can originate an emergency call from the main display screen.

You can either enter the local emergency number such as 911 and then press the talk key or you can use the red  key as a short cut:

 Press long

 Press to start call

SAR (Specific Absorption Rate)

THIS SIEMENS S46 PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless Siemens S46 phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the mission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg.* Tests for SAR are conducted using standard operating positions specified by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to

operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this Siemens S46 phone when tested for use at the ear is 1.12 W/kg, and when worn on the body, as described in this user guide, is 0.41 W/kg. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

The FCC has granted an Equipment Authorization for this Siemens S46 phone with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this Siemens S46 phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID PWX-S46.

SAR (Specific Absorption Rate)

For body worn operation, to maintain compliance with FCC RF exposure guidelines, use only Siemens approved accessories. When carrying the phone while it is on, use the specific Siemens belt-clip that has been tested for compliance.

Use of non-Siemens-approved accessories may violate FCC RF exposure guidelines and should be avoided.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) web-site at <http://www.wow-com.com>. For SAR information in other regions please look under product information at www.my-siemens.com

* In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

Overview of the phone

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Infrared port

(PC communication)

Display indicators

Signal strength/
battery level.

Left side keys

- During a call:
Volume loud - quiet.
- In menus and lists:
Scroll up and down.
- In standby mode:
Upper key: Select GSM or
TDMA mode
Lower key: Hold **down** for
voice control.

Addressbook key

Press 1 x for Addressbook.
Press 2 x for Group:VIP.

Call key

Dial displayed phone number
or name, accept calls.
Display last calls in standby
mode.

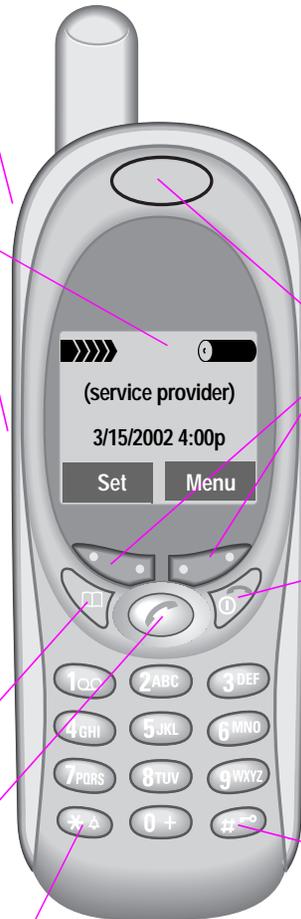
Ringer

To switch on and off:

 Hold **down**.

Device interface

Connection for charger,
headset etc.



Loudspeaker

Soft keys

Voice Memo key

Hold **down**:
Start the recording.
Press **briefly**:
Play recording back.

On/Off/End key

Press **briefly**:
End call or jump back to the
previous menu level.

Hold **down**:
Switch phone on and off or
return to standby mode.

Key lock

To switch on and off:

 Hold **down** and
press.

 Confirm (switching
off only).

Microphone

Display symbols

On the phone display (selection):

Displays

	Strength of incoming signal.
	Charging completed.
	Battery indicator.
	All calls are forwarded.
	Ringer off.
	Short ringer (beep) only.
	Ringer on only, if caller number is stored in the Addressbook.
	Alarm is set.
	Key lock active.
	Transmission unencrypted.
	Phone numbers/names:
	SIM card.
	Phone memory.
	Restricted SIM card.
	No network access.
	Function active.
	Unknown network function.
	Auto Call answering on.
	Addressbook.
	Indicates whether upper or lower-case letters are active.
	Text input with T9.
	WAP Offline.
	WAP Online.

	Infrared standby.
	Infrared transmission.
	Headset mode.
	Additional handset mode.
	Car Kit active.

Calendar icons

	Memo
	Meeting.
	Call.
	Birthday.
	Speech memo.

Soft keys

	Scroll up and down in menus and lists.
	Message received.
	Voice mail received.
	Missed call.
	Store in Addressbook.
	T9 word selection.
	SIM services (example).
	Switch to handset.
	Store in the archive.

Getting Started

The phone can be operated in TDMA or GSM mode. You can select one of these two modes as the standard or use automatic selection (p. 81). Not all features are available in any of both modes.

Installation

- 1**  **Insert SIM card (p. 12)**
Your service provider has supplied you with a SIM card that is required for both GSM and TDMA mode.
- 2**  **Insert the battery (p. 13)**
The battery must be inserted first.
- 3**  **Charge battery (p. 14)**
The battery must be fully charged before switching on your phone for the first time.
- 4**  **Switch on phone (p. 15)**
Hold down On/Off/End key
- 5**  **Enter PIN (p. 15), if required in GSM mode**
The SIM card can be protected with a PIN (personal identification number). If required this PIN must be entered after switching on. Please note the information on security (p. 78).

After switching on (p. 16)

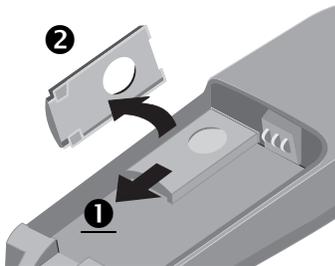
Depending on the configuration, several settings must be made after the phone has been switched on for the first time

Getting Started

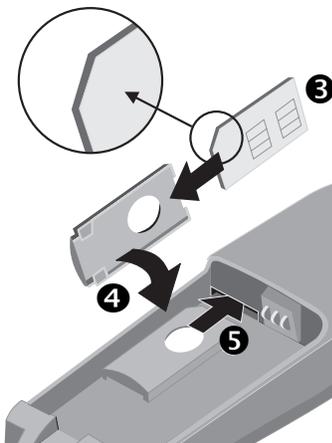
Insert SIM card

The service provider may have supplied you with a SIM card for GSM mode on which all the important data of your number are stored.

If the SIM card has been delivered in credit card size, snap the smaller segment out and remove any rough edges.



- Slide out the red SIM carrier ① and twist the carrier in the direction indicated by the arrow ②.



- Insert SIM card in the carrier ③. Make sure the angled corner is in the correct position, contacts pointing in the right direction.
- Twist SIM carrier until the SIM card faces the phone ④.
- Insert SIM carrier in the phone until it clicks into place ⑤.

Security/PIN

The SIM card can be protected against misuse with a 4 - 8 digit PIN (personal identification number). Depending on the type of your SIM card, the PIN can be changed or the protection can be activated and deactivated (p. 78).

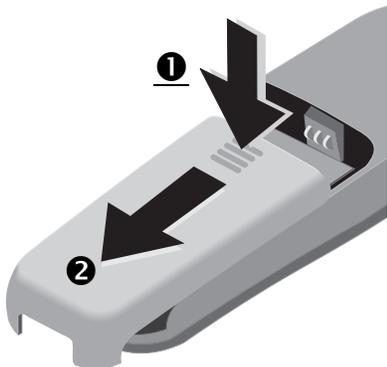
Type of the SIM card

Only 3-Volt SIM cards are supported. Older SIM cards (5-Volt technology) cannot be used. Please contact your service provider if you have an older card.

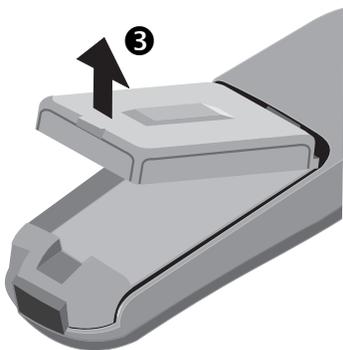
Getting Started

Remove battery

- Unlock battery cover ① and remove ②.

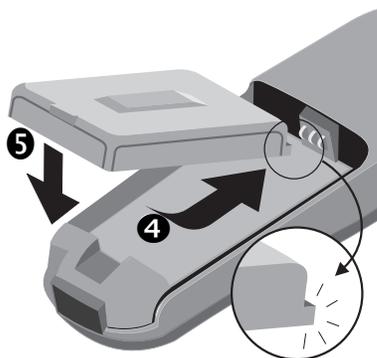


- Remove the battery ③.

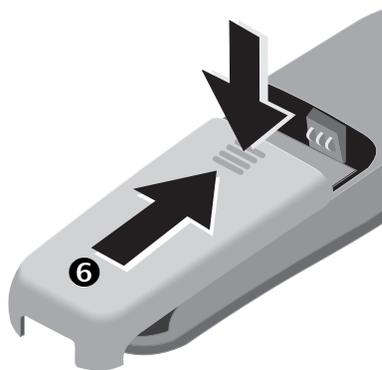


Insert battery

- Insert battery in the phone ④ and ⑤.



- Replace battery cover and push gently in the direction of the arrow ⑥, until it engages.

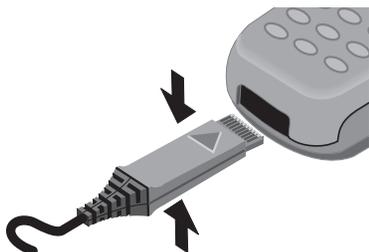


Getting Started

Charge battery

The battery is not fully charged when delivered. You should therefore:

- Plug in charger cable at the bottom of the phone and plug in the power supply unit to the power supply (only use the charger supplied; charge for at least two hours).
- Push the sides of the charger cable plug together and pull to remove it.



Charging

The following is shown at the top of the display:

-  When charging is in progress.
-  End of charging.

An empty battery is fully charged after **about 2 hours**. Charging is only possible in an ambient temperature of 5°C to 40°C (the charge icon flashes as a warning when the temperature is 5°C above/below). The voltage specified on the power supply unit must not be exceeded.

Standby time

A fully charged battery provides **60 to 300** hours of standby time or **100 to 360** minutes of talk time. The standby times/talk times are average values and depend on the operating conditions (see table below).

Charge level display (fully charged to empty):



A beep sounds when the battery is nearly empty.

Battery totally discharged

If your mobile phone will not switch on and no charge icon is displayed when you plug in the charger, it may be that the battery is totally discharged and has to be reactivated.

If this is the case, leave the charger cable plugged in. The charge icon will appear after a maximum of 2 hours. The battery is then automatically recharged.

Decrease of standby time

Operation carried out	Time (min)	Decrease of tstandby time
Calling	1	30 to 60 minutes
Display back light *	1	30 minutes
Network search	1	5 to 10 minutes

* key input, games, organizer etc.

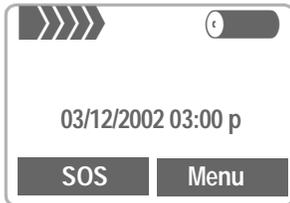
Getting Started

Switch on, no SIM

If you have **no** SIM card, the phone can be used only with a **limited** functionality.



Hold **down** On/Off/End key to switch on.



Provided there is a strong enough signal and the battery has sufficient charge, you can still make an emergency call without a SIM card by pressing the **SOS** soft key use the following parts of the menu:

Demonstration

Games

Clock

Alarm clock

Calculator

Currency converter

Calendar

Appointments

Stopwatch

Switch on with SIM

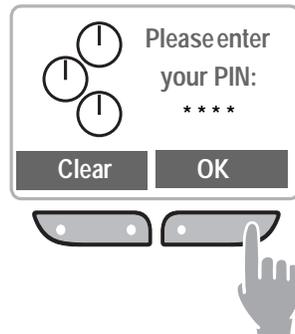
If you have inserted a SIM card you may be requested to enter your PIN (personal identification number), depending on the SIM card you use.



Enter your PIN using the digit keys (shown as a series of asterisks; if you make a mistake press **Clear**).



Confirm input with the right soft key (see figure).



Logging on to the network will take a few seconds.

SIM problems

If **Please insert your SIM card** is displayed, check for faults (p. 91).

PIN

If the PIN is entered incorrectly three times, the SIM card is locked. Unlock with PUK (S. 78).

Activate, deactivate PIN control or change PIN (p. 78).

Getting Started

After switching on

Technology (TDMA/GSM)

The phone can be operated in TDMA networks as well as in GSM networks. When you switch on your phone for the **first** time, it automatically searches the network currently available (p. 81).

Network connection

After network search has been started, the strength of the incoming signal is shown in the top line of the display.



Strong signal.



A weak signal reduces the call quality and may lead to loss of connection. Change your location.

Set the display contrast

After switching on the phone, you can set the display contrast if necessary (p. 76).

Import SIM card Phonebook

When you insert a SIM card for the first time and whenever you change the SIM card, you are asked whether you want to import the SIM card Phonebook in the Addressbook on the phone.

In the SIM card Phonebook, only names and phone numbers are stored, therefore some data fields of the Addressbook on the phone will be left empty. You can edit the entries of the Addressbook to complete them later (p. 27).

Please do **not** interrupt the import. Do **not** accept incoming calls at this time. Follow the instructions on the display.

To copy the data on the SIM card to the phone's Addressbook later, you can use the **Copy into**  function of the Phonebook menu (p. 30).

Legend

The following symbols are used:

	Enter numbers or letters.
	On/Off/End key. Hold down : In menus or lists, go back to standby mode. In standby mode, switch off device. Press briefly : Go back one menu level.
	Call key. Press to dial a phone number that has been entered or picked out from the Addressbook.
	Press the displayed soft key on the side indicated.
	
	Use the left soft key to scroll up and down in menus and lists.
	Displays a menu or function that can be started by simply pressing the soft key underneath it.
	Function depends on the service provider, special registration may be necessary.
 	Only available in either GSM or TDMA mode.

Menu functions and option menus are represented as:

Function	Description
	Display the selected entry.
	Delete an entry.

Menu control using the soft keys

Example: Composing an SMS

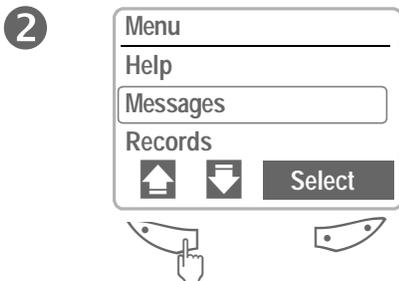
To describe the steps for menu access in this user guide, the following **abbreviated notation** is used:

Menu → Messages → New SMS

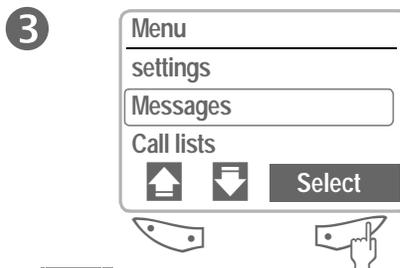
This is how you proceed on the phone:



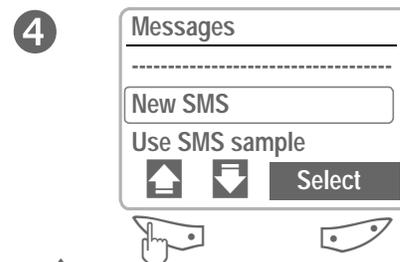
Menu Open menu
From standby mode by pressing the **right** soft key.



Scroll to messages.
Press the **left** soft key **on the right side** to scroll down.



Select Press.
Start the Messages submenu by pressing the **right** soft key.



Scroll to New SMS.
Press the **left** soft key **on the left side** to scroll up.

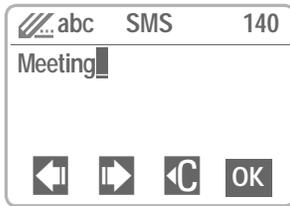


Select Press.
Start the text editor for New SMS by pressing the **right** soft key.

Menu control using the soft keys

19

6



Write your message.

Using "T9" to quickly write a text (p. 39):

"T9" deduces the correct word from the individual key entries. You simply press the key where the relevant letters are located **once only**. Since the display changes as you proceed it is best if you finish a word without looking at the display.

 Inserting a blank ends word.

 Going to the right ends a word.

 Delete a word letter for letter.

 Select new word suggestion.

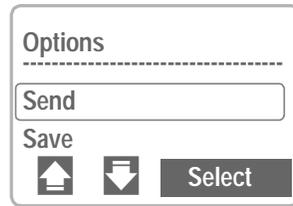
7



OK Start the option menu.

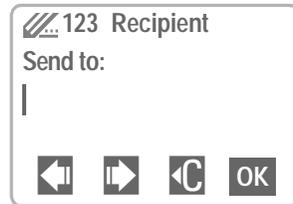
Start the **Options** submenu by pressing the **right** soft key.

8



Select Press.

9



Enter phone number

or



Select from the Address-book.

Send

Send message.

Send the message to the service center for transmission.

10

If **Message type**, **Validity period** or **Service centre** are requested, (p. 41).

Save

Press to save the message after it has been sent.



Hold **down**.

Go back to standby mode.

Making a phone call

Dialing with number keys

The phone must be switched on (standby mode).



Enter the phone number (always with prefix, if necessary with the international dialing code).



A **short** press clears the last digit, a **long** press clears the entire number.



Store phone number in the Addressbook (p. 26).



Press the Call key. The phone number displayed is dialed.

International dialing codes

Many international dialing codes are stored in your phone:



Hold **down** until a "+" symbol appears. This replaces the first two digits of the international dialing code.



Press.

Select the required country. The international dialing code is displayed. Now add the national number (in many countries without the first digit if it is a zero) and press the Call key.

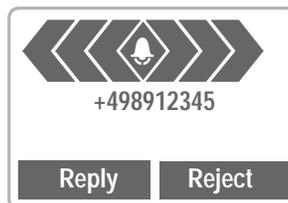
End call



Press the End key **briefly**. The call is ended.

Press this key even if the person on the other end of the line has hung up first.

Accept call



The phone must be switched on (standby mode).



Press **or**



press again.

You can answer incoming calls using any key (p. 77).

Reject call



Press **or**



press **briefly**.



Diverts the caller e.g. to the mailbox if this is set (p. 53).

Making a phone call

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When a number is busy

If the called number is busy or cannot be reached because of network problems, the following options are available (depending on the service provider):

Call back Press. **GSM** 

Your phone rings when the busy number is available. The number is dialed with the Call key.

Options Open menu.

Call back	See above.
Prompt	Reminder A beep reminds you to redial the phone number after 15 minutes
Auto dial	Auto redial previous numbers The number is automatically dialed for up to 15 minutes at increasing intervals. During this period, no other number can be dialed. To end press End key or press Off .

An incoming call will end the function.

Redial previous numbers

To redial the phone number **last** called:

 Press the Call key **twice**.

To display the list of other numbers that were dialed previously:

 Press the Call key **once**.

 Scroll to the required phone number in the list.

 Dial number.

 Store number in the Address-book (p. 26).

Records: The numbers of calls that have been received, dialed or missed are stored for call back purposes (p. 51).

An incoming call will interrupt any other use of the phone.

Functions during the call (p. 22).

Switch off ringer for the current call (but not, if "Any key answer", page 77 is active):

 Hold **down**.

The call is displayed. The caller hears the dialing tone.

Making a phone call

During a call

Call waiting



You may need to register for this service with your service provider and set your phone accordingly (p. 82).

During a call, you may be advised that there is another call waiting. You will hear a special tone during the call. You have the following options:

Swap

Swap Accept the waiting call and place the current call on hold.

To switch between the two calls, press **Swap** each time.

Reject

Reject Reject the waiting call. The caller will hear the busy tone

or

Divert if this is set, the caller will be diverted to the mailbox for example (p. 53).

End current call



End the current call.

Reply Accept the new call.

Set volume



You can adjust the handset volume with the keys on the **left-hand side** of the phone.

If a car kit is used, its volume setting does not affect the usual setting on the phone.

Dictaphone

To play back a recording (the person on the other end of the line also hears it), press the key on the **right-hand side** of the phone **briefly**.

To record the call, hold **down** the key on the **right-hand side** of the phone (p. 55).

The use of this feature may be subject to restrictions under criminal law or other legal provisions. Please inform the other party to the conversation in advance if you intend to record the call and keep such recordings confidential. You may only use this feature if the other party to the conversation agrees.

Phone number memo

You can enter a number with the keypad during a call. The person on the other end of the line can hear the number being entered. The number can be stored or contacted after the current call has ended.

Making a phone call

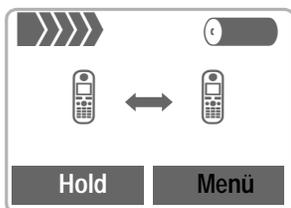
23

Swap/Conference

Some functions may not be supported by your service provider.

You can call another number during a call. You can switch back and forth between both calls or link all callers together in a conference.

During a call, inform the other party of your intention, then:



Hold Put the current call on hold.

You can now dial a new number. When the connection is established, you have the following options:

Swap

Swap Swap back and forth between the two calls.



End current call.
The following query is displayed:
"Back to the call on hold?"

Yes Return to the held call or

No The held call is ended.

Conference

menu Open call menu and select **Conference**.

A held call is added (conference call with up to 5 subscribers).

To end:



All calls are ended simultaneously when the End key is pressed.

Swap/Conference

In TDMA mode, a conference may have up to three subscribers.

Swap Press 1 x for conference
Press 2 x for 1st subscriber
Press 3 x for 2nd subscriber
then begin from start.

To end:



All calls are ended simultaneously when the End key is pressed.

Call transfer

menu Open call menu and select **Call transfer**.

The original call is joined to the second one. For you, both calls are now ended. Note: Not yet supported by all service providers.

Making a phone call

Call menu

The following functions are only available during a call:

 **menu** Open menu.

Microphone on	Switch the microphone on or off. If switched off, the person on the other end of the line cannot hear you. DTMF signals, however, can be heard. Alternatively:  Hold down . You will hear a DTMF key tone.
Volume	Adjust handset volume.
Conference	(p. 23) 
Time/charge	While the connection continues, the call duration and (if set, page 52) the call time/cost are displayed.
Send DTMF tones	See right.
Call transfer	(p. 23) 
Main menu	Direct access to the main menu.
Call status	List all held and active calls (e.g. participants in a conference). 

Send DTMF tones

Activation via the call menu, see left.

You can enter control codes (digits) during a call so that an answering machine can be controlled remotely. These digits are directly transmitted as DTMF signals.

Control codes (DTMF tones) stored in the Addressbook (p. 26) can also be used.

Making a phone call

Babysitter

Calls are made to only **one** phone number that is dialed by holding **down** the right soft key.

Switch on

Menu → Setup → Sicherheit → Babysitter

Select Press.



Enter phone code (see instructions below).



Confirm input.



Press.



Select phone number from the Addressbook or enter a new one (with name). The babysitter is now active.

Switch off



Hold **down**.



Enter phone code.



Press.



Confirm input.

Phone code

When first prompted, you define and enter the phone code (4 - 8 digits) (e.g. for Babysitter)

Please do not forget this code!

It applies to other functions as well but it may be changed at any time (p. 78).

Addressbook

You can store up to 400 entries in the Addressbook.

New entry



Open the Addressbook (in standby mode).

Addressbook

<New entry>

Businesscard

↑ ↓ Select



Select <New entry>.

Confirm.

Abc Addressbook

Last name:

|

First name:

▶



Enter the first or last name and a phone number (p. 27).



Make further entries field by field.

Last name:	Fax:
First name:	Street:
Company:	Post code:
E-mail:	City:/Country:
Phone:	State:
Tel./office:	URL:/SMS:
Tel./mobile:	Group:

OK Open menu.

Save Store entry.

URL:/SMS:

In TDMA mode, you can store the SMS address of this specific person at another service provider here.

Group:

You should only assign important entries to this group (VIPs).

You may display VIP entries at the top of the Addressbook (p. 28).

You can set your phone so that the ringer sounds only for calls from numbers in the VIP group (p. 73).

A call from a VIP entry can be announced by a special melody (p. 74).

Addressbook <-> Phonebook (SIM card)

The entries in the Addressbook are managed separately from those in the Phonebook on the SIM card. You can, however, exchange data between the Addressbook and the Phonebook.

For details see **Copy to SIM** (p. 28) or **Copy into** (p. 30).



Copy data from another Addressbook entry.

Addressbook

27

Phone number

Always enter the number with prefix, if necessary with the international dialing code (p. 20).

Text input

Press digit key repeatedly until the required letter is displayed. The relevant characters are shown in the display. The cursor advances after short delay.

 Press **once** for **a**, twice for **b** etc. The first letter in each name is automatically written in UPPERCASE.

1-9 Numbers are displayed after the relevant letter.

 Press briefly to delete the letter before the cursor, hold down to erase the whole name.

 Control cursor.

 Switch between UPPERCASE lowercase and digits.

 Activate/deactivate T9.

 Write: . , ? ! 0 +:.

 Create a blank.

Special characters

&, @, ... Special characters, (p. 39).

Read/change an entry

You can access all entries via the address list.



Open the Addressbook (in standby mode).



Select the required entry.



Open menu.



Press to display the entry.

Addressbook	
Last name:	Einstein
First name:	
Edit	



The entry is opened for changes.



Make the required changes.



Save the setting.

Right soft key

When you jump to a phone number while you are reading, you can start voice dialing using the right soft key:

Phone, fax number: **VoiceDial** (p. 33)

Addressbook

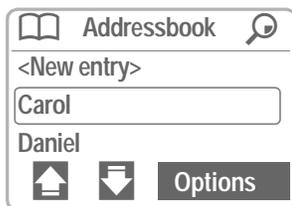
Call an entry



Open the Addressbook (in standby mode).



Select a name by entering the first letter and/or scroll to the name.



Press. The highlighted number is dialed.

If several numbers are stored in this entry, they are displayed in a list.



Select the required phone number.



Press.

Search for an entry

You can search efficiently through large Addressbooks. When the Addressbook is open, simply type the first letter of the name required.

The first entry that begins with this letter is displayed.

The search letters appear in the upper right-hand corner on the display next to the magnifying glass icon.

Addressbook-Menu

The following functions are available depending on the current situation:

Options Open menu.

Save	Store entry in the Addressbook.
View	(p. 27)
Group sorting	Show the Addressbook as an alphabetical list or with the entries of the VIP group (p. 26) at the top.
Edit	Display the entry for changes.
New entry	(p. 26)
Delete	Delete entry.
Delete all	Delete all entries after confirming command.
Copy to SIM	Highlighted entries are copied with name and the first phone number to the SIM card.
Phonebook	Switch to the Phonebook (p. 30) to be used as standard.
Send via ...	(see p. 89)
Print via IrDA	(see p. 89)
Voicodialling	Start the recording for voice dialing
Capacity	Display the capacity used and available.

Addressbook

Store control code

You can store phone numbers **and** control codes (DTMF tones) in the address book as standard Addressbook entries, e.g. for operating an answering machine control remotely.



Enter phone number.



Press until a "+" symbol appears on the display (pause for connection setup).



Enter DTMF signals (digits).



If necessary enter other pauses of 3 seconds to ensure correct processing at the destination.



Press to copy to the Addressbook and if required assign a name to it.



Press.

You can also store the DTMF signals (digits) just like a phone number and send them during a call (p. 24).

Extending numbers

Using an external PC program such as Outlook[®], parts of a phone number can be replaced by a "?" and then transferred to the Addressbook (for PABXs for example).

To call:



Open the Addressbook and select (part of) the phone number.



Press.



Replace "?" with digits.



Dial phone number.

Synchronizing with Outlook[®]

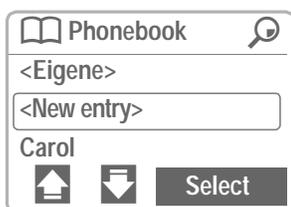
With the **Siemens Quick Sync software** (p. 86) you can synchronize your Addressbook with your Outlook[®] database.

SIM Phonebook

The entries in the Phonebook (**SIM card only**) are managed separately from the Addressbook. You can, however, exchange data between the Phonebook and the Addressbook.

New entry

Menu → Office → Phonebook



<New entry> select.



Select input fields.



Make the following entries:

Phone number (with prefix)

Name

Location (p. 31)

Record no. (p. 31)



Open menu.



Store entry.



The phone number can be dialed immediately

or



end input.

If entries are copied from the Phonebook to the Addressbook, other data (p. 27) can be subsequently added to them.

Phonebook-Menu

The following functions are available depending on the current situation:

Options Open menu.

Save	Store entry in the Phonebook.
View	Display the selected entry.
Edit entry	Change first names and/or name, phone number and storage location.
New entry	Enter first name and/or name, phone number and storage location.
Delete	Delete the entry selected.
Delete all	Delete all entries after confirmation.
Voicodialling	Use voice dialling to make an entry (p. 33).
Copy into 	Copy the entry selected to the Addressbook.
Copy all to 	Copy all Phonebook entries to the Addressbook.
Address-book	Switch to the Addressbook (p. 26) to be used as standard.
Send/print	(see p. 89)
Capacity	Display the capacity used and available.

SIM Phonebook

31

Location

When the Phonebook is open:

-  Select an entry.
-  Open menu and select **Edit entry**.
-  Go to the input field **Location**.

An entry can be moved from the Phonebook to other storage locations:

SIM (Standard)

Numbers that are stored in the Phonebook on the SIM card can also be used on another GSM phone.

Protected SIM

With a special SIM card, phone numbers can be stored in protected locations. PIN 2 is required for editing (p. 78).

Mobile (phone memory)

Phonebook entries are stored here, if

- voice recognition is assigned to them,
- the memory of the SIM card is full.

Record no.

A reference number that is automatically assigned for a new entry is assigned to each phone number in the Phonebook. You can also dial with this number.

Call

-  Enter phone number.
-  Press.
-  Press.

Edit

When the Phonebook is open:

-  Select an entry.
-  Open menu and select **Edit entry**.
-  Go to the input field **"Record"**.
-  Press repeatedly,

or press

-   to scroll through the available record numbers. When the required number is displayed:
-  Open menu.
- Save** Store entry.

SIM Phonebook

Store control code

You can store phone numbers **and** control codes (DTMF tones) in the Phonebook like a normal entry e.g. for operating an answering machine by remote control.



Enter phone number.



Press until a "+" symbol appears on the display (pause for connection setup).



Enter DTMF signals (digits).



If necessary enter other pauses of 3 seconds to ensure correct processing at the destination.



Press to copy to the Phonebook and if required assign a name to it.



Press.

You can also store the DTMF signals (digits) like a phone number and send them during a call (p. 24).

Service numbers

Numbers that have been provided by your service provider may be stored. With these numbers you can call local or nationwide information services or use the services of your service provider.

Protected phone numbers

Please note that the use of your Phonebook may be restricted (usual for some business applications), e.g. incomplete phone numbers may be indicated by a "?". These can be completed before dialing.

Voice control

33

Up to 20 phone numbers or functions can be selected or started by simply saying a name. Voice dialing entries are stored in the phone.

Record

Voicedialling for phone numbers

Menu → Office →
Voice control →
Voicedialling

A list with entries is displayed. In the list select...

New record then



enter name and phone number

or



retrieve from the Addressbook.

Save Confirm.

Start Start the recording.

A short signal sounds. Now say the name and **repeat** it when prompted. A beep confirms the recording and all entries are displayed.

Voice command for functions

Menu → Office →
Voice control →
Voice command

A list with 20 functions is displayed.



Select a function.

Record Press.

Yes Confirm the function selected.

Start Start the recording.

A short signal sounds. Now say the command corresponding to the function and **repeat** it when prompted.

Apply

Use the **lower** side key on the left to start voice control (in standby mode).

Now say the name or the function. The number is dialed or the function is carried out.



Voice control

Voice control menu

Menu → Office →
 Voice control →
 Voicedialling
 or
 Voice command



Highlight required entry.



Options Open menu.

View	Display name and phone number.
New record or New sample	Start a new recording. or Redo the (voice) recording of an entry.
Delete	Delete entry.
Edit	Change name and phone number (voice dialing only). Then redo recording if necessary.
Delete all	Delete all entries after confirmation.
Play	Play back the recording belonging to the entry.

Message (SMS)

35

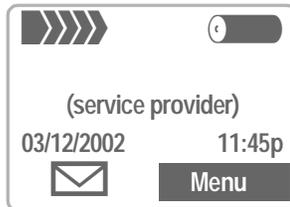
You may transmit and receive messages with your phone (up to 160 characters in length).

Depending on your service provider, e-mails and faxes can also be transmitted via SMS (change settings if necessary, page 41) and e-mails can also be received as SMS messages.

Read Messages

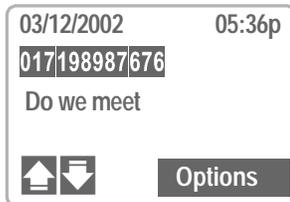


Display indicates a new message.



Press the key underneath the letter symbol to read the message.

Date/time
Phone number/sender
Message



Scroll through the message (depending on length of the text):



Line by line using the left soft key.



Page by page using the side keys.



The archive function is displayed at the end of a message. This moves the message to the archive (p. 36).

Reply menu



Inbox/outbox menu.



Open the reply menu.

Write message	Create a new reply text (p. 37).
Edit	Edit message received or assign a new text to it.
Answer is YES	Add YES to the message.
Answer is NO	Add NO to the message.
I'll be late Please call back	Add a standard text to the message.
Thank you	

When the message has been edited in the editor, it can be stored or sent with **Options**.



The memory is full when the message symbol flashes. **No more** SMS messages can be received. Delete or save messages (p. 36).

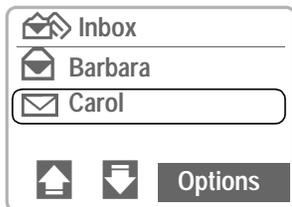
Numbers **highlighted** in the message can be dialed (Call key), stored in the Address-book (p. 26) or used as the address for a reply.

Message (SMS)

Inbox/Outbox

Menu → Messages →
Inbox/Outbox → SMS

The list of the saved messages is shown.



Options See right.

Symbol	Inbox	Outbox
	Read	Not sent
	Unread	Sent

Archive

Menu → Messages →
Inbox/Outbox →
Inbox-Archive/
Outbox-Archive

The list of the messages recorded on the device is shown.

Archive-Menu

Depending on the situation, different functions are available:

Options See right.

Inbox/outbox/archive-Menu

Depending on the situation, different functions are available

Options Open menu.

Reply	Open reply menu.
View	Display entry.
Edit	Open editor for changes.
Kopiere in Archiv	The archive function is displayed at the end of a message. This moves the message to the archive.
Delete	Delete the message selected.
Delete all	Delete all entries after confirmation.
Send	Dial number or select from Addressbook, then send.
Save no. to 	Copy the phone number selected to the Addressbook.
Mark as unread	Mark the message as unread.
Print via Ir-DA	(see p. 89)
Capacity	Display number of saved messages and the capacity available.
Status report 	(Outbox list only) Request delivery confirmation for messages sent.
GSM	

Message (SMS)

37

Use SMS sample

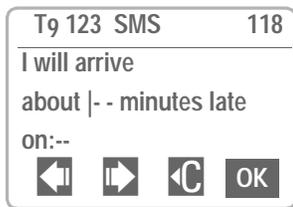
The following standard messages are stored in the phone. You only need to add the time and date.

Menu → Messages →
Use SMS sample

Selection:

Delay, Appointment, Congratulations

The cursor appears at the first input point, e.g.:



Complete the message.

Jump to the next input point.

OK Open the text menu.

Send Select.

Dial number or pick out from the Addressbook and transmit.

Compose message

Menu → Messages → New SMS



Text input using "T9" (p. 39) allows you to quickly create long SMS messages using just a few key entries.

C Press to delete letter for letter.

Either



Press.



Dial phone number or pick out from the Addressbook.

OK

Confirm.

Send

Select. The message is sent to the service center for transmission.

Save The text can be saved after transmission.

or

OK

Open the text menu.

Send via ... select (p. 89).

Meldungstyp, Gültigkeit or Service-Zentrum may be requested (p. 41).

Message (SMS)

Text Menu

OK Open the text menu.

Send	Dial the number of the address or select from the Addressbook, then send.
Save	Save the composed message in the outbox list.
T9 input (p. 39)	T9 preferred Activate intelligent text entry or deactivate it. T9 language Select language in which the message is to be composed.
Insert new line	Enter a line break.
Delete text	Delete the whole text.
Send via ...	(see p. 89)
Print via Ir-DA	(see p. 89)

Information on SMS

Transmission of an SMS is confirmed with **Message sent**.

The **Message sent** text only indicates that the message has been transmitted to the service center. The latter now tries to deliver the message within a certain period. If the phone was unable to send the message, a retry option is available. If this attempt also fails, contact your service provider.



Open the Addressbook, highlight the required entry and copy it into the text.

Message (SMS)

Text input with "T9"

"T9" deduces the correct word from the individual key entries by making comparisons with an extensive dictionary.

Select T9 language

Select the language in which you want to compose your message.

OK Open the text menu then select **T9 input** and **T9 language**.

Create a word using T9

Since the display changes as you proceed

it is best if you finish a word without looking at the display.

You simply press the keys where the relevant letters are located **once only**. For "hotel," for example, type:

4GHI **6**MNO **8**TUV **3**DEF **5**JKL :

T9 converts language specific special characters (such as ä, à) for you. Simply compose the message using the respective standard character, e.g. **A** instead of **Ä**.

If the word that T9 has chosen is not the one you want see "T9 word suggestions," page 40.

*** Δ** Press **once** for UPPER-CASE/lowercase, Press **twice** for letters/digits.

*** Δ** Press before the word for UPPER-CASE/lowercase or letters/digits.

1 0 0 Blank. Ends a word.

0 + Period. Ends a word when a blank follows. Acts as a wildcard character for an apostrophe/hyphen in the word: e.g. **Provider.s** = Provider's.



Go to the right. Ends a word.

→ Deactivate T9 temporarily and activate it again.

Special characters

Press the key repeatedly until the letter is displayed. To write special characters after numbers (e.g. 5 £), switch to the letter mode first: *** Δ**

1 0 0	Blank	1	€	£	\$	¥	¤		
0 +	.	,	?	!	0	+	-	:	¿
* Δ	*	/	()	<	=	>	%	~
# →	#	@	\	&	\$	Γ	Δ	Θ	Λ
	Ξ	Π	Σ	Φ	Ψ	Ω			

Activate, deactivate T9 (SMS)

OK Open the text menu, select **T9 input**, then select **T9 preferred** and confirm with **OK**.

Display in the uppermost line:

T9 T9 active.

abc/Abc/123Uppercase/lowercase,
letters/digits.

Message (SMS)

T9 word suggestions

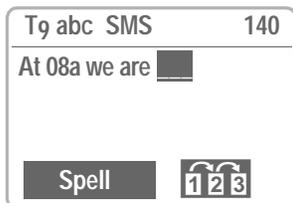
If several options are found in the dictionary for a key sequence (a word), the most frequent one is displayed first. If the word you want has not been recognized, the next suggestion from T9 may be correct.

The word must be **highlighted**. Then

 press. The displayed word is replaced with a different word. If this word is also incorrect,

 press again. Repeat until the correct word is displayed.

If the word you want is not in the dictionary, it may be written without T9 or added to the dictionary.



 Select.

The last suggestion is deleted and the word may now be entered without T9 support.

 Open menu.

 The word is automatically added to the dictionary.

Correct a word

Words that have been created **using** T9:



Move word by word to the left/right until the required word is highlighted.



Scroll through the T9 word suggestions again.



Deletes the letter to the left of the cursor **and** displays a new possible word!

Within a "T9 word," individual letters may not be edited without canceling T9 first. In most cases it is better to rewrite the complete word.

Words that have **not** been created using T9:



Move character by character to the left/right.



Deletes the letter to the left of the cursor.



Symbols are inserted at the cursor position.

Replace existing languages:

<http://www.my-siemens.com/s46>

T9®Text Input is licensed under one or more of the following: U.S. Pat. Nos.5,818,437, 5,953,541, 5,187,480, 5,945,928, and 6,011,554; Canadian Pat. No. 1,331,057; United Kingdom Pat. No. 2238414B; Hong Kong Standard Pat. No. HK0940329; Republic of Singapore Pat. No. 51383; Euro.Pat. No. 0 842 463 (96927260.8) DE/DK, FI, FR, IT, NL, PT,ES, SE, GB; and additional patents are pending worldwide.

Message (SMS)

41

Setup

The transmission characteristics of an SMS are defined in a profile (up to 5).

Two profiles for GSM and TDMA mode are preset.

Menu → Messages → Setup → SMS

The list of available profiles is displayed. You may now select one of these. To activate it:

Activate Press.

Setup menu

Options Open menu.

Activate	Use the profile selected.
Change settings	Change profile.
Rename	Rename the profile.

Service centre

Enter or change the phone numbers of the service centers as supplied by the service provider.

Recipient

Enter the standard recipient for this transmission profile.

Message type



Manual selection	The message type is requested for each message.
Standard text	Normal SMS message.
E-mail	Transmission via SMS.
Fax	Transmission via SMS. GSM

New You may need to obtain the required code number from your service provider.. **GSM**

Validity period

Select the period in which the service center tries to deliver the message:

Manual selection, 1 day, 1 hour, 12 hours, 1 week, Maximum*, New

*Maximum period that the service provider permits.

Status report

GSM

You receive confirmation of the successful or unsuccessful delivery of a sent message. This service may be subject to a charge.

Direct reply

GSM

The reply to your message is handled via your service center when this function is activated (for information please contact your service provider).

SMS via GPRS

GSM

Menu → Messages → Setup → SMS via GPRS

When this function is activated, SMS messages are automatically sent via GPRS.

Requirement: GPRS must have been activated, see page 83.

Bitmap viewer

A graphic can be sent to your phone via infrared or SMS or it can be downloaded via WAP (GSM).

Receive graphic

A received graphic is indicated by a symbol above the left soft key. By pressing this key, the Bitmap viewer is started and the graphic is displayed.

Store graphic

The graphic replaces the icon of your home network's service provider.

Load graphic

Menu → Surf & fun → Bitmap viewer

Bitmap viewer Open.

Options The menu is opened.

Load bitmap Select.

Bitmap viewer-Menu

Options Open menu.

Save as... Store current graphic in one of the storage locations or in the Flex. memory.

Load Load graphic from the storage location or Flex. Memory.

Discard The current graphic is discarded.

Delete Delete the graphic.

Send via ... (see p. 89)

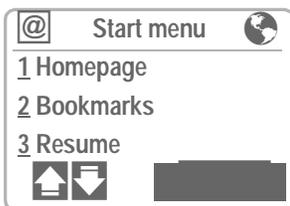
Ringertones, operator bitmaps, screen-savers and other services for your Siemens Mobile Phone can be found at:
<http://www.my-siemens.com/city>

From the Internet, get the latest WAP information that is specifically adapted to the display options of your phone. Internet access may require the registration with the service provider.

Internet access

Menu → Surf & fun → Internet

You can select the Internet access profile (see **Start with...** page 44). The start menu appears, e.g.:



Select the required function



Confirm.

You can now surf the Internet...



Hold **down** to end the connection.

Offline Online no network

The current display is in the upper right corner.

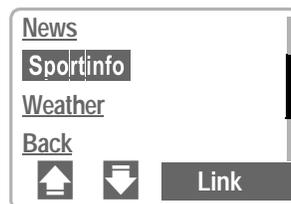
Scroll page by page using the side keys.

Start menu

Homepage	The connection to the Internet provider's portal is established (may be set/preset by the service provider).
Bookmarks	List of up to 10 URLs for fast access stored in the phone (not supported by all service providers). Select New entry to enter a new URL. Use OK to complete, edit and delete entries.
Resume	Call up the visited pages that are still in the memory.
Profiles	Set up to 5 access profiles (p. 45). Select New entry to enter a new profile
Exit browser	End browser and connection.

Example: Home

The soft keys may be assigned functions that are controlled online from the homepage of your service provider such as "links" or "menus".



The contents of the option menus are also variable.

Browser menu

Menu access is only made when a WAP page is displayed (online or offline):



Press to start the browser menu.

Startseite	The first WAP Internet page that is displayed after connection is established (may have been set/preset by the service provider).
Bookmarks 	Display up to 10 URLs for fast access stored in your phone (not supported by all service providers). Select New entry to enter a new URL. Use OK to complete, edit and delete entries.
Resume	Call up the visited pages that are still in the memory.
Go to URL	Enter an URL for directly accessing an Internet address (URL = Uniform Resource Locator).
Show URL	Show the URL of the current page.
Reload	The current page is restarted.
Disconnect	End connection.
More ...	See below.
Exit browser	End browser and connection.

More ...

Profile	Set up to 5 access profiles (p. 45).
Reset	Delete the pages last visited (cache).
Channels	Access to services offered by your service provider.
Incoming	Incoming messages, for example, are stored here (depending on provider).
Outbox	For example, e-mails are stored here to be sent later (depends on the service provider).
Charge info	Display call duration and transmission speed.
Security	For secure data transmission some information is encrypted. All browser data relevant for security can be selected in this menu. Further information on security is found at: http://www.my-siemens.com/s46
Font size	Switch between small and standard font size.
Start with...	Select the display for Internet access: Start menu Browser-Menü Startseite Letzte Seite Favourites
About Openwave	Display the browser version.

Setup

Preparation of the phone for Internet access depends on the service provider currently used:

- If the settings have already been made by your service provider you may begin immediately.
- If access profiles have been assigned by your service provider select a profile and activate it (p. 45).
- The access profile must be set and activated manually (p. 45).

If necessary, check with your service provider for details.

Profiles

You can set and change up to 5 access profiles (may be barred by the service provider). The entries and functions may vary depending on your service provider. You can change a profile each time before you access the Internet (p. 46).

Profile settings

Menu → Surf & fun → Internet → Profile



Select the profile to be set.

Options Open menu.

Edit The setup menu is displayed.



Select the menu items one by one and make your entries.

You may get further information on the entries from your service provider.

Profile name:	Name the profile or rename a default name.
WAP parameters	<p>IP address: Enter the IP address.</p> <p>Port: Enter port number.</p> <p>Homepage: Enter homepage (p. 45), if not set by the service provider.</p> <p>Linger time: Enter time in seconds when a connection should be terminated if no input or no data transfer takes place.</p>
CSD and GPRS data	see page 83.

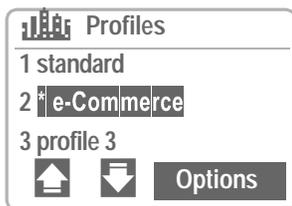
OK Open menu.

Save The settings are stored and the profile list is shown.

Special characters (as in the SMS text editor)

- Press 3 x for /
- Press 3 x for @
- Press for . (full stop)
- Press repeatedly for :
- Press repeatedly for ~

Activate profile



Activate

Activate a profile to establish the Internet connection.

Menu → Surf & fun →
Internet → Profile



Select the required profile.

Options Open menu.

Activate Press to activate. The connection is established.

or

Edit Edit the profile selected.

When the function is ended, **Startseite**, **Bookmarks** or **Letzte Seite** are available to establish the connection.

Your Internet browser is licensed by:



Surf also with GPRS (p. 83).

Operating instructions

Changing the home page

The address of the home page is set in the (access) profile. You can change it in standby mode (if permitted by the service provider!):

Menu → Surf & fun →
Internet → Profile

Select the profile, e.g.:

e-Commerce Select.

Options Open menu.

Edit Press.

WAP parameters Select.

Edit Press.

Startseite Select.

 Enter new address.

Options Open menu.

Save Press.

Enter the Internet address (URL)

Menu access is made as soon as WAP pages are displayed (online or offline).



Open the browser menu.

Go to URL



Select and confirm.
Enter URL and confirm.
The connection is established.

Bookmarks



Depending on the service provider, you can store a list of your favorites with their Internet addresses (URL) in the phone (offline and online):

Store



Open the browser menu.

Bookmarks Select.

<New entry> Select and confirm.



Enter the favorite and its URL and confirm.

OK

Open menu.

Save Store bookmark.

To use a favorite

Proceed as with "Store": in the list, select the stored bookmark and confirm. The connection is established.

Voice message/Mailbox

Most service providers offer you an external answering service. In this mailbox, a caller may leave a voice message, if

- your phone is switched off or not ready to retrieve,
- you do not want to answer,
- you are making a phone call (and when **Call waiting** is not active, page 22).

If the voice mail service is not part of your service provider's user package, you will need to register and the settings must be made manually. The procedure described below may vary slightly depending on the service provider.

Setup

Your service provider supplies you with two phone numbers:

Mailbox number

You call this phone number to listen to the voice mails left for you. To set it up:

Menu → Messages →
Voice message

Select a phone number from the Addressbook or dial/change it and confirm with **Save**.

Forwarding number

Calls are diverted to this phone number. To set it up:

Menu → Divert → e.g.
Unanswered → Set

Dial the number of the mailbox.

OK Registration at the network. Confirmation is made after a few seconds.

Further information on call divert is found on page 53.

Listen to

A new voice mail can be displayed as follows:



Icon including beep.

or



a text message announces a new voice mail

or

you receive a call with an automatic announcement.

Call your mailbox and play the message(s) back.



Hold down (if necessary dial the mailbox number of the service center).

Outside your home network, a different mailbox number may need to be dialed and a password may need to be entered to access your mailbox.

Cell broadcast

Some service providers offer information services (info channels) such as area codes, stock markets etc. The information available depends on the service provider. If reception is activated, you receive messages on the active topics in your "Topic list".

Menu → Messages → Cell broadcast

Broadcast

You can activate and deactivate the CB service. If the CB service is activated, the operating time of the phone will be reduced.

Read new CB

All unread CB messages are displayed.

-   Use the side keys to scroll.
The message covers the whole display.

Topic list

You can add an unrestricted number of topics to this personal list from the topic index ("Topic retrieval", page 50). You can preset at least 10 entries with their channel number (ID) and, if necessary, with their name. Five topics can be active at one time.

New topic

New topic Select.

- If no topic index is available (see "Topic retrieval", page 50), enter a topic with its channel number and confirm with **OK**.
- If the topic index has already been transmitted, select a topic and confirm with **OK**.

Selection from a list

Options Open list menu.

If a topic is selected in the list, you can look at it, activate it, deactivate it, edit it or delete it.

Auto display

CB messages are displayed in standby mode, longer messages are automatically scrolled.

The automatic display can be set for all messages or only new messages or be deactivated entirely.

Switches to "full page view" automatically:

 then press **CB lesen**.

Topic index

The list of the topics currently provided by your service provider is displayed for you to choose from.

If none are displayed, the channel numbers (ID) may be entered manually ("Topic list", page 49). Please contact your service provider for details.

CB languages

You may define whether you want to receive Cell Broadcast messages only in a specific language or in all languages.

Displays



Topic activated.



Topic deactivated.



New messages received on the topic.



Messages on the topic already read.

Highlighted phone numbers can be:



dialed.

Options

stored in the Addressbook.

Additional beep, page 73.

SIM services

GSM 

Your service provider can offer special applications such as homebanking, stock market etc. via the SIM card.

If you are registered for one of these services, the service name will appear at the top of the main menu or directly above the left soft key.



Icon of SIM services (example).

If there is more than one application, these are displayed in the "SIM services" menu.

Menu → SIM serv

With the SIM services menu, your phone is future-proof and will support additions to your service provider's user package. For further information, contact your service provider.

Records

51

Your phone stores the phone numbers of calls for convenient redialing.

Menu → **Records**



Select required call list and select the number there.



Dial number.

The following call lists are available:

Missed calls



The phone numbers of calls that you have received but not answered can be recorded for call-back purposes.

Requirement:

The networks used support the "Caller Identity" feature.

Calls received



All accepted calls are listed.

Requirement:

The networks used support the "Caller Identity" feature.

Calls dialled

Access the last phone numbers you dialed.



Fast access in standby mode.

Erase records

The contents of all call lists are deleted.

Records-Menu

Options Open list menu.

View	Show entry with call time and date.
Correct no.	Change phone number.
Copy into 	Copy selected entry to the Addressbook.
Delete all	Delete all entries of the current call list after confirmation.

Time/charge

You can display the charge details and the duration of calls as you speak as well as setting a unit limit for outgoing calls.

Display

Menu → **Records** → **Time/charge**

After you have made the charge detail settings, you can display the call duration/charge details for the following call types or you can display the credit balance.

Last call
All calls
Remain. units

or

when total amount is deactivated:

Last call
All outgoing
Incoming calls
Remain. units **GSM**

Select a call type.

Select Display the data.

When displayed, you may do the following:

Delete Clear display.

OK End display.

Charge settings

GSM

Menu → **Records** →
Charge settings

Currency

Enter the currency in which the charge details are to be shown.

Charge/unit

(PIN 2 needed)



Enter the charges per unit/period.

Account limit

(PIN 2 needed)



Special SIM cards allow you or the service provider to define a credit/period after which the phone is blocked for outgoing calls.

Options Open menu.

Edit Enter the number of units and confirm with **OK**.

The credit can be confirmed or the counter can be reset. The display of Prepaid cards may vary depending on service provider.

All calls



Toggle between the displays.

Incoming calls



If your network supports the charge detail display, the current units are displayed.

If you have set charge details per unit, the costs incurred are displayed.

Special registration may be necessary for this service.

Auto display

Call duration/charges are automatically displayed for each call.

Divert

53

You can set the conditions for which calls are forwarded to your mailbox or other numbers.

Menu → Divert

You can set divert as follows:

In GSM mode, you can choose from several conditions for forwarding, in TDMA mode, there is only **one** condition available.

A condition for divert is e.g.: **Unanswered**

Menu → Divert



Unanswered

Select.

Select

Press.

Set

Select.



Enter the phone number to which the caller will be diverted (if not done already)

or



Select this number from the Addressbook or via **Mailbox**.

OK

Confirmation. After a short pause, the setting is confirmed by the network.

Unanswered

This setting covers the most important conditions (see also below):

Not reachable, No reply, Busy

All calls

All calls are diverted.



Symbol in the top line of the display in standby mode.

Specific divert

Not reachable

Divert if the phone is switched off or out of range.

No reply

A call is only diverted after a delay (depends on the network). The period can be set by the user to a maximum of 30 seconds in intervals of 5 seconds.

Busy

Divert if a call is in progress.

Exception: If **Call waiting** is activated (p. 82), you will hear the call waiting tone during a call (p. 22).

Receiving fax

GSM

Fax calls are diverted to a number with a fax connection.

Receiving data

GSM

Data calls are diverted to a phone number with a PC connection.

Divert

Status check

GSM

You can check the current divert status for all conditions.

After a short pause, the current situation is transmitted by the network and displayed.



Condition set.



Not set.



Display, if status is unknown (on a new SIM card for example).

Clear all

GSM

All set divers are cleared.

To check or delete a certain condition:

First select the condition.

Select

Press.

Check status

or

Delete

select.

Note that the divert is stored in the network and not in the phone (when the SIM card is changed for example).

Reactivate divert

The last divert has been stored. Proceed as with **Set Divert**. The stored phone number is displayed and is confirmed.

Change the phone number

Proceed as with **Set Divert**. When the stored number is displayed:

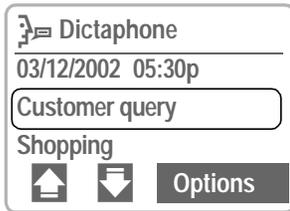
Delete

Delete the phone number.

Enter new number and confirm.

Dictaphone

With voice recording you can



- use your phone as a Dictaphone when on the move.
- record a memo as a reminder or as a reminder for others.
- add a voice memo to an alarm in the Calendar (p. 58).
- record a call: this is useful for remembering numbers or addresses.

The use of this feature may be subject to restrictions under criminal law or other legal provisions.

Please inform the other party to the conversation in advance if you intend to record the call and keep such recordings confidential. You may only use this feature if the other party to the conversation agrees.

Using the side keys

We recommend using the keys on the side of the phone to control the voice functions.



New record

Hold down the dictation key for the duration of the recording. After a short beep, the recording starts.

For a **recording pause**, you can release the dictation key for a maximum of 10 seconds. If you press the key once more, recording is resumed, otherwise it is stopped.

Exit browser/Save

The record is stored if you release the dictation key for more than 10 seconds. It is stored with the current time and date as its name. A different name can be assigned to it afterwards.

Play

Press the dictation key **briefly**.

Dictaphone

Using the soft keys

Menu → Office → Dictaphone

The list of the recordings is opened.

Options Open menu.

New record Select.

Record Start recording
(**Pause** recording pause).

Stop End recording.

Save Store and assign a name.

Play

Play Press.

Dictaphone-Menu

Options Open menu.

Playing	The recording is played.
New record	Start a new recording.
Delete	Delete the entry selected.
Delete all	Delete all entries after confirmation.
Rename	Replace the time stamp with a name.

Organiser

57

Calendar

Menu → Office → Organiser → Calendar

The Calendar offers a

- monthly view,
- weekly view,
- daily view.

Time and date must be set for the Calendar to work properly (p. 84).

Side keys

Back

Forw.



Scroll between the weeks or months depending on the current view.

Monthly view

Th	Apr 2002					W 16
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					



Scroll between the weeks.



Display the weekly view.



Display the daily view (agenda).

Weekly view

Th	Apr 2002					W 16
M	T	W	T	F	S	S
15	16	17	18	19	20	21
8						
12						
16						



Scroll by the hour.



Display of the monthly view.



Daily view (agenda).



Schedule. Time overlaps are highlighted.

Each day is divided into six blocks of four hours (morning + afternoon).

Agenda



Press.

The agenda displays the appointments of the current day in chronological order.

Tasks that are still open are listed at the top (p. 59).

When an appointment with alarm is reached, you will hear a beep.

Synchronizing with Outlook®

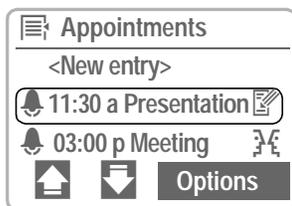
With the Siemens Quick Sync software, you can synchronize your organizer with your Outlook® Calendar (p. 86).

Organiser

Appointments

Menu → Office → Organiser → Appointments

All appointments/tasks of the day are displayed in chronological order.



New appointment

<New entry> Select.



Make the entries field by field:

Category: Appointments or select Tasks.

Type:



Memo. A short text may be added.



Call. Enter phone number. Shown with alarm.



Meeting



Birthday



Speech memo

Description:

Display in the agenda.

Alarm:

Activate, deactivate.

Date:/End date:

Start date, end date if necessary.

Reoccurrence:

Select periods for repeating the appointment.

Start time:/End time:

Start time, end time if necessary.



Store the appointment.

Appointments menu



Open menu.

View	Show appointment.
Activate/Deactivate	Activate/deactivate appointment.
Edit	Open the entry for changes.
New entry	See left.
Delete	Delete entry selected.
Delete all	Delete all entries after confirmation.
Edit	Open the entry for changes.
Send via ...	(see p. 89)
Print via Ir-DA	(see p. 89)
Week beg. Mo	Set when the week is to start, Monday or Sunday.
Capacity	Display the capacity used and available.

Organiser

59

A total of 50 appointments can be entered. An alarm sounds even when the phone is switched off. To deactivate it, press any key. Deactivate all alarms (p. 68). **Ringer setting** (p. 73), **Clock** (p. 84).



Display when alarm is active.

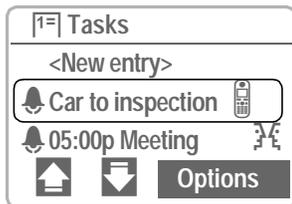
Pause

Delays the alarm by 5 minutes.

Tasks

Menu → Office → Organiser → Tasks

A task is displayed like an appointment in the agenda of the day selected. However unlike the appointment it does not need to have a time and date. When this is the case, the task appears at the top of the list **every** day, until it is marked done.



New task

<New entry> Select.

Category: Select **Tasks** or **Appointments**.



Select task type (see **Appointments**, page 58)



Describe the task briefly.



If necessary, enter date and time.

OK

Store the task.



Display when a task is done.

Task menu

Options Open menu.

View	Display entry.
Done	Mark task as done.
Edit	Display the entry for changes.
New entry	Enter a new task.
Delete	Delete an entry from the appointments list.
Delete all	Delete all entries after confirmation.
Send via ...	(see p. 89)
Print via Ir-DA	(see p. 89)
Week beg. Mo	Week starts on Monday.
Capacity	Display the capacity used and available.

Organiser

Alarm clock

Menu → Office → Organiser →
Alarm clock

Use this function to set **a single** time for the alarm call. The alarm sounds even when the phone is switched off.

On/off Switching on and switching off the alarm.

Edit Display the selection:
Time and days.

Time Set the time for the
alarm call (hh:mm:ss).

Tags Set the days for the
alarm call with **Edit**.

Missed alarms

Menu → Office →
Organiser →
Missed alarms

Appointments with alarm that you have missed are listed and can be displayed.

Missed alarms-Menu

Options Open menu.

You can send an alarm missed, print it, delete it or delete all alarms missed.

Organiser

61

Notes

Menu → Office → Organiser → Notes

T9 support (p. 39) makes writing memos, e.g. shopping lists, easier for you. Protect confidential data with the phone code (p. 78).

New entry

<New entry> Select.



Enter the text.

OK

Open menu.

Save Store entry.

Editor menu

OK

Open menu.

Save	Store entry.
T9 input (p. 39)	T9 preferred Activate intelligent text entry or deactivate it. T9 language: Select language in which the message is to be composed.
Line feed	Enter a line break.
Delete text	Delete a memo text.
Send	Transmit via SMS.

Read entry

Notes

<New entry>

Shopping list

Office

Options



Options

Select an entry.

Open menu.

View

Select.

Notes menu

Options

Open menu.

View	Display entry.
Edit	Display the entry for changes.
New entry	Enter a new memo.
Delete	Delete an entry from the appointments list.
Delete all	Delete all entries after confirmation.
Confidential	Protect entry with phone code (p. 78).
Send	Transmit via SMS.
Capacity	Display the capacity used and available.

Businesscard

You may create your own business card and transmit it to another GSM Phone (with IrDA capability) or a suitable PC/printer using infrared technology.

Menu → Office → Businesscard

If a business card has not been created, you are asked for input.



Go from field to field and make your entries.



The phone numbers can also be copied from the Addressbook.

Last name:	Tel./mobile:
First name:	Fax:
Company:	City:/state:
E-mail:	Post code:
Phone:	Street:
Tel./office:	Country:
URL:/SMS:	

OK Save entry.

The content of the business card corresponds to international standards (vCard). When you are sending a business card as an SMS, note that a maximum of 160 characters can be transmitted. If the card contains more than 160 characters, the additional characters will not be transmitted.

Businesscard-Menu

Options Open menu.

Send via ...	(see p. 89)
Print via Ir-DA	(see p. 89)
Edit	Rename the profiles for changes.

Calculator

63

Menu → Office → Calculator



Enter number (up to 8 digits).



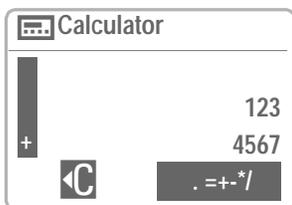
Select calculator function (repeatedly press the right soft key).



Repeat procedure with other numbers if necessary.



The result is displayed



Calculator functions

. = + * / press repeatedly for:

- Decimal point.
- = Result.
- + Addition.
- Subtraction.
- * Multiplication.
- / Division.

Special functions

Press *** Δ** or **# ←** repeatedly for:

- ± Toggle between "+" and "-".
- % Convert to percentage.
-  Save the number displayed.
-  Retrieve the number saved.
- e Exponent (maximum of two digits).
- 0 +** Add (hold down).

Currency conv.

Menu → Office → Currency conv.

You may store up to three different currencies.

Enter exchange rate

To convert, enter at least two currencies. When no currency has been entered yet, the input procedure is started immediately.

OK Press.

 Enter the symbols for your own and for the foreign currency.

OK Confirm.

Then...

 Enter exchange rate.

OK Confirm.

(\$ ¥) exchange rate for

DM

=

\$






Soft keys:

 Set decimal point.

MR Retrieve a number that has been saved in the calculator.

 Deletes the symbol in front of the cursor.

OK Save exchange rate.

Convert

Any combination of calculations may be made between the entered currencies.



Select a combination of currencies.

Options

Open menu.

Start

Confirm the two currencies.



Enter amount (up to 12 digits).



The result is displayed.

Currency conv.-Menu

OK Open menu.

Enter amount	Start application.
New entry	Enter two new currencies.
Edit	Open input procedure with the two currencies selected.
Delete	Delete the two currencies.

Clock

65

Menu → Office → Clock

Time zones

Set the time zone for your area.



Select the required time zone from the list.

Options

Open menu.

Set Set the time zone.

Time zone menu

Options

Open menu.

View	Display the time zone selected with name and date.
Set	Set the time zone.
Rename	Assign a new name to the time zone.
Auto timezone 	The time zone is switched to local time automatically by the network.
Sommerzeit:	Activate/deactivate daylight saving.

Time/date

Menu → Setup → Time/date

The clock must be set correctly once at start-up.

Edit Press.



First date, then time.

Format date

Set the date format with 24h or 12h clock:

DD.MM.YYYY a/p

Auto display

The time display can be switched on and off.

Auto phone off

The phone switches off each day at the set time.

Activate:

Clock Press.



Enter time.

OK

Confirm.

Deactivate:

Manuell Press.

OK

Confirm.

If the battery is removed for more than about 30 seconds, the clock must be reset.

Stopwatch/Countdown

Stopwatch

Menu → Surf & fun → Stopwatch

Display the time down to one thousandth of a second. Two intermediate times can be clocked and stored.



Reset Reset to zero.

Start/stop.

*** A** Intermediate time.

Control using the side keys:



Stopwatch-Menu

Options Open menu.

Save	Record the time(s) taken and assign a symbol to them.
Rename	Rename the entry selected.
Delete	Select the entry to be deleted.
List	Display the stored entries. View: Display of the stored times and intermediate times.
Delete all	Delete the Stopwatch list.

Countdown

Menu → Surf & fun → Countdown

A set period elapses. The last 3 seconds are indicated by a beep. At the end, a special beep sounds.

Edit / Set

Change period or enter a new one.

Start Start counter.

Stop Interrupt counter.

Reset Reset counter to start time.

Games

67

Menu → Surf & fun → Games

Select a game in the list and have fun!

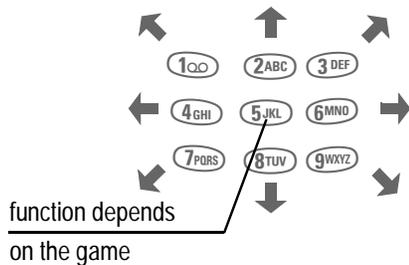
Game instructions

You will find special instructions for each game in the option menu.

Options Provides tips on how to play the game, shows the saved scores and allows you to set the difficulty level.

Start Start game.

Key control



Profiles

If a profile is used, several settings are made with **one** function.

- Five profiles are standard with default settings. However, they can be changed:
Normal envi., Quiet environ., Noisy environ., Headset
- You may set two personal profiles individually (<No Title>).
- The special profile **Ohne Alarm** is fixed and cannot be changed (p. 69).

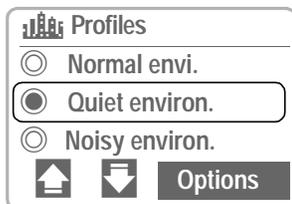
If the phone is used by several people, they can each activate their own settings by selecting their personal profiles.

Activate

Menu → Profiles



Select default profile, personal profile.



Options Open menu

Activate Activate the profile.

- Indicates the active profile.

Setup

Edit a default profile or create a new personal profile:



Select profile.

Options

Open menu.

Edit

Select. Several functions are found in the profile menu.

Profiles-Menu

Options

Open menu.

Activate	Activate the profile selected.
Edit	The following functions can each be set individually for a profile: <ul style="list-style-type: none"> • Ringer setting p. 73 • Volume p. 73 • Melodies p. 73 • Silent alert p. 73 • Filter p. 73 • Information tones p. 73 • Key tones p. 73 • Big letters p. 76 • Illumination p. 76 When you have finished setting a function, you return to the profile menu, where you can change other settings.
Rename	Rename the selected profile.
Copy from	Copy settings from another profile.

Profiles

69

Headset

If an original Siemens Headset is used, the profile is activated automatically as soon as the phone is connected to the headset (see also p. 85).

Airplane mode

All alarms are deactivated.
It is **not possible to modify this profile**

- The phone must be switched off when you select a profile.
- In this status, alarms are **not** indicated by the ringer or trembler alarm.

Activate

Menu → Profiles



Airplane mode select.

Options

Open menu

Activate Activate the profile.

Profile selection must be confirmed.



Then switch off the phone, otherwise the phone switches itself off automatically after 30 seconds.

Normal operation

The next time you switch on the phone, the default profile will be activated.

Favourites

Menu → Favourites

Combine your own menu with frequently-used functions and phone numbers.

The list of the 10 entries available is preset. However, you can change it according to your wishes.

For fast access:



Press then...



..press. twice.

or use the speed dialing keys (p. 71).

Apply



Select the required entry.



Press.



If the selected entry is a phone number, you can also call with the Call key.

Change

You can replace each preset entry (1-10) with another entry from the list of your favorites.



Select the required entry.



Press.



Press.



Select the new entry in the selection list.



Press.

If you have selected a phone number as a new entry, the Addressbook opens for the selection.

Reset

After confirmation and entering the phone code, the default entries are reset.

Fast access key

71

The left soft key and the keys 2 to 9 (speed dialing numbers) can each be assigned an important phone number or a function. The phone number can then be dialed or the function can be started at the touch of a button.

A function may already have been programmed on this soft key by your service provider (e.g. access to "SIM-Services"). This key assignment may be unmodifiable.

The soft key may sometimes be replaced with "✉/☎" to access a new message.

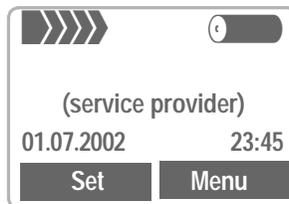
Key assignments available:

- Internet (GSM) p. 43
- Addressbook p. 26
- Phone number p. 72
- Calendar p. 57
- Alarm clock p. 62
- Notes p. 61
- Calculator p. 63
- Illumination p. 76
- Hide ID p. 82
- GPRS on/off (GSM) ☎! p. 83
- GPRS info (GSM) p. 83
- IrDA p. 84
- Games p. 67
- Missed calls p. 51
- Calls received p. 51
- Inbox p. 36
- Outbox p. 36
- Pers.Favourites p. 70

Left soft key

The **left** soft key can be used for fast access.

Edit



Set Press (if not preset differently).

Edit Scroll to the application in the list.

- Assign the new application (e.g. **Games**) to the soft key.
- Special case **Phone number**. Pick out a name from the Addressbook (e.g. "Carol") to assign the soft key.

Select Confirm setting.

Apply

The setting "Carol" is used here only as an example.

Carol Hold **down**.

Fast access key

Speed dialing keys

Digit keys 2 to 9 can be used as speed dialing numbers for fast access. For available key assignment see page 71.

The following key is reserved:

 = mailbox number (p. 48)

Edit

In standby mode:



Press digit key (2-9). If the key is not assigned:



Press.

or



Press **briefly** (if assigned with e.g. "Games").



Scroll to the application in the list.

Special case **Phone number**. Scroll to a name in the Addressbook for assignment to the key.



Confirm setting.

Special case **Internet** (GSM). Scroll to an URL in the bookmark list for assignment to the key.



Confirm setting.

Apply

Select a stored phone number or start a stored application (e.g. Games).

In standby mode:



Press.

The assignment of digit key 2 is displayed instead of the left soft key, e.g.:



hold **down**

or simply



hold **down**

Quick menu selection

All menu functions are numbered internally. The relevant sequence of numbers is shown in the upper right corner of the display.

Enter the appropriate sequence of numbers to select a function directly.

For example, to compose a new SMS:



Press.



for Messages



for New SMS

Audio

73

You can set the tones that sound in specific situations to suit your particular taste.

Menu → **Audio** →
select a function:

Ringer setting

Activate, deactivate the ringer or reduce it to a short beep (beep).

-  Beep is activated.
-  Ringer is deactivated.

Activate, deactivate in standby mode:

 Hold down.

Volume

-  Select the range:
 - All calls
 -  Calls
 - VIP calls
 - Event
 - Messages
 - Cell broadcast services
 - GSM**

-  Set volume.
- OK** Confirm.

 Displays rising volume.

Silent alert

To avoid being disturbed by the ringer, you can activate the vibration alarm of the phone instead. The vibration alarm can also be active in addition to the ringer (e.g. in noisy environments). The vibration alarm is deactivated when the phone is connected to the Car Kit.

Filter



Only calls from numbers that are listed in the Addressbook are signaled audibly or by the vibration alarm. Other calls are merely displayed. If you do not accept these calls, they are diverted to your mailbox (if set, page 53).

-  Displayed when activated.

Information tones

Activate/deactivate all service tones and alarm tones or use **Extended** to activate/deactivate tones.

Key tones

You can set the type of the key tone:
Click or **Tone** or **Silent**

Audio

Menu → Audio →
select a function:

1 minute beep

During a call, you hear a beep after every minute as a reminder of the time elapsed.

Melodies

You can choose from 38 melodies and additionally use four melodies that you have composed/stored yourself.



First select the type:

All calls
 Calls
 VIP calls
 Event
 Messages
 Cell broadcast **GSM**



Then select the melody.



Confirm.

Melody manager

You can use this function to manage your melodies.

Menu → Surf & fun →
Melody manager

Load

Load melody from **Individual 1** to **Individual 4** or from the **Explorer**.

Melody manager Open.

Options Open menu.

Load Select and assign storage location.

Save

Store loaded melody on **Individual 1** to **Individual 4** or on the **Explorer** (*.mid).

Play The melody can be played.

Receive melody

A melody can be sent to your phone via infrared or WAP (GSM).

When a melody has been received, an icon appears above the left soft key.

Press this key to start the melody manager.

Ringertones, operator bitmaps, screen-savers and other services for your Siemens Mobile Phone can be found at:
<http://www.my-siemens.com/city>

Audio

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Melody manager-Menu

Options Open menu.

Play	Play the current melody.
Save as...	Store melody on Individual 1 to Individual 4 or on the Explorer (*.mid).
Send via ...	(see p. 89)
Load	Load melody from Individual 1 to Individual 4 or from the Explorer.
Discard	The current melody is deleted from the melody manager.
Delete	Delete melody from Individual 1 to Individual 4.

Menu → **Audio** →
select a function:

Compose melody

You can also compose one-voice melodies yourself.



Keys 1 to 7 correspond to the notes C, D, E, F, G, A, H.



Go back and forward in the melody by one note.



Set note half a tone higher/lower.



Increase length of note/ pause length.



Reduce length of note/ pause length.



Use the left side keys to set a note one octave higher/lower.



Insert a pause.

Options

The menu offers further functions:

Play, Playback speed, Save, Insert note, Delete note, Delete, Load.

Setup

Device

Menu → Setup →
Device →
Select a function.

Sprache

Set the language of the display text. When "automatic" is set the language of your service provider is used. If a language that you do not understand happens to be set, the phone can be reset to the language of your service provider with the following input:

*#0000# 

Display

Own greeting

You can create a greeting that is displayed when you switch on the phone.

- Edit** Activate and deactivate.
-  Delete old message and create new message.
- OK** Confirm changes.

Screensaver

The screensaver shows a graphic on the display after a period of time which the user can set. It protects the phone against unauthorized use, like the key lock (p. 77). An incoming call or a long press on  and confirmation with **OK** end the function.

You have the following options:

- Activate, deactivate the function.
- Set style: Special graphic, analogue clock.
- Load graphic via **Bitmap viewer** (p. 42).
- Test screensaver.
- Set period after which the screensaver starts.
- Activate password query as security setting.

Illumination

The display illumination can be switched on and off (this affects the standby time).

Big letters

You can change the font size of the display.

Contrast

Sets the display contrast level.

Setup

Menu → Setup →
Device →
Select a function.

Keys

Any key to answer

You can use any key to accept incoming calls (except ).

Auto key lock

The key pad is automatically locked if one minute elapses since any key was last pressed. This prevents the phone from being used accidentally. However, you can still receive calls and make an emergency call.

The keypad can also be directly locked and unlocked.

 Hold **down**.

OK Confirm (only when the phone is being switched off).

Key tones

You can set the type of key tone:

Click or Tone or Silent

Status

Factory settings

The phone is reset to the default values (does not apply to SIM card and network settings).

Phone identity

The phone identity number (IMEI) is displayed. This information may be useful for customer service.

Fast search

When this function is activated, network reconnection is speeded up (standby time is reduced).

T9 input

T9 preferred

Activate intelligent text entry or deactivate it.

T9 language

Select language in which the message is to be composed.

Setup

Security

The phone and SIM card can be protected against misuse by several security codes (codes).

Keep these confidential numbers in a safe place where you can access them again if required.

PIN	Protects your SIM card (personal identification number).
PIN2	This is needed to set the charge detail display and to access additional functions on special SIM cards.
PUK	Key code. Used to unlock SIM cards after the wrong PIN has been entered.
Phone-code	Protects your phone. Must be entered at the first security setting (4 to 8 digits).

Menu → **Setup** → **Security** → then select a function:

Codes

PIN control

GSM

The PIN is usually requested each time the phone is switched on. You can deactivate this feature but you risk unauthorized use of the phone.

Some service providers do not permit this function.

Change PIN

GSM

You can change the PIN to any 4 to 8 digit number (i.e. a number you may find easier to remember).

 Enter **old** PIN.

 Press.

  Enter **new** PIN.

  Repeat **new** PIN.

Change PIN2

GSM

You can change PIN 2 to any 4 to 8 digit number (displayed only if PIN 2 is available).

Proceed as with **Change PIN**.

Change phonecode

You define and enter the phone code when you call up a phone code protected function for the first time. It is then valid for all functions.

You can change it to any 4 to 8 digit number. If you forget it, please call Siemens Service (p. 90).

Clear SIM card barring

If the PIN is entered incorrectly three times, the SIM card is locked. Follow instructions and enter the PUK (MASTER PIN) your service provider has given you together with the SIM card. If MASTER PIN or PIN is lost, please contact your service provider.

Setup

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Menu → Setup →
Security →
select a function:

This SIM only

GSM

(phone code protected)

Your phone cannot be operated with a **different** SIM card.

Babysitter

(phone code protected)

Calls can only be made to **one** phone number that is dialed by holding down the **right** soft key (detailed description on page 25).

Only

(PIN2 protected)

The dialing options are restricted to phone numbers in the Addressbook/Phonebook, new entries cannot be made. If only area codes are entered, the relevant phone numbers can be added to these manually before dialing.

Depending on whether the Phonebook is stored on the SIM card or in the phone, PIN 2 or phone code are requested before the entries can be changed.

Last 10 only

(phone code protected)

Calls are limited to the call list (p. 51) of "dialed numbers". This list can be filled with phone numbers specifically for this purpose:

Delete the call list and create "new entries" by dialing phone numbers and canceling before the connection is established.

Setup

Network

Depending on the technology (GSM or TDMA) used, the descriptions of individual functions may vary.

Menu → **Setup** → **Network** → the n select a function:

Konfiguration

Network info

The list of networks currently available is displayed.



Indicates forbidden service providers.

Choose network

Network search is restarted. This is useful if you are **not** in your home network or want to register in a **different** network. The network info list is rebuilt.

Auto network

Activate or deactivate, see also "Choose network" above.

When "Auto network" is activated, the next network is dialed in the order of your "preferred service providers." Otherwise, a different network can be selected manually from the list of available networks.

Preferred network

GSM

The service providers you prefer after your home service provider are displayed in this list (e.g. if there are several networks that differ in price).

When this function is activated, the list that your service provider proposes is displayed first. You can edit this as required:

List Display list of preferred networks.

- Create new entry:

<Leer> Select,

then scroll to an entry in the list of the service providers and confirm.

- Change/delete old entry:

Select an existing entry and delete it, or select an entry from the list of the service providers and confirm.

Menu → Setup → Network →
then select a function:

Mode of operation

The phone can be operated in TDMA networks as well as in GSM networks. You can set one of these operational modes as standard or switch between the two modes automatically.

When switching on the phone for the **first** time, automatic selection is active.

- **Automatic selection**

When automatic selection is active, the network last used is searched and the phone determines whether a SIM card is inserted.

Depending on the situation, the currently available network is displayed for the selection.

- **Only TDMA**

In TDMA mode the phone can also be used without a SIM card.

- **Only GSM**

GSM mode is **only** possible when a SIM card is inserted.

Barrings



Locking restricts the use of your SIM card (not supported by all service providers). You need a 4-digit password that your service provider supplies you. You may need to be registered separately for each lock.

Outgo. access

All outgoing calls except emergency number 112 are barred.

Outgoing international

Only national calls can be made.

Outgo internat. x home barred

International calls are not permitted. However you can make calls to your home country when abroad.

All incoming calls

The phone is barred for all incoming calls (forwarding all calls to the mailbox has a similar effect).

When roaming

You do not receive calls when you are outside your home network. This means that no charges are incurred for incoming calls.

Status check

The following information can be displayed after a status check:

- Lock set.
- Lock not set.
- ? Status unknown (e.g. new SIM card).

Clear all

All locks are cleared.

Setup

User group



Menu → Setup →
User group →
select a function:

If offered by the service provider, this service enables groups to be formed. These have access for example to internal (company) information or special tariffs apply to them. Check with your service provider for details.

User group

Activate or deactivate the function. "User group" must be deactivated for normal phone use (p. 78).

Select group

You may select or add groups other than the preferred groups (see below). The service provider supplies you with code numbers for the groups.

Outgo. access

In addition to network control for a user group, it is possible to choose whether outgoing calls outside the group are permitted. If the function is deactivated, only calls within the group are permitted.

Preferred group

If activated, only calls within this standard user group can be made (depending on the network configuration).

Call

Menu → Setup →
Call →
select a function:

Call waiting



If you are registered for this service, you can check whether it is set and you can activate or deactivate it (p. 22).

Hide ID



When you make a call, your number may be displayed on the recipient's display (depending on the service providers).

To suppress this display, you may activate the "Conceal ID" mode for the next call or for all subsequent calls. You may need to register separately with your service provider for these functions.

Datenaustausch

Menu → Setup →
Datenaustausch →
select a function:

GPRS



(**G**eneral **P**acket **R**adio **S**ervice)

GPRS is a new method for transmitting data in the mobile network faster. If you use GPRS, you can be connected to the Internet permanently if the network capacities suffice. Advantages of GPRS, e.g.:

- WAP information is transmitted faster.
- E-mails are sent and received without loss of time.
- You can chat without long delays.

This service is not yet supported by all service providers.

Ein-/ ausschalten

Activate or deactivate GPRS function for all relevant applications.

GPRS info

Display of information on the connectivity status.

Data services

Select **Browser** (p. 45). Select the required profile from the list.

GPRS settings or select **CSD settings**:

GPRS settings	<p>APN: Enter the address of your service provider.</p> <p>Login name: Enter login name.</p> <p>Password: Enter password (shown as a series of asterisks)</p>
CSD settings (Circuit Switch Data)	<p>Dial-up no.: Enter ISP number.</p> <p>Call type: Select ISDN or Analog.</p> <p>Login name: Enter login name.</p> <p>Password: Enter password (shown as a series of asterisks).</p>

Setup

Menu → Setup →
Datenaustausch →
select a function:

IrDA(infrared)

The infrared port integrated in the phone cannot be used unless the other device has a corresponding port. Align the infrared windows with each other (max distance 30 cm).

Edit Activate/deactivate IrDA.

Indicator on the display:



If switched on.



During transmission.

Fax/data mod.



See page 88.

Baud rate

You can use the baud rate to set the transmission rate in a cable connection between your PC and the phone:

115,2 Kbit/s

57,6 Kbit/s

38,4 Kbit/s

19,2 Kbit/s

To ensure optimum data flow when connecting your phone to a computer with a cable, we recommend you use only the original Siemens accessories:

Datatable Professional

Authentication



Encrypted WAP dial-up.

Time/date

Menu → Setup →
Time/date

The clock must be set correctly once at start-up.

Edit Press.



First date, then time.

Accessories

Menu → Setup →
Accessories →
select a function:

Headset

If an original Siemens headset is used, the profile is activated automatically as soon as the headset is plugged in.

User-definable settings:

Auto answer

(factory default: off)

Calls are automatically accepted after the 3rd ring. You should be wearing the headset.

When calls come in unperceived, other persons might listen in without your consent.

Switch between the phone and the Headset

Switch to Headset during a call (if the phone is connected to the Headset).



Activate and deactivate.

Automatic settings:

- Accept call with the Call key or PTT key (Push To Talk) when the key lock is activated.
- Activate voice dialing with the PTT key.

Explorer

To organize your files, you can use the Flex. Memory just like a PC file manager. The Flex. Memory assigns special folders to different data types:

Menu → Surf & fun → Explorer

A list of the folders and files is displayed.



Scroll up and down.



Go back from folder.

To open a highlighted file:

Open Press.

Bitmap Start Bitmap viewer (S. 76).	*.bmp
Melodies Start melody manager (p. 74).	*.mid
SMS SMS messages (Out), SMS messages (In). The messages are displayed in the editor.	*.smo *.smi
Speech memo Use the dictaphone to play (p. 55) back voice memos.	*.vmo
Businesscard Stored in vCard format.	*.vcf
Alarm stored in vCalendar format	*.vcs
Verschiedenes Other files.	*.*

Flex. Memory menu

Options Open menu

Depending on whether you have highlighted a **file** or a **folder**, you are offered **different** functions.

Open	Open folder.
Start	Start application according to the file format.
Mark/Unmark	Highlight files/remove highlighting.
Delete	Delete all highlighted files.
Delete all	Delete all entries. PIN must be entered.
New folder	Create a new folder and give it a name(the folder must be on the same level).
Rename	Rename a highlighted file.
Send via ...	(see p. 89)
Sort	Set sort criteria (alphabetical, type, time).
Attributes	Display information on the file or folder selected.
Drive info	Display the capacity used and available.

Siemens Quick Sync software

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Siemens Quick Sync software

With the PC program provided, addresses and appointments can be synchronized between our phone and Windows® Outlook® and Lotus Notes.

Software installation

Insert the CD ROM into the drive of your PC and select "**Siemens Quick Sync**". You will be guided through the installation process by dialogue boxes.

Operating instructions

The Siemens Quick Sync software offers detailed operating instructions and online help.

Connection

Phone and PC must be interconnected via infrared or cable.

To ensure optimum data flow when connecting your phone to a computer with a cable, we recommend you use only the original Siemens accessories:

Datatable Professional

Flexible memory

The phone memory is used flexibly by various applications and adapts itself to your personal user profile.

The applications available are:

Explorer
Addressbook
Dictaphone
SMS-Archive
Melodies
Pictures

Always delete data that is no longer needed.

Fax/data mode using a PC GSM

Menu → Setup →
Connectivity →
Fax/data mod.

With the phone connected to a PC, you can transmit and receive faxes and data. Appropriate software for data communication/fax communication must be available on your PC and there must be a connection (e.g. IrDA, page 84) to the phone.

Fax and data services must be enabled by the service provider. Different networks support different types of fax/data reception, contact your service provider for details.

Fax/data mod.

Your service provider must give you a number for telephoning and a fax/data number.

Sending

Start your PC communication program and enter the required destination phone number in the program.

Receive

The call is signaled by a special ring-er and the type (fax or data) is displayed.

Now start the communication program in your PC to receive the fax/data.

Speech/fax

Sending

Menu → Setup →
Connectivity →
Fax/data mode →
Send vce/fax

Set this function on the phone **before** transmission so that you can switch from voice mode to fax mode.

While the connection is being set up, the following soft key is available for two seconds:

Voice/fx Switch to **Send vce/fax** mode; you may now send a fax.

Receive

(**Only** if a special fax or data number is not available).

Start the required communication program in your PC and switch on the function at the phone **during** the call (the PC accepts the connection).

Menu → Setup →
Connectivity →
Fax/data mode →
Voice/fax rec

End transmission

End transmission in the PC software and/or press .

Send via .../Print via IrDA

Send via ...

The phone offers several options to transmit or receive messages and data via various transmission routes. The relevant option menus offer access to this function:

SMS

Addressbook entries, appointments, memos, etc. can be sent as an SMS to another suitable mobile phone.

Larger objects are split into several SMS messages, if necessary.

IrDA

The infrared port integrated in the phone cannot be used (see also p. 84) unless the other device has a corresponding port.

This device can be a mobile phone, PDA, PC or printer.

Print via IrDA

You can use your phone to send messages or data to a printer with an infrared port.

Siemens Service

Worldwide support by Siemens Partners is only one phone call away or in the Internet:
Internet: <http://www.my-siemens.com>

Abu Dhabi	Siemens Service Center	0 26 42 38 00	Libyen	Siemens	02 13 35 02 31
Ägypten	Siemens	0 23 33 41 11	Litauen	UAB Skaidula	2 39 77 79
Argentinien	Siemens	0 80 08 88 98 78	Luxemburg	Siemens	43 84 33 99
Australien	Siemens	18 00 62 24 14	Malaysia	Siemens	03 79 52 51 84
Bahrain	Siemens	40 42 34	Malta	Siemens	00 35 32 14 94 06 32
Bangladesch	Siemens	0 17 52 74 47	Marokko	Setel S.A.	22 66 92 32
Belgien	Siemens	0 78 15 22 21	Mauritius	Ireland Blyth	2 11 62 13
Brunei	incomm	02 43 08 01	Niederlande*	Siemens	0 90 03 33 31 00
Bulgarien	Omnitel	02 73 94 88	Norwegen*	Siemens	22 70 84 00
China	Siemens	0 21 50 31 81 49	Österreich*	Siemens	05 17 07 50 04
Dänemark*	Siemens	35 25 86 00	Oman	Siemens	79 10 12
Deutschland*, **	Siemens	0 18 05 33 32 26	Pakistan	Siemens	02 15 67 35 65
Dubai*	Siemens	0 43 55 99 88	Philippinen	Siemens	28 14 98 88
Elfenbeinküste	Siemens	80 00 03 33	Polen	Siemens	08 00 22 09 90
Estland	Siemens	6 30 47 35	Portugal*	Siemens	8 00 85 32 04
Finnland*	Siemens	09 22 94 37 00	Rusland	Siemens	09 57 37 29 51
Frankreich*	Siemens	01 56 38 42 00	Saudi Arabien	Siemens	0 26 51 50 94
Griechenland	Siemens	0 16 86 43 89	Schardscha	Siemens	0 65 33 66 42
Großbritannien*	Siemens	0 87 05 33 44 11	Schweden*	Siemens	0 87 50 99 11
Hong Kong	Siemens	22 58 36 36	Schweiz	Siemens	0 12 12 00 90
Indien	Siemens	01 16 83 97 55	Simbabwe	Siemens	04 36 94 24
Indonesien	Dian Graha Elektr.	02 14 61 50 81	Singapur	Siemens	8 45 48 18
Irland*	Siemens	18 50 77 72 77	Slowakei	Siemens	07 59 68 22 66
Island	Smith & Norland	5 11 30 00	Slowenien	Siemens	0 14 74 63 36
Italien	Siemens	02 66 76 44 00	Spanien	Siemens	9 02 11 50 61
Jordanien	Siemens	0 79 55 96 63	Rep. Südafrika	Siemens	08 60 10 11 57
Kambodscha	Siemens	12 80 05 00	Taiwan	Siemens	02 25 18 65 04
Kanada	Siemens	1 88 87 77 02 11	Thailand	Siemens	0 27 15 51 00
Katar	Siemens	00 97 44 69 67 00	Tschechien		
Kroatien	Siemens	0 16 10 53 81	Republik	Siemens	02 33 03 27 27
Kuwait	NGEECO	4 81 87 49	Türkei	Simko	0 21 65 71 89 89
Lettland	Siemens	7 50 11 14	Tunesien	Siemens	01 86 19 02
Libanon*	F.A. Kettaneh	01 44 30 43	Ungarn	Siemens	06 14 71 24 44
			USA	Siemens	1 877 687 1671
			Vietnam	Opticom	45 63 22 44

** DM 0,24/Min



You can buy original Siemens accessories at <http://www.my-siemens.com>; in countries marked with an asterisk *, you can also call the phone number shown.

Troubleshooting

If problems occur when using the phone, try to find a solution here first. If the problem persists, contact your service provider or the Siemens Service.

Problem	Possible causes	Possible corrective measures
Phone cannot be switched on.	On/Off key not pressed long enough.	Press On/Off key for at least two seconds.
	Dead battery.	Charge battery. Check charging indicator in the display.
	Battery contacts dirty.	Clean contacts.
Standbytime too short.	See also below under: "charging error"	
	Frequent use of the organizer and games.	Restrict use if necessary.
	Speed search active.	Deactivate speed search (p. 77).
	Display illumination on.	Switch off display illumination (p. 76).
Charging error (charge icon not displayed).	Unintentional keystroke (illumination!).	Activate key lock (p. 77).
	Battery totally discharged.	1) Plug in charger cable 2) Wait for approx. 5 - 10 minutes until the charge icon is displayed 3) Charge for 2 - 3 hours (use only the charger provided).
	Temperature out of range: -0 °C to +40 °C.	Make sure the ambient temperature is right, wait a while, then charge again.
	Contact problem.	Check power supply and connection to the phone. Check battery contacts and device interface, clean them if necessary, then insert battery again.
	No power supply.	Plug in to different socket or check voltage.
	Wrong charger.	Use only original SIEMENS accessories.
SIM error.	Battery faulty.	Replace battery.
	SIM card not correctly inserted.	Make sure that the SIM card is correctly inserted (p. 12).
	SIM card contacts dirty.	Clean the SIM card with a dry cloth.
	SIM card with wrong voltage.	Use 3 V SIM cards only.
	SIM card damaged (e.g. broken).	Inspect the damage. Return the SIM card to service provider.

Troubleshooting

Problem	Possible causes	Possible corrective measures
No connection to network.	Signal weak.	Move higher, to a window or open space.
	Outside range.	Check service provider coverage map.
	Fixed mode.	Switch mode or it to automatic (p. 81).
	SIM card not valid.	Reclaim at the service provider.
	New network not authorized.	Try manual selection or select a different network (p. 80).
	Network barring is set.	Check barrings (p. 81).
	Network overloaded.	Try again later.
Phone loses network.	Signal too weak.	Reconnection to an other service provider is automatic (p. 80). Switching the phone off and on again may speed this up.
Communication difficult in car with handsfree function.	Ambient noise level too high.	Use Car Kit (Car Solutions, p. 96).
Calls not possible.	Dialing error.	New network not authorized (p. 80).
	New SIM card inserted.	Check for new restrictions.
	Charge limit reached.	Reset limit with PIN 2 (p. 52).
	Credit used up.	Load credit.
Certain uses of the phone not possible.	Call restrictions are set.	Barrings may have been set by your service provider. Check barrings (p. 81).
	The phone number has more than 20 digits.	Check phone number.
Entries cannot be made to Adressbuch/Telefonbuch.	Adressbuch/Telefonbuch is full.	Delete Adressbuch/Telefonbuch entries(p. 28).
Voice mail does not work	Call divert to the mailbox not set.	Set call divert to the mailbox (p. 53).
SMS (text message)  flashes.	SMS memory full.	Delete messages (SMS) to make room (p. 36).
Function cannot be set.	Not supported by service provider or registration required.	Contact your service provider.
Charge counter does not work (GSM).	Charge pulse not transmitted.	Contact your service provider.

Troubleshooting

Problem	Possible causes	Possible corrective measures
Message cannot be sent.	Some service providers do not support this service.	Check with your service provider.
	Phone number of the service center is not set or wrong.	Set service center (p. 41).
	SIM card contract does not support this service.	Contact your service provider.
	Service center overloaded.	Repeat message.
	Addressee does not have a compatible phone.	Check.
PIN error.	Three wrong entries.	Enter the MASTER PIN (PUK) provided with the SIM according to the instructions. If MASTER PIN or PIN has been lost, contact your service provider.
Phone code error.	Three wrong entries.	Contact Siemens Service (p. 90).
Service provider code error.	No authorization for this service.	Contact your service provider.
Too few / too many menu items.	Functions may have been added or removed by your service provider via the SIM card.	Check with your service provider.
No fax possible.	Incorrect settings in the PC.	Check settings (p. 88).
	No authorization for this service.	Contact your service provider.
	Wrong infrared driver in the PC.	Install latest infrared driver.
	Mode set to "only TDMA."	Set "automatic" or "only GSM."
Damage		
Severe shock.	Remove battery and SIM and insert them again. Do not dismantle the phone.	

Reset all settings to the factory default: *#9999# 

Further information can be found on the Internet under:

<http://www.siemens.com/productservice>

Specifications

Declaration of conformity

Exposure to radio frequency signals

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.

In August 1996, The Federal Communications Commission (FCC) adopted RF exposure guidelines with safety levels for hand-held wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

American National Standards Institute (ANSI) C95.1 (1992)

National Council of Radiation Protection and Measurement (NCRP) Report 86 (1986)

International Commission of Non-ionizing Radiation Protection (ICNIRP) 1996

Ministry of Health (Canada) Safety Code 6

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI standard (C95.1).

The design of your phone complies

with the FCC guidelines (and those standards). For additional information concerning exposure to radio frequency signal, see the statement by the FDA at the end of this user guide.

Technical data

GSM 900 class:	4 (33 dBm)
GSM 1900 class:	1 (30 dBm)
TDMA 800 class IV:	(0.6 W ERP)
TDMA 1900 class IV:	(0.6 W ERP)
Weight:	123g/4.30Z
Dimensions:	118 x 46 x 21mm (94 cm ³)
Operating voltage:	3.8 Volts
Standby time:	
GSM:	Up to 260hr
TDMA:	Up to 150hr
Talk time:	
GSM:	Up to 6hr
TDMA:	Up to 150 minutes
SIM card:	3 Volt

Maintenance

Maintenance tips

- The SIM card should be treated with the same care as a credit card. Do not bend or scratch it or expose it to static electricity.
- Clean the card with a damp cloth or an anti-static wipe without chemical cleaning agents.
- Protect the phone from moisture and shocks. Do not expose your phone to direct sunlight.
- Remove the battery if you are not going to use the phone for extended periods of time (more than one month).

Phone ID

You will need the following details if you lose your phone or SIM card. Please enter here the number of the SIM card (on the card):

.....

15-digit serial number of the phone (under the battery):

.....

Customer Service number of the service provider:

.....

Lost phone

If you lose your phone or SIM card contact your service provider immediately to prevent misuse.

Accessories

Basics

Li-Ion Battery (850 mAh)

Travel Charger

Like a standard charger, but with automatic voltage selection: 90-270 V for international use.

Desk Top Charger

Enables simultaneous charging of the phone battery and a spare battery.

Headset PTT

Optimum freedom of movement with excellent call quality. Including PTT (Push To Talk) key to accept calls and to activate voice dialing.

Belt Clip

Features a belt clip and a clip for fastening your phone to clothes or bags.

Leather Case

Attractive protection from dirt and damage from outside.

Data/Applications

Data Cable

To connect the phone with the RS 232 port on the PC.

Car Solutions

Car Charger

Connection to dashboard (12/24 Volt) by simply plugging into the cigarette lighter socket. Kit with cradles.

Mobile Holder

Mobile holder for securing the phone. Ideal in combination with the Headset PTT or the Car Kit Portable.

Car Mobility Pack

Allows handsfree talking and simultaneously charges the mobile phone in the car.

Car Kit Portable

Hands-free kit with integrated loudspeaker and microphone and auto talk feature. Simply plug into the cigarette lighter socket.

Innovations

MP3 player USB

Stereo headset for handsfree talking and superior sound quality when playing MP3 audio files. The 32 MB MultiMediaCard records 30 minutes of music in premium quality. The package includes the software for downloading and the USB connecting cables.

Products can be obtained in specialty shops. Visit our online shop under:

www.icm.siemens.com

The U.S. Food and Drug Administration's (FDA) Center for Devices and Radiological Health Consumer Update on Mobile Phones



FDA has been receiving inquiries about the safety of mobile phones, including cellular phones and PCS phones. The following summarizes what is known - and what remains unknown - about whether these products can pose a hazard to health, and what can be done to minimize any potential risk. This information may be used to respond to questions.

Why the concern?

Mobile phones emit low levels of radio frequency energy (i.e., radio frequency radiation) in the microwave range while being used. They also emit very low levels of radio frequency energy (RF), considered non-significant, when in the stand-by mode. It is well known that high levels of RF can produce biological damage through heating effects (this is how your microwave oven is able to cook food). However, it is not known whether, to what extent, or through what mechanism, lower levels of RF might cause adverse health effects as well. Although some research has been done to address these questions, no clear picture of the biological effects of this type of radiation has emerged to date. Thus, the available science does not allow us to conclude that mobile phones are absolutely safe, or that they are unsafe. However, the available scientific evidence does not demonstrate adverse health effects associated with the use of mobile phones.

What kinds of phones are in question?

Questions have been raised about hand-held mobile phones, the kind that have a built-in antenna that is positioned close to the user's head during normal telephone conversation. These types of mobile phones are of concern because of the short distance between the phone's antenna - the primary source of the RF - and the person's head. The exposure to RF from mobile phones in which the antenna is located at greater distances from the user (on the outside of a car, for example) is drastically lower than that from hand-held phones, because a person's RF exposure decreases rapidly with distance from the source. The safety of so-called "cordless phones," which have a base unit connected to the telephone wiring in a house and which operate at far lower power levels and frequencies, has not been questioned.

How much evidence is there that hand-held mobile phones might be harmful?

Briefly, there is not enough evidence to know for sure, either way; however, research efforts are on-going. The existing scientific evidence is conflicting and many of the studies that have been done to date have suffered from flaws in their research methods. Animal experiments investigating the effects of RF exposures characteristic of mobile phones have yielded conflicting results. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. In one study, mice genetically altered to be predisposed to developing one type of cancer developed more than twice as many such cancers when they were exposed to RF energy compared to controls. There is much uncertainty among scientists about whether results obtained from animal studies apply to the use of mobile phones. First, it is uncertain how to apply the results obtained in rats and mice to humans. Second, many of the studies showed increased tumor development used animals that had already been treated with cancer-causing chemicals, and other studies exposed the animals to the RF virtually continuously - up to 22 hours per day.

For the past five years in the United States, the mobile phone industry has supported research into the safety of mobile phones. This research has resulted in two findings in particular that merit additional study:

1. In a hospital-based, case-control study, researchers looked for an association between mobile phone use and either glioma (a type of brain cancer) or acoustic neuroma (a benign tumor of the nerve sheath). No statistically significant association was found between mobile phone use and acoustic neuroma. There was also no association between mobile phone use and gliomas when all types of gliomas were considered together. It should be noted that the average length of mobile phone exposure in this study was less than three years.

When 20 types of glioma were considered separately, however, an association was found between mobile phone use and one rare type of glioma, neuroepitheliomatous tumors. It is possible with multiple comparisons of the same sample that this association occurred by chance. Moreover, the risk did not increase with how often the mobile phone was used, or the length of the calls. In fact, the risk actually decreased with cumulative hours of mobile phone use. Most cancer causing agents increase risk with increased exposure. An ongoing study of brain cancers by the National Cancer Institute is expected to bear on the accuracy and repeatability of these results.¹

2. Researchers conducted a large battery of laboratory tests to assess the effects of exposure to mobile phone RF on genetic material. These included tests for several kinds of abnormalities, including mutations, chromosomal aberrations, DNA strand breaks, and structural changes in the genetic material of blood cells called lymphocytes. None of the tests showed any effect of the RF except for the micronucleus assay, which detects structural effects on the genetic material. The cells in this assay showed changes after exposure to simulated cell phone radiation, but only after 24 hours of exposure. It is possible that exposing the test cells to radiation for this long resulted in heating. Since this assay is known to be sensitive to heating, heat alone could have caused the abnormalities to occur. The data already in the literature on the response of the micronucleus assay to RF are conflicting. Thus follow-up research is necessary.²

FDA is currently working with government, industry, and academic groups to ensure the proper follow-up to these industry-funded research findings. Collaboration with the Cellular Telecommunications Industry Association (CTIA) in particular is expected to lead to FDA providing research recommendations and scientific oversight of new CTIA-funded research based on such recommendations.

Two other studies of interest have been reported recently in the literature:

- Two groups of 18 people were exposed to simulated mobile phone signals under laboratory conditions while they performed cognitive function tests. There were no changes in the subjects' ability to recall words, numbers, or pictures, or in their spatial memory, but they were able to make choices more quickly in one visual test when they were exposed to simulated mobile phone signals. This was the only change noted among more than 20 variables compared.³
- In a study of 209 brain tumor cases and 425 matched controls, there was no increased risk of brain tumors associated with mobile phone use. When tumors did exist in certain locations, however, they were more likely to be on the side of the head where the mobile phone was used. Because this occurred in only a small number of cases, the increased likelihood was too small to be statistically significant.⁴

In summary, we do not have enough information at this point to assure the public that there are, or are not, any low incident health problems associated with use of mobile phones. FDA continues to work with all parties, including other federal agencies and industry, to assure that research is undertaken to provide the necessary answers to the outstanding questions about the safety of mobile phones.

What is known about cases of human cancer that have been reported in users of hand-held mobile phones?

Some people who have used mobile phones have been diagnosed with brain cancer. But it is important to understand that this type of cancer also occurs among people who have not used mobile phones. In fact, brain cancer occurs in the U.S. population at a rate of about 6 new cases per 100,000 people each year. At that rate, assuming 80 million users of mobile phones (a number increasing at a rate of about 1 million per month), about 4800 cases of brain cancer would be expected each year among those 80 million people, whether or not they used their phones. Thus it is not possible to tell whether any individual's cancer arose because of the phone, or whether it would have happened anyway. A key question is whether the risk of getting a particular form of cancer is greater among people who use mobile phones than among the rest of the population. One way to answer that question is to compare the usage of mobile phones among people with brain cancer with the use of mobile phones among appropriately matched people without brain cancer. This is called a case-control study. The current case-control study of brain cancers by the National Cancer Institute, as well as the follow-up research to be sponsored by industry, will begin to generate this type of information.

What is FDA's role concerning the safety of mobile phones?

Under the law, FDA does not review the safety of radiation emitting consumer products such as mobile phones before marketing, as it does with new drugs or medical devices. However, the agency has authority to take action if mobile phones are shown to emit radiation at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of mobile phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions at this time, FDA has urged the mobile phone industry to take a number of steps to assure public safety. The agency has recommended that the industry:

- Support needed research into possible biological effects of RF of the type emitted by mobile phones;
- Design mobile phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- Cooperate in providing mobile phone users with the best possible information on what is known about possible effects of mobile phone use on human health.

At the same time, FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of mobile phone safety to ensure a coordinated effort at the federal level. These agencies are:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Health and Safety Administration
- National Telecommunications and Information Administration

The National Institutes of Health also participates in this group.

In the absence of conclusive information about any possible risk, what can concerned individuals do?

If there is a risk from these products and at this point we do not know that there is-it is probably very small. But if people are concerned about avoiding even potential risks, there are simple steps they can take to do so. For example, time is a key factor in how much exposure a person receives. Those persons who spend long periods of time on their hand-held mobile phones could consider holding lengthy conversations on conventional phones and reserving the hand-held models for shorter conversations or for situations when other types of phones are not available.

People who must conduct extended conversations in their cars every day could switch to a type of mobile phone that places more distance between their bodies and the source of the RF, since the exposure level drops off dramatically with distance. For example, they could switch to:

- a mobile phone in which the antenna is located outside the vehicle,
- a hand-held phone with a built-in antenna connected to a different antenna mounted on the outside of the car or built into a separate package, or
- a headset with a remote antenna to a mobile phone carried at the waist.

Where can I find additional information?

For additional information, see the following websites:

- Federal Communications Commission (FCC) RF Safety Program (select "Information on Human Exposure to RF Fields from Cellular and PCS Radio Transmitters"): <http://www.fcc.gov/oet/rfsafety>.
- World Health Organization (WHO) International Commission on Non-Ionizing Radiation Protection (select Qs & As): <http://www.who.int/emf>
- United Kingdom, National Radiological Protection Board: <http://www.nrpb.org.uk>
- Cellular Telecommunications Industry Association (CTIA): <http://www.wow-com.com>
- U.S. Food and Drug Administration (FDA) Center for devices and Radiological Health: <Http://www.fda.gov/cdhr/consumer/>

¹ Muscat et al. Epidemiological Study of Cellular Telephone Use and Malignant Brain Tumors. In: State of the Science Symposium; 1999 June 20; Long Beach, California.

² Tice et al. Tests of mobile phone signals for activity in genotoxicity and other laboratory assays. In: Annual Meeting of the Environmental Mutagen Society; March 29, 1999, Washington, DC; and personal communication, unpublished results.

³ Preece, AW, Iwi, G, Davies-Smith, A, Wesnes, K, Butler, S, Lim, E, and Varey, A. Effect of a 915- MHz simulated mobile phone signal on cognitive function in man. *Int. J. Radiat. Biol.*, April 8, 1999.

⁴ Hardell, L, Nasman, A, Pahlson, A, Hallquist, A and Mild, KH. Use of cellular telephones and the risk for brain tumors; a case-control study. *Int. J. Oncol*, 15: 113-116, 1999.

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