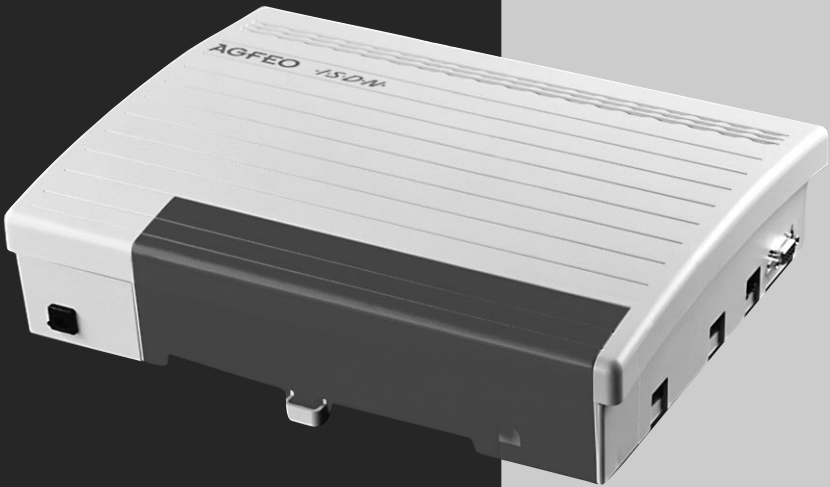


ISDN PBX-System

Manual

Basic-Line: AS 181



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Safety Notes

- Installation and Maintenance of the System only by trained personnel.
- Important! To prevent personal injury and damage to equipment please ensure that the system is properly earthed and that the appropriate cable is connected in the mains plug.
- The System must be installed so that the connection panel is at the bottom.
- Do not connect or disconnect any PSTN lines during a thunderstorm.
- Install lines and extensions in such a way that no one walks or trips over them.
- Disconnect the System from the mains supply before opening the connection panel.
Before connection of lines and extensions please ensure that the system is unplugged from the mains supply. DANGER!
- Preventive measure! Before carrying out any installation work, please touch briefly the PC/Printer socket of the telephone system. This will discharge any possible electrostatic charges, thus protecting the telephone system's electrostatically sensitive components.
- Do not allow liquids to enter the system as short-circuits may occur.
- No liability will be accepted for consequential damages such as an unintentional continued connection of a line.
- The telephone system will not operate in case of power failure and you will not be able to make any type of call.

The telephone system is intended for connection to an ISDN basic rate access (DSS 1). You may also connect any type of analogue telephone to the system which has been approved for connection to the Public Switched Telephone Network (PSTN). You may also connect all DSS 1 ISDN terminals to an internal S0 bus that has been approved for direct connection to the ISDN network.

Doorphones must conform to the specification of the respective interface. Any other use of the system is not permitted and therefore illegal

The telephone system has a general connection permit (Germany: AAE).

The telephone system conforms to the prescribed conformity and safety regulations.

About this User Manual

The instruction is valid for the default setting of the system. If the system should be modified due to software made available through the manufacturer then it may be possible that sections of the instruction manual become invalid. All listed ISDN features will be supported by the system. However, some features may not be available through the Network Operator.

Introduction

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Introduction

The AS 181 Telephone System

Thank you for choosing the AS 181 Telephone System.
The AS 181 offers high quality, excellent functionality and ease of use operation.

Basic functions

8 Analogue extensions, 1 SO external, 1 SO switchable (intern/extern), 1 Doorphone interface, 1 USB connection, 1 RS 232 connection

Additional connections:

An audio input for external Music on Hold and two switching relays for remote switching applications underline the versatility of the AGFEO AS 181 Telephone System.

Introduction

Important notes on using analogue equipment

Only analogue Apparatus which are approved to be connected to the Public Switched Telephone Network (PSTN) may be connected to the analogue side of the system. This includes all 2 wire telephones, answering -, fax machines, and modems.

The system supports both dialling method Loop Disconnect (LD) or Dual Tone Multi Frequency (DTMF). DTMF is a faster dialling method. The system will detect the dialling method automatically.

From an analogue phone, you can call any extension free of charge by dialling the internal phone number. You can call an external number after seizing an outside line.(B channel) Do do this dial 9 (0) to get an outside line and then dial the telephone number required.

If you set "spontaneous exchange line seizure with internal " for your telephone extension then you must press the hash button before the internal phone number. Note in this mode you cannot call an extension if your phone is an older LD or rotary type dial phone.

To carry out system functions, your phone must have a STAR Button (*). The sequence to enter will be * followed by the function number. If your phone is an older type LD phone then you can dial 99 instead of * .

Your phone must have an R Button (Recall Button) to make an enquiry call . The signalling for this must be set to Timed Break Recall (TBR). On older rotary dial phones you do not need to press the R Button when making an enquiry call. System functions such as last number redial, abbreviated dialling etc, can be carried out from any LD phone. Details of such operations are given in this manual and in the short reference guide under Analogue and ISDN Terminals.

You can also use the functions of a standard analogue telephone (e.g. redial, abbreviated dialling) in conjunction with your telephone system. Please refer to the operating instructions for the telephone concerned for details of these functions. Details on how to access features of your telephone system via a standard telephone are available in this user manual and in the 'short version' of the operating instruction under Analogue and ISDN terminals.

Each programming entry will be acknowledged by a confirmation tone. If this tone is not received or if an error tone is returned then you must repeat this entry.

The telephone system is forwarding counting pulses to analogue terminals to display connection charges (charge pulses).

For data transfer via the analogue ports, the telephone system supports the V.90 standard (up to 56600 bps, a reduction in speed is possible due to transmission path and cables used, down to 33600 bps V.34+).When operating a modem, it is imperative to configure the modem to blind dialling because most modems do not detect the dial tone of a telephone system.On modems that operate with the Hayes command set, blind dialling is set by means of the X0..X4 parameters.

Introduction

Important notes on using ISDN terminals

You may connect up to eight ISDN terminals to one S0 Bus of the telephone system.

ISDN terminals:

- AGFEO Digital System Telephones
- ISDN Telephones
- ISDN Cards
- ISDN Fax Machines

Depending on current consumption, you may connect at least four ISDN terminals that do not have a power supply of their own.

Example: 4 ISDN telephones or 2 digital system telephones plus 2 ISDN telephones.

All ISDN terminals must be approved ISDN terminals (DSS 1).

The internal S0 access is like a point-to-multipoint connection any available extension number from the system may be assigned to it. The 2 digit extension number will be treated like a multiple subscriber number (MSN). You can enter one or several of these MSN's in your ISDN terminal. If you should use this method, then please refer to the ISDN terminal's operating instruction. The multiple subscriber number is the ISDN -terminal's internal and Direct Dial Inward (DDI) number.

From an ISDN terminal, you call any internal extension free of charge by dialling the corresponding internal phone number. You can make external calls after seizure of an outside line by dialling 9 (0). If the port is set to ,spontaneous exchange line seizure with internal' then you must press the R button before dialling an internal number. If your Terminal has no R button or does not support this function then it will not be possible to make internal calls. ISDN telephones must use the same functions as analogue phones. For example you must press the star button before a function code is dialled. For ISDN phones that do not have a star button, you dial 99 instead.

To make an enquiry call you must have an R button on your ISDN telephone.

When programming the system, please ensure that the system confirmation tone is returned to you. If the confirmation tone is not returned or you receive an error tone, then you must re-enter the last entry.

The following can be displayed on your ISDN telephone:

- Caller's phone number (internal and -external)
- Call Charges
- Date and time after the first internal -connection

You can only make restricted use of the menu prompt functions.

Introduction

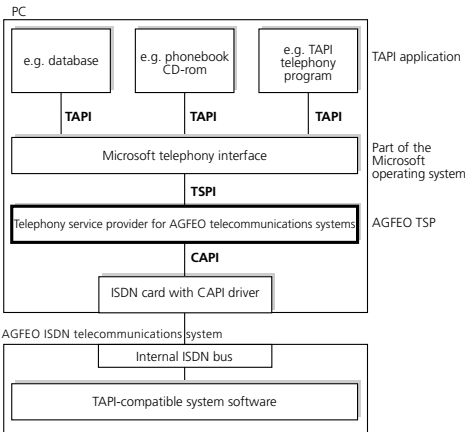
CTI - computer telephony integration

TK-Suite Contact

With this Telephone System we included the Software Pack TK-Suite, this contains the CTI application TK-Suite Contact .With this it will be possible to dial telephone numbers direct from your PC, see calls on your monitor and return calls direct from the missed call list. The capability can be looked up via the online help by pressing F1 on your PC at any time.

TAPI

Contrary to TK-Phone, the TAPI (Telephony Applications Programming Interface) is not an independent CTI application, but an interface between a TAPI-compatible Windows application and the telephone system. If the program or applications supports this then it will be possible to control the entire telephone system. The range of control is depending on the application you are running. However, in most cases you will be able to set up outgoing calls and display the arrival of incoming calls.



TAPI is an interface of the Microsoft operating system at the application end of Microsoft 's telephone interface. A Telephony Service Provider (TSP) from the manufacturer of the ISDN hardware -in this case AGFEO -is needed to link this to the phone system. The TSP is a driver that must be installed on your PC to run the TAPI functions and to control the necessary exchange of data between the PC and telephone system.

Due to the constant increase of functions of these applications that support TAPI the TSP is always updated. To ensure that the latest version is available to you we provide this TSP totally free of charge on our Internet home page <http://www.agfeo.de> . The self-extracting file contains all the information needed for the installation of this program. Should you have no internet access, then please contact your Dealer.

Notes









CTI -computer telephony integration via TK-Phone or TAPI is only possible with analogue- or AGFEO System Phones.

Introduction





Pictograms and Buttons

All operations and functions of the telephone system is explained in clear and easy to follow pictograms.

Pictograms

	Ringer (tone ringing)		Conduct a call
	Pick up receiver		Replace receiver
	Dial Phone or Code Number		Conference
	Acknowledgement tone		Room monitor

Buttons

	Recall Button		Star Button for functions
	Number Button for entering digits, e.g. „9“		Hash Button to dial extension when automatic line seizure is active

System telephones

You may also use System Phones this will aid the ease of operation of your AGFEO ISDN Telephone System.

There are three different models available

-Digital ISDN System Telephone ST 25

-Digital ISDN System Telephone ST 30

-SystemHandy DECT 30 (only operational with an AGFEO S0 DECT Module)

The digital ISDN System Telephones ST 25 and ST 30 can be connected to any internal SO bus of the AGFEO Telephone System.

Up to two ST 25 or ST 30 can be connected to an internal SO Bus.

Installation

Safety Notice

The telephone system is for the connection to an ISDN Basic Rate line. (DSS1, Point to Point or Point to Multi Point)

You may connect any analogue apparatus to the system which your are allowed to connect to the Public Switched Telephone Network (PSTN).

You may also connect to an internal SO Bus any DSS1 ISDN devices which are approved to be connected to the Public Switched ISDN Exchange. In addition up to two AGFEO Digital Systemphones can be connected to an internal SO Bus.

Any other use of the system which does not comply with the aforesaid is prohibited. The system has a General European Connection Licence.

- The system conforms to the specified conformity and safety regulations.
- Warning! The telephone system must have a functional electrical earth.
- DANGER! Please disconnect the apparatus from the mains socket before connecting extensions and lines to it. Before you commence installation, please touch the printer connection which is underneath the system to discharge any static electricity. This will protect any static sensitive components within the equipment.
- Do not connect or disconnect any lines during a thunderstorm.
- Install all cables so that no one walks or trips over them.
- Ensure that no liquids can enter the system as otherwise short circuits maybe the result.
- No liability will be accepted for consequential loss or damages such as call charges for unintentional calls or connections.
- No calls can be made during a power failure. We would suggest to install surge protectors to all lines or extensions which do not originate within the main building.

Connection cables for MoH, USB and RS232 must not exceed 3 metres.

Installation

Check contents of delivery

- 1 Telephone System AS 181
- 1 Installation material (3 Wall Plugs S6,3 Wood Screws,Phillips 4x40)
- 1 ISDN connecting Cable (IAE-IAE),1.5 m
- 1 ISDN connecting Cable (IAE-single wires)
- 1 RS 232 PC connection Cable
- 1 USB Connection Cable
- 1 Template
- 1 Instructions Pack
- 1 CD-ROM with TK-Suite and the AIS Konfigurator

The operating instruction in PDF format can be found on our homepage www.agfeo.de

Select Location

Install the System in a dry room free of any hazardous materials. Avoid sites near Air Conditioners, Radiators, Equipment with excessive high radiation, direct sunlight, excessive dust and the danger of liquid spillages such as Water or Chemicals.

Ambient Temperature 5C to 30 C. Max humidity 70% non condensing.

The distance of the equipment to other objects such be considered to guarantee an air circulation. The minimum clearance distance of 50 cm should be adhered to. The distance of the system to the mains socket and the telephone network socket should not be more than 1 meter. (Length of mains cable 1.20 m)

It must be made possible to place a Laptop or PC near the telephone system for programming.

Mains Socket

A separate mains socket for the telephone system should be installed. This will assist to give uninterrupted service in case that a mains fuse is tripped. The power consumption of the telephone system is approx 50 VA.

Please ensure that the system cover is replaced before connecting the equipment to the mains.

Warning! The telephone system must be electrically earthed. Please ensure that the mains socket is properly earthed before connecting the equipment to it.

Installation

Wall Mounting

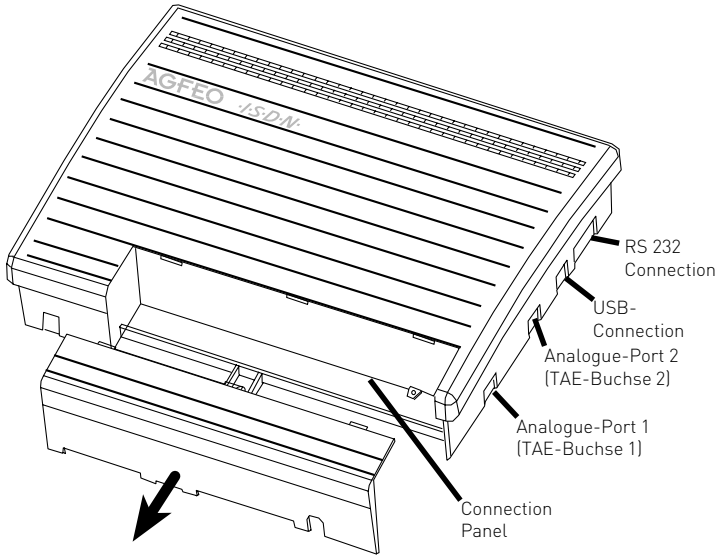
The system must be mounted on the wall so that the connectors are at the bottom of it. Use the mounting 1, 2, and 3 to fix the equipment to the wall.

- Use the template to mark the screw position.
- Before drilling ensure that there is no Mains, Water or Gas supply hidden in the wall.
- Use a masonry drill bit of 6 mm and drill to a depth of 40 mm,
or
- Wood Drill 3.5 mm Drill Depth 35 mm
- Insert Wall Plug and Screw, Screwhead distance from wall approx 3 mm.--
- Place the system on top of the screws and pull downwards until in place.
- Use last screw to secure system to wall.

Installation

Open Connection Cover

- Use a Screwdriver to press into the cut out of the connection cover.
- Pull the cover from the main housing in the direction of arrow



! Warning: Before opening ensure that the system is disconnected from mains supply

Safety Notes

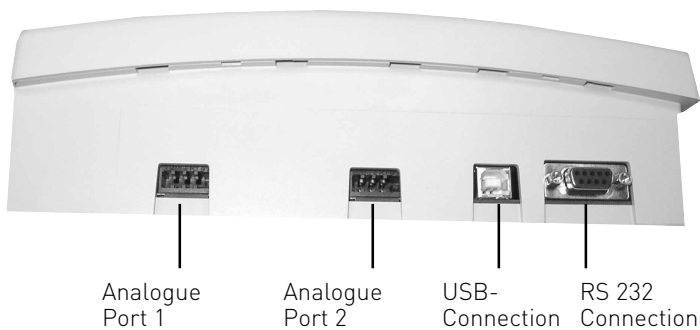
Please note the following:

- Before the installation or exchange of a module
- Before connection or disconnection of a line

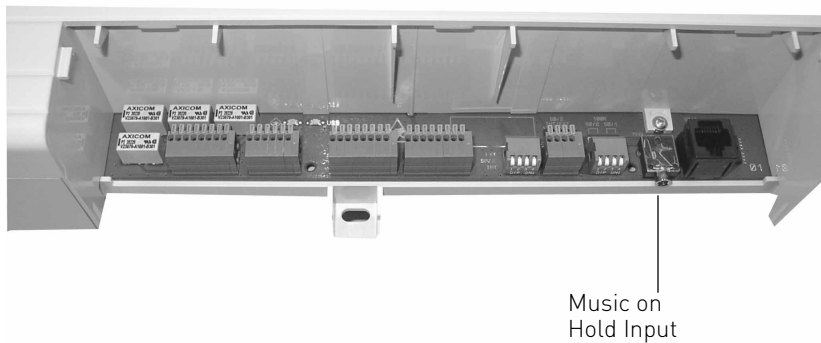
1. Disconnect the System from the Mains Supply.
2. Disconnect all RJ Plugs of all external ISDN Lines either on the Network Termination Point or the SO Bus
3. With your finger touch the RS232 connection at the underside of the system to discharge any static electricity and to protect static sensitive components in the telephone system.

Installation

AS 181 Connections

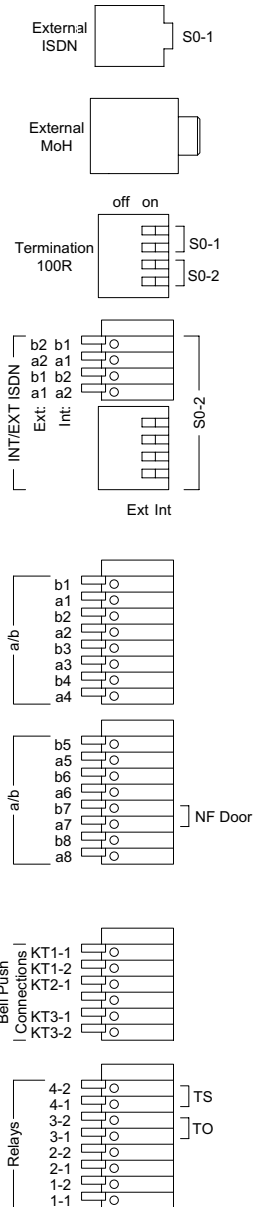


Opened Connection Panel of the AS 181



Installation

AS 181 connections



Installation

Connect Analogue Extensions

You may connect any analogue apparatus to the system which has been approved for connection to the public switched telephone network.

a/b-Apparatus is:

- Telephone (2 wire Phone or POT) either LD or MF Dialling with Timed Break Recall (TBR) (60 – 800 ms)
- LD Phones may only have limited feature access.
- Fax machines Group 3
- Telephone Answering Machines
- Modem 56k (V.90 to 56600 bps, may reduce to 33600 bps due to quality of lines V.34+)

Connect the analogue apparatus via 2 wires to the a and b wire (Speech Pair) of the system port

Connection of wire

- Strip the cable by 11 mm.
- Push the single wire all the way into the connection block without pressing the release catch.
- To disconnect a wire, press the release catch with a small screwdriver while at the same time pulling out the conductor

External S0-Connection Fixed S0-0 (RJ45 Socket)

System Access Connection

You can only connect a telephone system to a system access connection or also known as point to point connection. Other ISDN devices cannot be connected. The system can be connected directly to the NTTP via the enclosed ISDN Cable. You can also connect to a socket which is then connected to the NTTP.

Termination Resistors for the external S0 Connection S0-0

Both switches for the 100 Ohm Termination Resistors must be set to on for the System Access Connection.

Standard Access Connection

A Point to Multi Point connection may be installed as a S0 Bus type and up to 12 ISDN Sockets can be connected to this. The telephone system and up to seven additional ISDN devices may be connected to the S0 Bus.

Termination Resistors for the external S0 Connection S0-0

Both switches for the 100 Ohm Resistors must be set as follows:-

- **closed or on** if the connection is made directly onto the NTTP or on the last socket which has no 100 Ohm Termination Resistors fitted.
- **open or off** if the last socket has the 100 Ohm Termination Resistors installed or if the telephone system is not the last ISDN device on a PTMP line.

Connect the phone system directly with the ISDN connection cable to an ISDN socket of the S0 Bus or to the NTTP if the installation has no S0 Bus option.

Installation

Switchable S0 Connection S0 1 (internal or external S0-Connection)

External S0-Connection S0-1

You may connect the external S0 Connection to a System Access (PTP) or Standard Access (PTPM) line. Please refer to External S0 Connection (RJ45 Socket).

Use the enclosed ISDN Cable and connect the four wires to the S0 connection block of the module.

- Push the wire all the way into the connection block without pressing the release catch.
- Connector: a1 -green
 b1 -brown
 a2 -yellow
 b2 -white

- To disconnect a wire, press the release catch with a small screwdriver while at the same time pulling out the conductor.
- Guide the cable through the cable comb.

Termination Resistors for the external S0 Connection

System Access (PTP) –Both DIP Switches (Page 1-7/8) for the 100 Ohm Resistors must be closed or set to on. (Default Setting)

Standard Access (PTMP) - Both DIP Switches (Page 1-7/8) must be

- **closed or set to on** if the connection is made directly onto the NTTP or on the last socket which has no 100 Ohm Termination Resistors fitted.
- **open or set to off** if the last socket has the 100 Ohm Termination Resistors installed or if the telephone system is not the last ISDN device on a PTMP line.

Plug the ISDN Plug into the ISDN connection after completion of all installation work.

Installation

Internal S0-Connection

You can connect up to 8 ISDN devices like on a PTMP connection on the internal S0 Bus of the System.

ISDN Apparatus:

Digital AGFEO System Phones (max 2 digital phones per S0 Bus)

-ISDN -Telephones

-ISDN -PC-Cards

-ISDN -Fax machines

Up to four ISDN devices without additional power may be connected. For example: 4 ISDN Telephones or 2 Digital System Phones plus 2 ISDN Telephones.

Connections of further ISDN devices will need their own power source.

ISDN Apparatus must use the DSS1 protocol.

You will need the following material to install an internal S0 Bus.

Telephone wire CW1308 (minimum 2 pair) or CAT5 Cable

RJ45 Sockets max. 12 per Bus

2 Termination Resistors, 100 Ohm 0.25 W

Maximum S0 Bus length will be 130 m. (Telephone System to last RJ45 Socket)

Termination Resistors for the Internal S0 Connection

The internal S0 Bus must be terminated. Install two 100 Ohm Resistors in the last RJ45 Socket

(See Diagram). Both DIP Switches (see Page 1-6) must be closed (or set to on)

Colour Code for Telephone Cable CW1308

S0 Bus	Contact	Colour
a1	4	Blue/white Bands
b1	5	White/Blue Bands
a2	3	White/Orange Bands
b2	6	Orange/White Bands

Colour Code for T568B (CAT5)

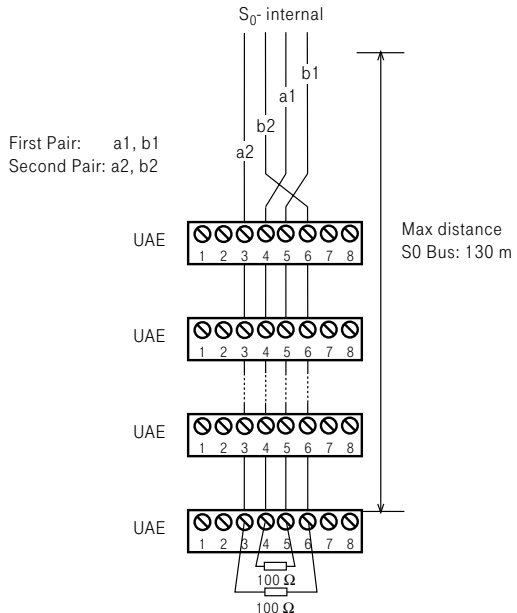
S0 Bus	Contact	Colour
a1	4	Blue/White
b1	5	White/Blue
a2	3	White/Green
b2	6	Green/White

Colour Code for T568 A (ISDN)

S0 Bus	Contact	Colour
a1	4	Blue/white
b1	5	White/Blue
a2	3	White/Orange
b2	6	Orange/White

Most common used standard for S0 Bus installation is T568B (CAT5)

Ensure that pairs are not mixed up.



Installation

Doorphone Installation

The telephone system AS 181 has connections for doorphones with built in amplifiers to the 4 wire standard FTZ 123 D 12. The system will support one bell push per connection. Should you connect a doorphone to the AS 181, then the speech path of the extension port 7 is used and you are unable to connect a telephone to this port. (Further information regarding doorphone connections are available by visiting our website on www.agfeo.de)

AS 181 Connections

Connections:(Page I-6)

- Contacts KT1 and KT2 are for the connection of a Bell Push
- Connection of a DC free speech circuit of either a doorphone or Tannoy system on NF1 and NF2.
- Electric door release via the relay contacts TO. Max load 30 VDC / 1A.
Note: You will need a bell transformer to activate the lock release
- Doorphone control via the relay contacts TS. Max load 30 VDC / 1A

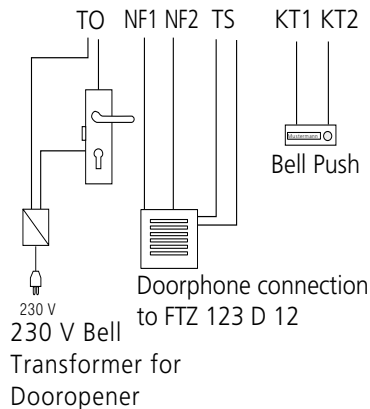
Connecting Cable:

- Strip 11 mm of the wire
- push the wire all the way into the connection block without pressing the release catch.
- to disconnect a cable, press the release catch with a small screwdriver and pull the wire out of the connection block

For installations not within the building parameter we would advise the installation of surge protectors.

Should you need further bell pushes, then you may use KT2 and KT3 connections of the AS 181.

- NF1, NF2 = DC free speech circuit
- KT, KT2 = Bell Push connection
- TO = Dooropener-Relay
- TS = Relay to activate external amplifiers



Installation

Doorphone-Relays

The doorphone relays of the AS 181 can be used to operate connected doorphones or use the relays to switch other applications such as an additional bell or lighting.

Via **programming** the relay will be set to operate as a pulse relay (3 seconds on then off when activated) or on/off relay. The relays can be switched from every extension phone or any external phone. In addition an extension number can be allocated to a relay which is then entered in the call distribution table to activate additional equipment if so required. The relay contacts have a spark absorbing circuit of 1 kOhm, and a bridged 100nF Capacitor. Max load 30 VDC / 1A or 125 VAC / 0,5 A resistance load only

Connection of Music on Hold

You can connect the headphone socket of a CD Player, MP3 Player, Stereo Receiver or Cassette Deck via a 3.5 mm Jack Plug to the Music on Hold input at the underside of the telephone system. Port 8 of the AS 181 cannot be used if an external music source is connected.

The volume of the Music on Hold will be set at the audio equipment connected. To set the volume to the correct level, please call from an external line to an extension, as soon as the called extension puts the call on hold by pressing the R or the Call Split button the caller will hear Music on Hold.

Please observe Copyrights for musical recordings.

Commissioning

You completed the installation of the telephone system. Before you can make a call a few more details need to be covered.

- connect the user equipment. All apparatus approved for the connection to the public switched telephone network may also be connected to the telephone system.
- Plug the RJ 45 connection cable into the NTTP of the ISDN telephone service
- switch the telephone system on by plugging this into the mains socket
- As soon as the system is switched on you can make internal and external calls.
- an incoming call will ring extension according to the default setting of the system

the system can be programmed via a PC to the users requirements. Remote programming of the system can also be carried out by your installer.

Note

To avoid calling wrong telephone numbers please ensure that the following is carried out. After installation of the system please dial from an analogue MF telephone a single digit, this ensures that the system recognises the correct dialling method for the relevant extension. Should you change to a telephone which is dialling in LD, then you must dial a digit higher than 2. Should you operate two telephone on one port, then you must ensure that both phones connected are of the same dialling method.

Installation

Default Settings

Listed below are the default settings:

The Termination for external SO Connection is closed, the 100 Ohm terminating resistor is switched on

Switchable SO connection: set to external, the 100 Ohm terminating resistors are on

Extensions: 11, 12, 13, 14, 15, 16, 17, 18, 19, 20

All users set to: Telephone

External line access: unrestricted for all extensions

Line access with 9

Day Service 1 no entry

Night Service 2 no entry

Call diversion internal: off

Do not Disturb: Off for all extensions

Call waiting: off for all extensions

transmission of own number to called and calling party: set to on

Music on Hold: Internal off

Automatic dialling: off

Printing of call records: off for all extensions

Printing of dialled phone number: without

Cost limit: No entry

Charge unit factor: 0,061

Base factor: 0,061

Disconnect on Cost limit: off

Program access code: off

Switchbox number: no entry

Busy on Busy: off

Prefix 0 to call from call log via internal SO connection: off

System Phones:

-Display Call Charges:off

-Display:english

-Call Log:off

-Pop Up Menu : on

Installation

Tecnical Data AS 181

Specification	ISDN Telephone System
Basic Confioguration	1 external So Connection (PTP or PTMP) 1 SO connections switchable internal / external 8 Analogue Extensions (POT's) 1 Doorphone connection to FTZ 123 D 12 an extension Port (port 7) will be in use 2 Relays
Measurements	8,1 x 32,2 x 24,4 (High x Width x Depth)
Weight	1,6 kg
Ambient temperature - Operation/Storage	5 °C to 40 °C / -25 °C to +70 °C
Humidity	max. 70 % (none condensing)
Mains Connection - Power Consumption	230 VAC, +/-10%, 50 Hz $P_{max} = 32 \text{ W}$, $I_N = 250 \text{ mA}$
- Iddle	$P = 7 \text{ W}$
External S0 Connection fixed	PTP or PTMP connections, Euro ISDN 2e via RJ 45 Socket and enclosed connection cable
Switchable Connection	S0 connection internal / external switchable (DIP Switches) external: PTP or PTMP connection Euro ISDN 2e (DSS1) internal: PTMP connection, Euro ISDN 2e (DSS1)
- Connection	4 wire spring loaded connectors
- Length	max lenght of internal S0 Connection: 130 m
- Power Consumption internal S0	4,5 Watts
- ISDN-Apparatus	max. 8
Analogue Apparatus	max. 8
- Distance	2 x 50 Ohm (diam. 0,5 mm, 550 m)
- Connection	2-wire via spring loaded connectors
- Dial Method	DTMF or LD
- Enquiry Button	Flash (80 - 600 ms). Times are adjustable on the AS 181.
PC/ Printer Connection	RS 232C
- Range/ Level	3 m / +/- 5 V
- Connector	9 pin D-Socket
Music on Hold Feed	adjustable Headphone output from CD or MP3 Player
- Input Impedance	47 kOhm, unbalanced
- Input Voltage	max. 100 mVss

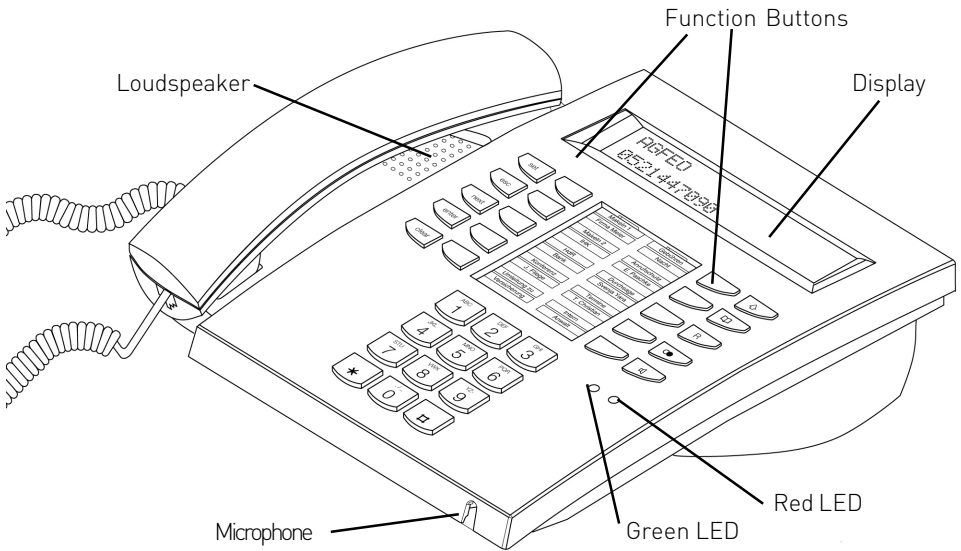
Installation

Technical Data AS 181

- Connector	3,5 mm Stereo-Jack Socket
Doorphone	TFE-Connection to FTZ 123 D 12 via Spring loaded connector block
- Connection	2 Relays (TO and TS) as either pulse or on/off can be used instead of a doorphone to FTZ 123 D 12 30 V DC / 1A resistance load only potential free contacts with spark elimination circuit
Relays	30 VDC / 1 A resistance load only
- Contact Load	potential free contact spark elimination circuit, 1 kOhm, bridged by 100nF
USB Connection	Universal Serial Bus
- Cable Length	max. 3 metres


System Telephones


System Telephone ST 25





 Numeric Keypad


 # and * Buttons


 Set Button for initiation and ending of program functions

 esc Button - for clearing a connection or for cancelling programming mode


 next Button - for scrolling further in the display in the event of different functions

 enter Button - for confirming inputs

 clear Button - for clearing a display or data


 shift Button - to use the second level of function keys and to switch the phonebook register mode (numeric / alphabetical). Change between small and capital letters.

 Telephone Directory Button: To list stored numbers

 Recall Button - to make an enquiry or brokers call

 LNR Button - Last Number Redial

 Handsfree Button - To activate Loudspeaker

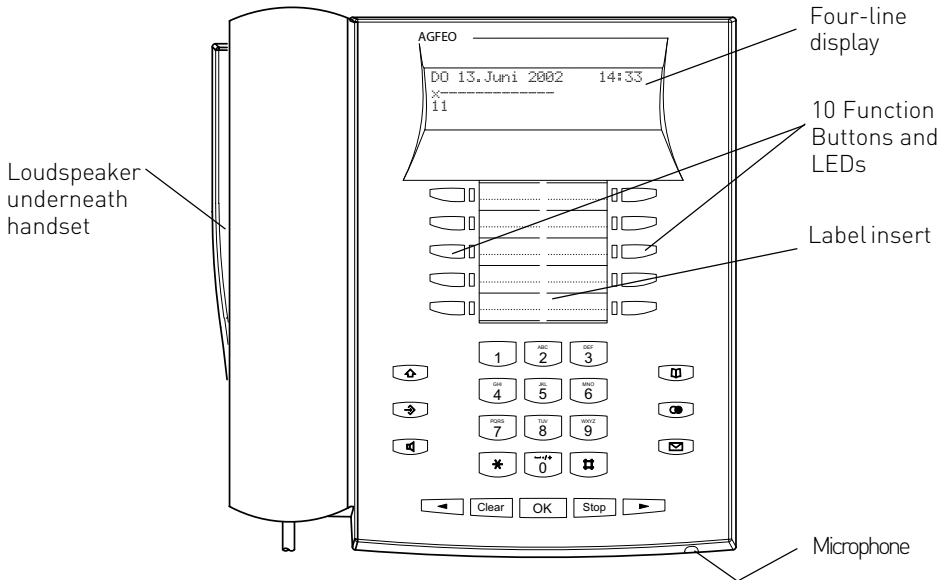
 10 Function Buttons - These Buttons have default functions assigned to them which can be changed via programming

Red LED - Flashes on appointment call or missed call. Lights up when DND (do not Disturb) is set

Green LED - Flashes when hands free mode is on, lights up by operating a headset.

System Telephones

System Telephone ST 30



Numeric Keypad

* and # Buttons

Shift Button - To access second level of function buttons to alternate between different modes of Phone Book retrievals and to change between upper and lower case letters.

Set Button - Start and end programming

Handsfree Button - Activates the Loudspeaker. Button lights up when activated.

Arrow Buttons - To scroll through the display where there is more than one function.

Clear Button - Clear an entry

OK Button - Confirm inputs

Stop Button - disconnect or cancel an action

Phone Book Button - Retrieval of Telephone Numbers.

LNR - Last Number Redial Button

Mail Button - Flashes on new entry in call log or missed calls. Stays lit for numbers already viewed. Clears when number is called or deleted from list by pressing clear button

10 function Buttons - User programmable, two entries per Button (First & Second Level) LED indication only for first level.

System Telephones

Setting up and cleaning the system telephones

Please find a suitable location for your phone and avoid any areas where it may be likely for water or chemical spillages to occur.

Plastic feet of the phone:

The phone as been produced for normal use.

The feet of the apparatus may alter when in contact with chemicals, such as furniture polish or other cleaning agent and could leave marks on surfaces. No liability will be accepted if this should occur. It is therefore advisable to place the telephone on a non slip matt to protect furniture from marking.

Cleaning

The cleaning of your telephone is relatively easy if you note the following points:

Please wipe the phone with a damp or anti static cloth.

DO NOT USE a dry cloth (as a static discharge could damage components in the phone)

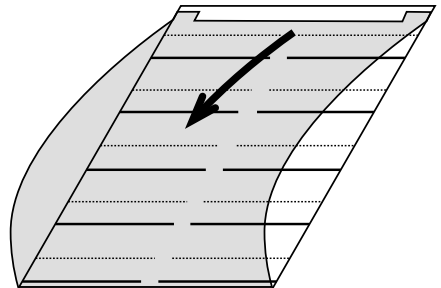
Ensure when cleaning that no liquids will enter the housing as this could damage switches and contacts.

Insertion of label strips for function buttons

Place your nail between the insert and telephone housing at the top. Then pull down the clear insert so that it is bending outwards.

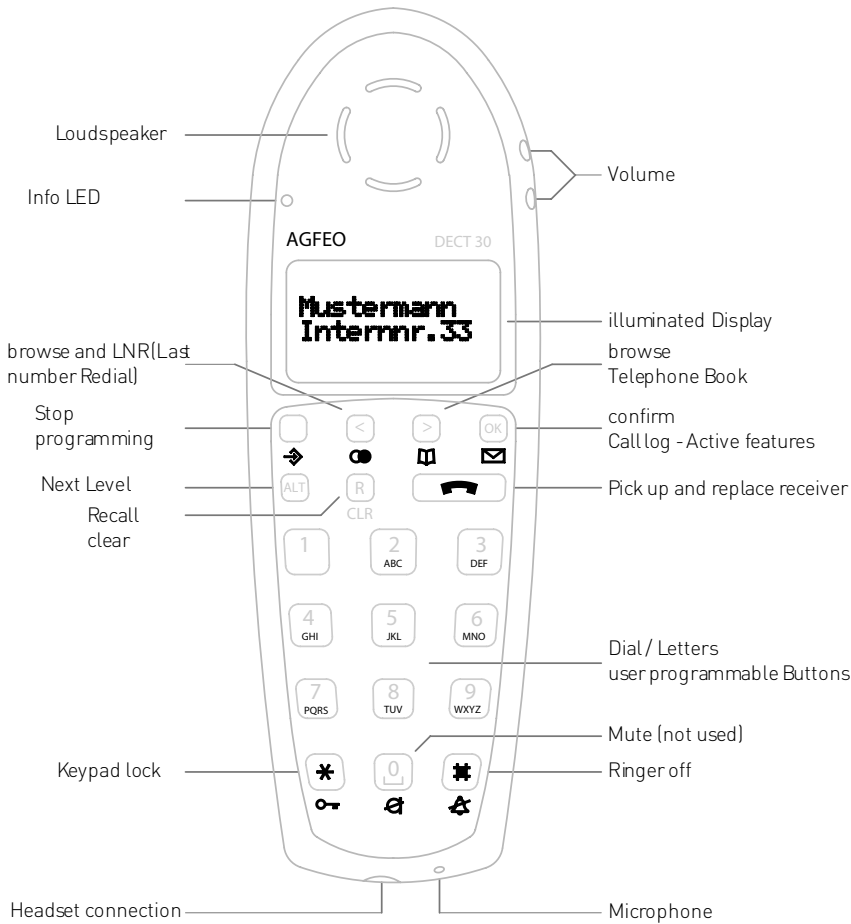
You now can remove the label insert. Insert the new label and replace clear cover. Insert bottom end first, bend outwards and then insert into top slot.

All labels can be printed direct from your PC with the use of TK-Set. This will aid to give your phone that professional look.






























System Telephones

DECT 30 System Cordless Phone



System Telephones

Button allocation of the DECT 30 System Phone

- | | | | |
|---|---|---|---|
|  1...0 | Dialling keypad - for dialling a phone number and entering data |  ALT  | ALT Mail -to view Call Log, access TAM or activate System features |
|  * |  | | |
|  < |  > | | |
| | Arrow keys - for scrolling in the display |  | Redial - LNR (Last Number Redial) |
|  OK | OK - to confirm input or selection |  ALT  | ALT redial - to use System Redial Function |
|  ALT | Alt - activation of functions. Switching function buttons to second level. To use function buttons. To select phone book. |  | Program Button – to program the DECT 30's own function |
|  R | Recall key - to make an enquiry call and used for Brokers Call. |  ALT  | ALT + Program – to program System functions |
|  | Handset - to answer and end a call. Also used to clear function. |  | To activate Keypad lock |
|  | Phone book - DECT 30's own Phone Book |  | No function allocated |
|  ALT  | ALT + Phone Book to access System Phone Book |  |  To switch off Ringer – Call indication can still be displayed and Vibration Alert may also be still active. |
|  | Messages – no function allocated |  ALT  | Clear - to clear an entry. |

System Telephones

System Telephones - settings

ST 25

ST 30

DECT 30

You can alter the following settings on your System Phone:

- Tone Ringer - Volume and Pitch
- On Hook / Handsfree Volume
- Display Contrast – to set optimum viewing angle
- Handsfree microphone – Automatic activation on Voice Alert
- Headset and Handset Volume (ST 25 and ST 30)
- Telephone Lock – Your Phone will be barred from making calls
- Display of call charges
- Status display (Extensions and Lines) and or Date & Time
- Language Settings (English/German)
- Set Call Log
- Set access to outside line -direct or with access digit

Setting of Date & Time is done by the ISDN Network (Not available from UK Network Providers)

Setting the Ringing volume

Press SET 21 to alter the Ringing Volume

Available Values 1 - 7

Meanings:

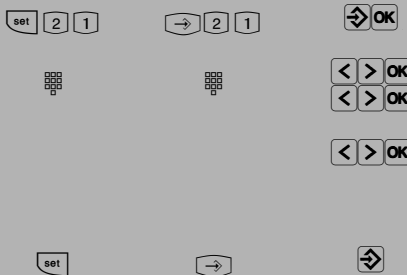
1 -very low

7 -very high.

You hear a short ring in the volume selected.

Exit Programming.

Your phone will ring at the newly set value.



Setting the Ringers Tone or Pitch

Press SET 22 to alter the Pitch.

The current setting is displayed.

Enter the new Value

Meanings:

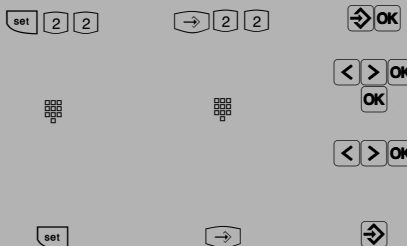
1 -very slow

7 -very fast.

You hear a sample ring.

Exit programming.

Your Phone will now ring with the selected tone.



System Telephones

Setting the Display Contrast

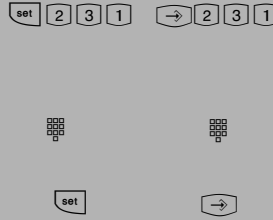
Press SET 231 to alter the display contrast. The current setting is displayed

Enter the new value
2 - 7

The contrast changes immediately.
Exit programming.

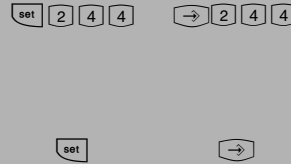
ST 25

ST 30



Handsfree Microphone - Set to Auto on

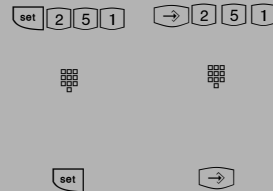
Press SET 244 to activate automatically the Handsfree Microphone. The current setting is displayed.
Press 1 to activate automatic activation or 0 to switch off
Exit programming.



Setting the Speaker Volume

Press SET 251 to set the Speaker Volume. The current setting is displayed.
Enter the value required 1 to 7
1 -very low
7 -very high.

Exit programming.

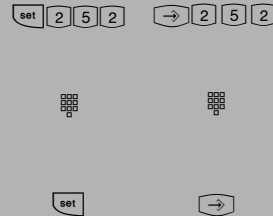


Setting the Headset Volume

Press SET 252 to set the Headset Volume. The current setting is displayed.

Enter the new setting from 1 to 5
1 -very low
5 -very high.

Exit programming.



System Telephones

Telephone Lock (PIN)

ST 25

ST 30

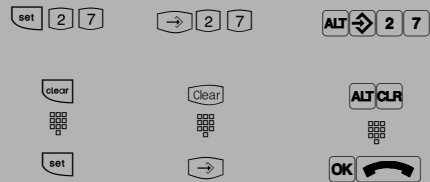
DECT 30

Every system telephone can be locked with a PIN number (see 'Telephone lock -emergency /direct call ').

No calls can be made except numbers which have been stored in the * and # location and the auto dial number. To prevent locking or unlocking of the phone please use a PIN number.

To program PIN Number Press SET27

If necessary clear any existing code first
Enter new 4 digit PIN number
Exit programming



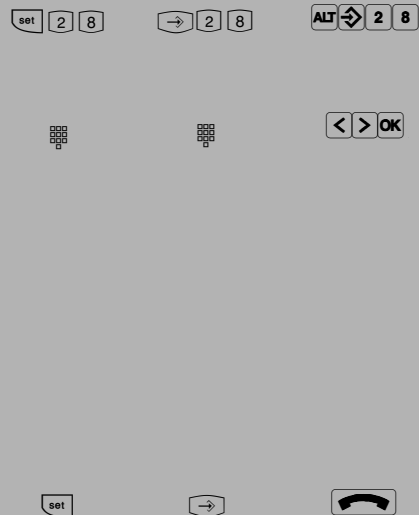
Cost display

Press Set 28 to switch the display of call charges on or off.
The current setting is displayed.

Press 1 for on or
2 for off

If the current setting is set to off then the Time will be displayed. If it is set to on, the charges will be displayed for 5 seconds after each receipt of a charge pulse from the exchange. At the end of a call the cost is displayed for 20 seconds before the display returns to show the date & time.

Please note that this service may have to be requested from your network provider as indication of call charges during or at the end of a call. (This service is not available from the UK network providers)
Exit programming.

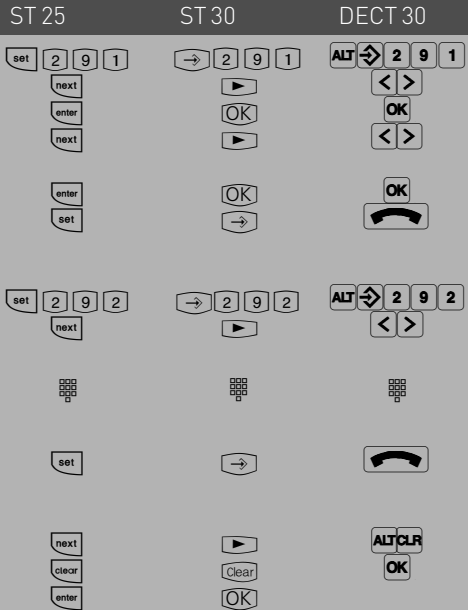


System Telephones

Status Display & Date/ Time

To set the status display of the S0 's:
 Select a free space in the display with "next", confirm with "enter", select the S0 whose status is to be displayed with "next", confirm with Enter.
 Set other S0 or exit programming with set.

Setting the status display of the internal number:
 Select a free space in the display with "next", enter the internal number whose status is to be displayed.
 Set other internal number or exit programming with set. If you have not entered an internal number you have an undefined status display.
 To clear a position, select this with "next", and clear with "Clr" and confirm with "Enter".
 In the DECT 30 you can only clear all status entries together.



Set Date & Time

You can set the Date and Time with the following procedure:

Start Programming with: *705

Set Time with:

Set Date with:

End Programming with: *700

*7381 HHMM

*7382 DDMMYY

To Set Date & Time

Under normal circumstances you do not need to set the date and time as this is done automatically from the ISDN network when a call is made. Winter and Summer times are also set automatically. However, this service is not available from the UK network providers and therefore the system has to be user set.

System Telephones

Set Language

Press SET 20 to change the language displayed.

Select language required by pressing next.
Exit programming.

ST 25

ST 30

DECT 30



Call Log

If an incoming call is not answered then the called number, date and time are recorded in the Call Log. This is providing that the number is not withheld. Calls can be returned by the touch of a button or removed from the Call Log. Unanswered extension calls, can if so required add their extension number to the Log.

Programming:

The Call Log can be switched on or off and settings can be made if the number or also the name, if in the Phone Book, is to be logged. Alternatively it is also possible to create a Call Log for callers which are stored in the Phone Book. In this case all none stored numbers are ignored.

Call Log ON / OFF

Press SET 2* to set the Call Log. The current setting is displayed

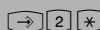
Enter new setting

0 = switch off logging of external calls

1 = switch on logging (All Calls with name & number)

2 = Names only, which are stored in Systems Phone Book

Exit programming



System Telephones

External Line Access

ST 25

ST 30

DECT 30

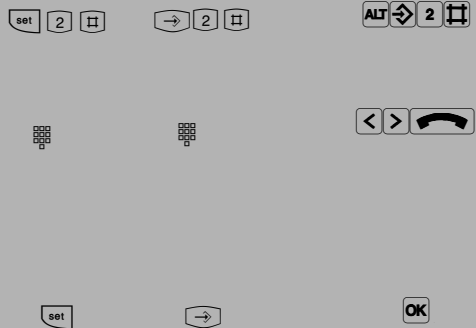
Depending on your preference the system offers different modes to connect to an outside line. Spontaneous seizure with internal will connect any number dialled to the exchange line. To dial an extension you prefix the extension number with #. If your phone has no # button then you are unable to make any internal calls. If you set the access to spontaneous then on lifting the receiver you will hear external dial tone. With this setting you cannot make any internal calls. This setting could be used for a faxmachine or a payphone. If you select the setting with access digit then you have to dial 0 (or 9) to get an outside line. In this case you would dial 9 and the required telephone number or the two digit extension number to make an internal call.

Setting External Seizure

Press SET 2# to set outside line seizure. The current setting is displayed.

Enter the following digit
1 =direct access on (spontaneous external seizure with internal)
0 =direct access off (external seizure with „0“ is on)

Exit programming

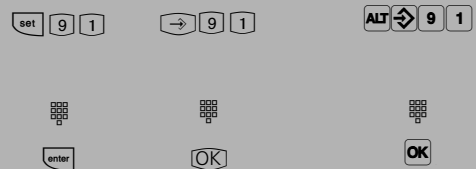


Allocate an Extension Number

You can set an extension number from your telephone.

Press SET 91.
The allocated extension numbers are displayed.
Enter the required extension number

Exit programming.



System Telephones

Overview of freely programmable Function Buttons

TAM on/off	To switch TAM module on or off of the ST 30 System Phone
Reject	Reject the ringing call. Caller will hear busy tone.
Call Waiting Deny	Switch Call Waiting on or off Special Function Buttons can be assigned Call Waiting Deny for 1 st Extension Number Call Waiting Deny for 2 nd Extension Number Call Waiting Deny for 1 st and 2 nd Extension Number
Do not Disturb (DND)	This will switch off the Tone Ringer Special Function Buttons can be assigned: -DND for Calls to the 1st Extension Number -DND for Calls to the 2nd Extension Number -DND for Calls to the 1st and 2nd Extension Number -DND for Extension Calls -DND for External Calls -DND for all Calls
Night Service (AVA 2)	To switch Night Service on or off Special Buttons can be assigned -Night Service separately switchable for each line -Night Service for all lines
Call Forwarding	Switch on or off Call Forwarding Feature Special Buttons can be assigned -Switch for each incoming line of the system separately -Switch for all incoming lines of the system together
Tannoy	Announcement via Public Address Amplifier connected to the Telephone System
Busy on Busy	Return Busy Tone to Caller if one Extension is Busy within Call Distribution Group. Special Buttons can be assigned -Busy on Busy for each Call Distribution Group switchable separately -Busy on Busy for call Call Distribution Group switchable together
Call by Call	To select Network Provider via LCR
Check In/ Check Out	Start / Stop the Call Cost at the touch of a button.
clr (clear)*	delete entries
Page (Tannoy)	Pageing Announcement to System Phones. Programmable function Button - Page specific Extensions.
Units	Display Call Cost
Call Capture	Malicious Call Identification via ISDN-Exchange
Remote functions	Sending of stored DTMF Tones (1..0 * #) for a remote interrogation of a Telephone Answering Machine (TAM)
Remote Answer	Possible to make the ringing extension go off hook from another phone.
Group Button	Log in and out of Groups and their features
Headset	To use a Headset (only Digital System Phones)
Call Pick Up	To Pick Up incoming calls. Special Function Button can be assigned to Pick Up internal and external calls from specific extensions.

System Telephones

Overview of freely programmable Function Buttons

Withhold	To withhold own number to be sent to a called party.
Internal Button	To Dial Extensions. Special function Button programmable: Call specific Extension
ISDN-Hold	To Hold an external call in the Telephone Exchange (only available on PTMP connection)
ISDN-Call Forwarding	To switch on or off the ISDN Call Forwarding feature.
Conference	To set up a Conference Call with Internal and or External calls.
Speaker Volume	To set the Speaker Volume Level for Handsfree or On Hook use.
LCR	To switch Least Cost Routing (LCR) on or off for your System Phone.
Call Split	To talk to more then one External Call in turn. (Switch between them)
Brokers Call*	To talk to one internal and one external call at a time and without connecting them.
Memory	To store an external number displayed in the LCD.
MSN-External	To transmit another of your MSN numbers other the the one allocated to the Extension making the call. A special Button can be assigned for this feature.
Relays	To switch a Relays. A special function Button can be assigned.
Reserve	To reserve a line should all lines be engaged at the time.
Inquiry Call*	To establish or set up an Enquiry Call, a connection or a Brokers Call
Telephone Book*	To select a number out of the System Telephone Book
Telephone Lock	To Lock the System Phone and activate pr-set Emergency and Direct Call numbers.
Appointment	To set or cancel a preset Appointment Time
Timer	To switch on or off a Time based function, such as Day-Night Service, Call Forwarding, Relays etc. Button can be assigned for this function. 10 Timers are available. Timers are form 0 to 9.
Doorphone an Lock Release	Function Button can be assigned to connect to the Doorphone. Another Button can be assigned to activate Lock Release.
Transfer	To transfer and connect an external call to an external call.
Diversion from (Follow me)	To divert calls from another extension to a selcted extension.
Diversion to	To divert calls to another Extension or Outside number.
Wake Up	Set or cancel wake up time.
Call Deflection	To forward an incoming call during the ringing sequence to another number without having answered this.
Destination Button	To Call a preset Telephone Number
- Public	- This number is stored in the Telephone System Memory
- Private	- This number is only stored in your telephone

Note: *These are fixed Buttons available on the System Phones.

System Telephones

Button Assignment

ST 25

ST 30

DECT 30

On delivery of the Phone System all programmable function Buttons of the Phones have a default setting which are the same on all System Telephones. These Buttons can be individual programmed to suit your specific needs. Each of the 10 Buttons can have a function allocated to it, which you can activate by just pressing the Button. In addition each of the function Buttons have a second level. To activate the second level you must press the Shift Key before pressing the function Button.

Default Setting:

Brokers Call Destination public	Units Destination public
Reject Destination public	Memory Destination public
Pick Up Destination public	Page Destination public
Conference Destination public	Transfer Destination public
Diversion to Destination public	Intern Destination public

Changing Button Assignment

SET 31: Initiates Programming.

Press the function Button you like to change (if necessary,press the "shift "Button to reach the second level)

The current function is displayed.

Enter the first letter of the function 's name,or,

by pressing the "next " Button,scroll down until the desired feature is displayed

or

By pressing the "shift "and the "next "Button, scroll up until the desired feature is displayed, i. e. wake up

Press Enter to confirm the selection and to program another Button otherwise

Press SET to end programming.



System Telephones

Button Assignment of Specific Functions

ST 25

ST 30

DECT 30

As described earlier (Change Button Assignment), start programming mode with SET 31 and select Button and required function.

„Do not disturb“ Function Button

Press ENTER:to confirm selection.
Enter the phone number to which Do Not Disturb should apply:
1 = First internal phone number
2 = Second internal phone number
1 & 2 = First and Second internal phone numbers
Press ENTER to confirm
Enter the call mode to which Do Not Disturb is to apply:
1 = internal calls
2 = external calls
1 & 2 = internal and external calls
Press SET to end programming.
You now can turn this feature on or off by just pressing the allocated Button.



Call Variant 2 (Night Service) Call Variant 3 (Call Forwarding)Function Button example based on Call Variant 2

Press ENTER:to confirm selection.

Press NEXT to select the Number or Name of SO Line to which this feature should apply. If this feature should apply to all lines or the line number is to be entered prior to activation then select All or General

Press SET to end programming



System Telephones

Announcement Button

Press ENTER:to confirm selection. Enter the Extension Number or Group Number who should receive the announcement. If you do not enter a number then this can be selected after pressing the Announcement Button. When pressing the Announcement Button and no Extension number is entered then all System Phone Extensions will hear the Announcement. Press SET to end programming

ST 25



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DECT 30



Remote Answering

Press ENTER:to confirm selection
Enter the Extension number for which this feature should be activated when pressing this Button. Press SET to end programming



Notes

Remote Answering can activate a particular Extension to go off Hook. For example: You could have a System Phone on your Desk but you also have a DECT 30 with Headset. A call arrives on your DECT 30. By pressing the Remote Answer Button on your Desk Phone your DECT 30 goes off Hook thus having answered the call. To use this feature external dialling must have been activated on the phone for which it will be used. Remote dialling can be used in a similar manner.

Group Button

Press ENTER:to confirm selection
Enter the required Group Number to which your Extension should be assigned.
Press SET to end programming



Call Pick Up

Press ENTER:to confirm selection
Enter the extension number of the extension from whom you like to pick up calls.
Press SET to end programming



System Telephones

Notes

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DECT 30

When using the functions Announcement and Call Pick up for more than one extension, then please form a Group and enter the Group number instead of the Extension. You can also assign the same of the first or second extension number to several extensions and form a Group this way. With reference to the Call Pick Up function, if you do not define an extension number, then you can only Pick Up external calls.

Intercom (Specific Extension)

Press ENTER:to confirm selection



Enter the two digit Extension number you like to call when pressing this Button.



Press SET to end programming.



Notes

If you assign the Extension of a Telephone Answering Machine, then you can Pick Up the call even after the Machine has answered it. This is providing that the Port is set to Answering machine. If no extension has been set on the Intercom Button, then you can dial any extension after this Button has been pressed.

MSN CO Button

Press ENTER:to confirm selection



Press NEXT to select line to which this Button should apply or General if you want to select the line after this function Button has been pressed.



Press SET to end programming



System Telephones

Relay

Press ENTER:to confirm selection

Enter the relay that you wish to switch with this Button (Extension Number of Relay)
Press SET to end programming

ST 25



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DECT 30



Note

If no Extension Number of the Relay has been set then the programmed Button will be allocated a 'General' status which means you must select a relay number after you have pressed this button.

Door Phone and Lock Release

Press ENTER:to confirm selection

Enter the door that you wish to operate with this Button (Extension Number of Doorphone)

Press SET to end programming



Notes

If no Extension Number has been assigned for the Doorphone Button, then you must enter the required Doorphone after pressing this Button.

System Telephones

Making a Call

To make an internal call, pick up receiver and dial the 2 digit extension number. Note: Each extensions can have two seperate numbers. Please contact your Telephone System Manager for an Internal Telephone Directory.

To make an exchange line call depends on how your telephone system is programmed. For users who's extension is set to 'Spontaneous line seizure with internal' just need to dial the the required telephone number. If you would like to make a call to another extension on your telephone system, then please prefix the extension number by #.

If a line access digit is set then you have to dial 0 (or 9 as the case may be) to get an outside line and then dial the telephone number required. If you would like to call another extension on your system, then just dial the two digit extension number.

If Call Forwarding is active on your line, then you will hear a special dial tone from the telephone exchange after you connect to the line. This will remind you that this or another feature may be set in the exchange

System Telephones

Make a Call

Spontaneous seizure with internal

Lift receiver, your extension number will be displayed.

ST 25

ST 30

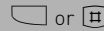
DECT 30



Calling an internal user

Press the 'Internal or Intercom' Button and dial the required extension number.

If programmed the name of the called extension is displayed.



Calling an external subscriber

Just dial the telephone number required. The telephone system automatically seizes an outside line.

If the telephone number is different from the one dialled then it will be displayed in the LCD. (This Service may have to be enabled from the network provider (COLP))



Calling an external number (Using access digit)

Lift receiver, your extension number will be displayed.



Calling an internal user

Dial the Extension Number only



Calling an external subscriber

Dial 0 (or 9 if applicable) to get a line



On hearing external dial tone dial required telephone number



System Telephones

External Access with MSN Button

Press the MSN CO Button

ST 25

ST 30

DECT 30

Press "next" to select the phone number or name of the line you wish to access.



Press "enter" to confirm selection.



Dial the required telephone number.



Pick up Receiver or press Handsfree Button the call will be connected.



External Access with special MSN Button

Lift receiver, your extension number will be displayed



Press the MSN /external Button to seize an outside line.
Line name and number may be displayed.



You now will hear external dial tone and can dial the number required.



Reserving an Outside Line (Call Back when free)

On requesting an outside line you will hear busy tone if all lines are engaged. You may now request for a line to be reserved. As soon as an outside line becomes free the system will phone you back. When picking up the receiver you will hear external dial tone and can dial your number.

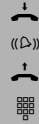
System Telephones

Reserving an Outside Line (Call Back when free)

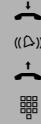
On hearing busy tone while dialling number press the enter Button to reserve an outside line.

Replace Receiver.
The Telephone System will call you back as soon as a line becomes available.
Pick up Receiver, you will hear external dial tone.
Dial number required.

ST 25



ST 30



DECT 30



Notes

Barred Calls – You will not be able to make calls for which your extension is call barred. If you try and make a call to a barred number, error tone will be returned to you.

DTMF signalling -Is possible to send DTFM Tones during a connection. This can also be done during an enquiry call, Brokers Call and Three Party Conference. Any digit from 0 – 9 including * and # can be transmitted.

Prepare for dialling -The receiver is on the hook. Enter the phone number.The number entered is displayed. The call will be connected as soon as the receiver is picked up or the handsfree button is pressed.

On Hook Dialling-Press the “loudspeaker” button and dial the phone number.Lift the receiver once the other party answers.

Handsfree -Instead of lifting the receiver, you can also press the “loudspeaker”button and have a handsfree telephone conversation. Handsfree mode is turned off when you pick up the receiver. To switch to handsfree again press the speaker button before you replace the handset. To end the call press the speaker button.

Call Monitor – Press the speaker button if you want other people in the room to hear your telephone conversation. People in the room can listen to the other party via the speaker while you continue your call as normal.

System Telephones

Accepting Incoming Calls

ST 25

ST 30

DECT 30

Due to a different ringing you are able to differentiate between extension -, incoming and doorphone calls. You can also see who is phoning you before you answer the call.

Internal call :The Display is showing the extension number and name.

External call :The first line of the display will show the caller 's number or the name if this is stored in the systems telephone book. Indication on which line the call came in is also given. If a particular line has been given a name ie. 'Any Company' then this will also be displayed. This will ensure that the call is always answered with the correct company name in a multi company set up. If more then one phone is ringing for an incoming call then the one to pick up first the receiver is connected to the call.



Call Waiting

You can receive a second call while already on a call. If this happens you will hear a Call Waiting tone in your receiver. You can accept or reject the waiting call. Example: You hear the external call waiting tone, the second line in the display shows the identity of the waiting caller. Accepting the second call:



First Option

replace the receiver to end the current call. Your telephone will ring for you to answer the waiting call.



«(D)»



«(D)»



«(D)»



System Telephones

Call Waiting

Second Option - press the Split Button. The first call is placed on hold while the waiting one is connected to you. You can alter between the calls by pressing the Split Button. You can also deflect the waiting call.

ST 25

ST 30

DECT 30



Rejecting the waiting call

Press the Reject Button. The caller will now hear busy tone if you are the only phone programmed to ring on an incoming call. If there are also other phones programmed to ring on an incoming call then the caller continues to hear the ringing tone. Continue your original call.



System Telephones

Call Transfer

ST 25

ST 30

DECT 30

You can transfer an incoming call to an extension or another external number. When transferring a call to an extension you can announce the caller before replacing the receiver.

Internal Transfer with announcement

If you are on an external call and would like to transfer this to an extension then please press the Internal Button or Recall Button and dial the required extensions wait until it answers, announce the call and replace the receiver.

If the extension does not answer or is busy then press the 'Split' or the 'ESC' Button.

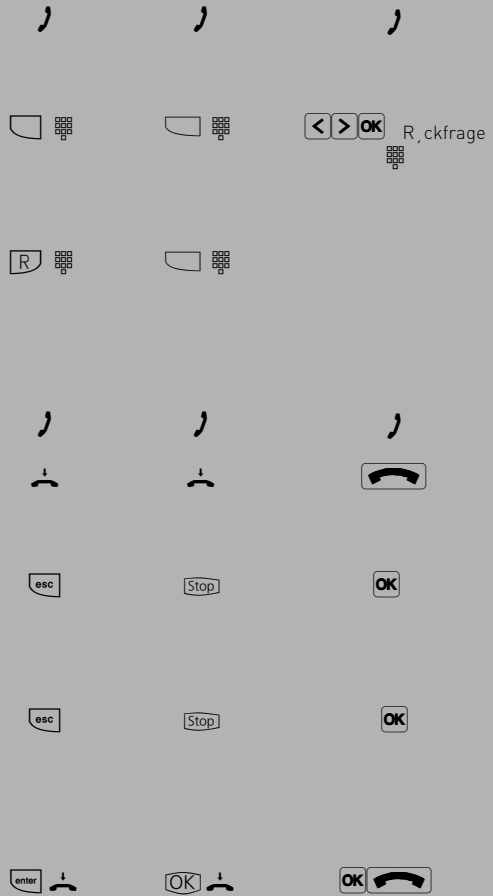
You may transfer the call to another extension if the original extension does not answer.

You may also park the call by pressing the Enter Button and replace the receiver.

You can retrieve the call from any other System Phone by picking up the Receiver and press the Enter or OK Button.

You can Camp on a transferred call. As soon as you hear the ringing tone, replace your receiver.

As soon as the called extension becomes free the call will be connected automatically.



System Telephones

Call Transfer without announcement

You are on an external call and would like to transfer this to another extension.

Press the Intern Button and dial the required extension number. The external call is placed automatically on hold and if so programmed will hear Music on Hold. Replace the receiver before the called extension answers.

The display of the called extension will show the telephone number and if applicable the name of the calling party.

The called extension is connected to the transferred call as soon as the receiver is picked up. You will receive an immediate call back if the called extension is busy or the Do Not Disturb feature is activated. The call will also be returned to you if the extension has not answered the call within 45 seconds. Ringing of your extension will be cancelled if you fail to answer the returned call within 60 seconds.

ST 25

ST 30

DECT 30



Enquiry



«(D)»

«(D)»

«(D)»

External Transfer

You are on a call to an external number and would like to transfer this call to another external number.

While speaking to the caller press the SPLIT or BROKERS CALL Button (The external call is put on hold and if so programmed will hear Music on Hold) dial the required telephone number and talk to the new party. You can talk in turn to each of the external parties by pressing the SPLIT or BROKRS CALL Button. To connect the two external calls press the transfer button (This must have been programmed) Replace your receiver.



Notes

External Call Transfer is only possible if one of these is an incoming call. This feature will use two outside lines. You will be charged for the outgoing part of the call.

System Telephones

Transfer an Outside Line

ST 25

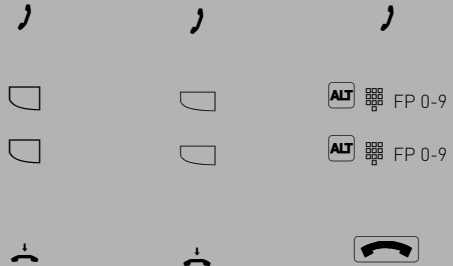
ST 30

DECT 30

You can give an extension an outside line. This is useful in cases where the extension is not allowed to make outside calls. The extension can phone the system operator who can transfer a line. Note you will transfer a line with your Class of Service.

Transfer an Outside Line

Extension calls you and asked for an outside line. Press the Brokers Call Button or the Split Button. You hear external dial tone now press the Transfer Button and replace the receiver. The calling extension can now make an outside call.

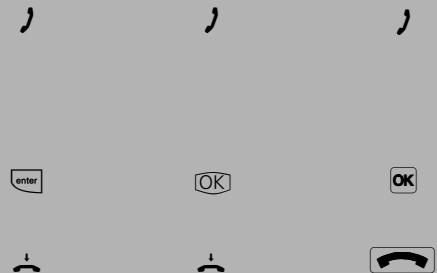


Call Waiting / Callback when free

An extension already on a call will hear a call waiting tone in their handset when you call it. If the called extension replaces the receiver then the waiting call will ring immediately at this extension. You can initiate Call Back when Free if the called extension does not accept your call.

Requesting Ring back when free

On hearing the busy tone when calling an extension, press the ENTER or OK Button. Call back when free has now been initiated. As soon as the busy extension becomes free your phone will ring as soon as you pick up your handset the other extension will be rung.



System Telephones

Callback

When Call Back when free is set, your phone will ring as soon as the other extension becomes free. Your display will read CALLBACK. As soon as you pick up your receiver the other extension is rung.

If the called extension does not answer then your call will be logged in the missed callers list.

ST 25

ST 30

DECT 30

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Notes

Please note the display messages in your System Phones, such as Call waiting, Ring back etc.

You cannot indicate call waiting to an extension

-for which Call Back when free has been set.

-whose port has been set to Answering machine, Fax, Modem, or mixed port mode.

-who has call waiting protection active

Call back -you can initiate several call backs in succession (for every extension).

You cannot initiate a callback for an extension

-for which another extension has already set call back

-who has activated Do Not Disturb (DND),

-whose port has been set to Answering machine, Fax, Modem, or mixed port mode.

-who has call waiting protection set

Callback to an extension with a Standard Phone:

-If you do not answer the call the the call back feature will be cancelled after 60 seconds.

Callback in General: Call back has been set:

-Call back will ring your extension even if Do Not Disturb has been set

-If call diversion has been set, then the Call back will not be diverted.

Power failure: All set Call Backs are cancelled.

System Telephones

Call Waiting

ST 25

ST 30

DECT 30

A call waiting to be answered can be signalled with the CALL WAITING TONE whilst already on a call. This tone is an audible sound indicated in your handset. This feature can be switched on or off. If this feature is set to off, then callers will hear the busy tone when your extension is in use.

Call Waiting on/off

Press SET and the CALL WAITING DENY button or Press SET 14.



Select the Primary, Secondary or both Extension Numbers as indicated in the display. The current setting is indicated.



Press ENTER or OK to make selection



Press 1 or 2 to switch on or off
Press SET to end programming



Call Waiting on/off (Feature Button)

The receiver is on the hook.
Press the Call Waiting Deny Button to switch this feature on or off



FP 0-9

System Telephones

Call Pick Up

ST 25

ST 30

DECT 30

Another telephone rings with an external or an internal ringing tone. You can pick up this call on your telephone. You can also pick the call up if the answering machine has already answered it.

Call Pick Up (External)

Another telephone rings. The x in the display flashes. You wish to pick up the external call.

Lift the receiver. Press the "enter" or OK button. You are now connected to the caller.

((D))

((D))

((D))



Call Pick Up (Function Button)

You can also pick up a call by pressing the associated Feature Button, if programmed.

((D))

((D))

((D))



Call Pick Up (from Answering machine)

To Pick Up a call which has already been answered by the answering machine. Press Internal Button and dial the extension number of the Answering machine.

)

)

)



Notes

With a general Pick Up function button (see Function Button assignment), you can only pick up external calls from all extensions. With a special Pick Up function button (with selected extension), you can pick up external and internal calls from the defined extensions. You can program the user group by pressing SET and Pick Up Button. You cannot pick up Call Backs and Returned Calls. You can only pick up a call from an answering machine if the port has been set to answering machine.

System Telephones

Call Log

ST 25

ST 30

DECT 30

If a call is not answered, then the details of the caller are entered in the Call Log. Details such as Date, Time, Telephone Number and the number of times called are recorded. If the calling number matches an entry in the Phone Book, then the Phone Book entry ie the stored name is displayed instead of the number. Internal calls can enter themselves in the Call Log.

Up to a maximum of 10 entries can be made, if more entries are received then the oldest one will be deleted. A stored number will only appear once in the Call Log. If the caller rings more than once then the time of the last call is recorded in addition to the number of times called.

Entries in the Call Log are stored until the call is returned or until the entry is deleted. Calls can be returned from the Call Log by the push of a button. If a call is returned from the Call Log, then the entry will be deleted automatically from the list. The Call Log can be switched on or off separately for external and or internal calls.

Call Log on/off

Press SET 2 *

Select external or internal

The current setting is displayed.

Make selection:

ST25

0 = external

1 = on (All calls are logged)

2 = with name only (only calls which are listed in the Phone Book will be logged)

ST30

1 = off

2 = switch on (All calls are logged)

3 = with name only (only calls which are listed in the Phone Book will be logged)

Press SET to end programming



System Telephones

Display Call Log

The display of the ST25 shows "!" in addition the red LED is flashing to indicate a missed call. (ST 30 mail button is flashing, DECT 30 LED is flashing)

There will be at least one entry in the list.

To display the first entry press "enter" (or Mail Button at the ST 30) The LCD will now display the telephone number, date and time of the latest call

or
the name from the Phone Book, date and time of the latest call

or
notification to call an extension with date and time of the latest call.

Further entries can be displayed by pressing the NEXT button. The LED continues flashing until all entries have been displayed after which the LED will stay illuminated until calls are returned or deleted.

On lifting the receiver you will be connected to the number displayed in the LCD. The entry will be removed from the list if the call is answered or remain there if no answer is received. To delete an entry display the number and press CLEAR.

ST 25

ST 30

DECT 30



Browse



Dial



Delete



Notes

The Call Log Display is cancelled when pressing "esc".

The Call Log will display numbers with the STD Code.

It may not be possible to return a call from the Call Log if your extension is call barred.

The Call Log will not be stored in the event of a power failure.

System Telephones

Do Not Disturb (Setting on/ off)

ST 25

ST 30

DECT 30

You can set Do Not Disturb for the first or second internal number of your extension and also for internal and or external calls. If an extension is ringing you while this feature is set then busy tone will be returned. External calls will not ring your phone.

Do Not Disturb (on)

With the receiver on hook. Press the DO NOT DISTURB Button. The red LED will light up and the LCD will display for 20 seconds the following message: DO NOT DISTURB ON.



Do Not Disturb (off)

With the receiver on hook. Press the DO NOT DISTURB Button. The red LED will go off and the LCD will display for 20 seconds the following message: DO NOT DISTURB OFF



Programming the Do Not Disturb function

PRESS Set 12

The LCD will display if a first and second number have been allocated to your extension.

(Primary & Secondary Number)

"1": Do Not Disturb for first internal number and/or

"2": Do Not Disturb for second internal number. Example: "1" and "2"

Press "enter" to confirm. Select if Do Not Disturb is to apply to internal and/or external calls.

"1": Do Not Disturb for internal calls and/or

"2": Do Not Disturb for external calls

Example: "1" Do Not Disturb for internal calls only

Press SET to activate the feature.

This feature can now be activated for the selection made in this program at the push of a button. ie press the Do Not Disturb Button to toggle between on or off.



System Telephones

Notes

ST 25

ST 30

DECT 30

If Do Not Disturb is activated:

-
- External Calls are indicated in the Display only but can be picked up.
- You can still make calls. When you pick up the receiver, the special dial tone will remind you that Do Not Disturb is set to on.
- Your telephone will still ring for callback, wake up - and appointment calls.

You can program several special DO NOT DISTURB function Buttons. You can program a , DO NOT DISTURB function button for your first, second or both first and second internal numbers. In addition you can set this function for internal, external or all calls. (See allocation of function buttons)

Switching between Day and Night Service

Which extension should ring on an incoming call is set in the 'Call Variant' under Day/ Night Service. If several extensions ring on an incoming call then the one who picks up the receiver first will have answered the call.

An incoming call can ring different extensions depending if the system is running under Day or Night Service.

Night Service can be set for each incoming line separately.

Day - Night Service can be activated from any extension on the system or remotely. Please refer to the operating instruction for an analogue phone on how to switch Day- Night Service from an external phone.

Night Service on/ off

Press SET and press the Night Service Button or Press SET 11 to switch to Night Service.

Press NEXT to select the line or name to which Night Service should apply. Press ALL if you want to activate Night Service for all incoming lines.

Select on or off.

Press SET to end programming



System Telephones

Night Service on/ off via Special Function Button

If a function button and line has been assigned permanently to your extension, then you can switch this line to Night Service by simply pressing the "AVA 2" (Night Button)

With the receiver on the hook. Press the "AVA 2"(Night)Button. Night Service is now active for this line. Press this Button again to go back to Day Service.

To remind you of this setting a Half Moon Symbol and the "!" is displayed on your phone. To switch to Day Service press the Night Button again and the Night Service Symbol and "!" will extinguish. Your line is now back in Day Service.


ST 25



ST 30

DECT 30



Notes

The "!" may be displayed for more than one setting of your system. The settings can be displayed on continued pressing of .

 will indicate for which line the service is active. The displayed setting can be switched off with . If Night Service has been set up for all lines then switching this service on or off will also cause the Doorphone to be switched to the same setting.

System Telephones

Switching Call Forwarding (Extension Call Forwarding) on/off

ST 25

ST 30

DECT 30

With this setting incoming calls can be forwarded to alternative extensions if:

- after a preset number of rings the call remains unanswered.
 - Immediately if the telephone is busy and call waiting indication is not possible.
- This feature can be set at any time from any extension or remotely for any exchange line connected to your system.

Please refer to your user manual in the section 'Analogue Terminals' on how to activate this feature remotely.

The Call Forwarding is set for each extension in the programming table of the Call Forward section.

Call Forwarding (on/off)

Press SET and the Call Forwarding Button (Call Variant 3)

or

Press SET 19 to activate Call Forwarding

Select the external number by pressing NEXT

or

Select the name of the line

or

ALL if you want to set/unset call forwarding for ALL lines.

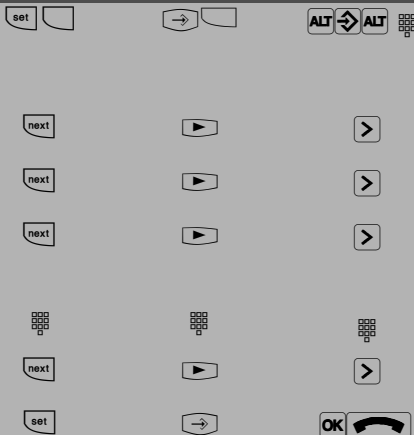
"1 ":Call forwarding on

"0 ":Call forwarding off

Press NEXT to set another forward

or

Press SET to end programming



System Telephones

Call Forwarding (on/off) with Special Function Button

If a telephone number has been permanently assigned to your extension on Set Up of the AVA 3 function button, (Call Forward) then you can switch this feature on or off at the push of a button.

With the receiver on hook.
Press the "AVA 3" (Call Forward Button)
Call Forward is now active and will be indicated with the "!" in the display of your phone.

This button has a toggle function which means if you press it again
Call Forward will be switched off and the "!" is now not displayed.

ST 25

ST 30

DECT 30



System Telephones

Call Deflection

Forwarding a call during the ringing phase

ST 25

ST 30

DECT 30

Providing this feature is available from your network provider you can forward an incoming call to another extension or outside number whilst ringing. This is useful if you do not wish to answer a particular call.

Call Deflection

An incoming call arrives and the number is displayed on your phone.

«(D)»

«(D)»

«(D)»

Press the "CALL DEFLECTION BUTTON"
You can forward the call to an extension or an outside number.



Dial the number you wish to forward the call to.



Press "ENTER" the call is now forwarded.
You can choose a number from your Phonebook or Speed Dial Button.



Reject a call during the ringing phase

Once your phone rings, press the REJECT Button. Your phone stops ringing, if you are the only phone programmed to ring then the caller will get busy tone returned. If other phones are programmed to ring then the caller continues to hear ringing tone.



Call Forwarding for an extension on a system connection (PTP)

With this feature incoming calls of an extension are diverted during the ringing phase. (Partial Rerouting). Providing that this feature is available from the network provider and that the checkbox is ticked in the program section SO Bus settings. Calls are diverted via the public exchange without engaging the second B Channel.

System Telephones

Announcement

ST 25

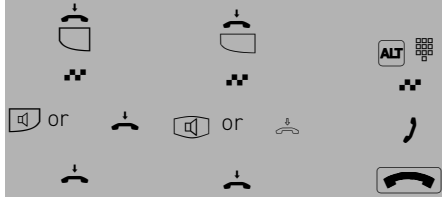
ST 30

DECT 30

You can make an announcement via the telephone system either via a connected PA System or through system telephones.

Announcement (Paging)

With the receiver on hook.
Press the ANNOUNCEMENT Button.
An acknowledgement tone sounds.
Make your announcement either in the handsfree mode or by using the handset. Replace the handset or press the Speaker Button to end announcement.



Auto Dialling (Hotline)

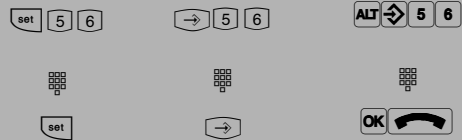
With this feature a pre-set number is dialled within 10 seconds after lifting the receiver. Calls can still be made normally providing dialling commences within 10 seconds.

Storing a Number for Auto Dialling

Press SET 56

Enter the external phone number

Press SET to end programming



Notes

Please check your setting after having programmed this feature. Lift the receiver and wait till the programmed number is dialled. Check that you are connected to the correct number.

System Telephones

Switch Auto Dialling on/ off

Press SET 1 *

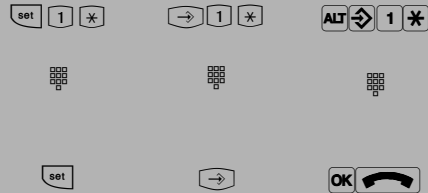
Press 1 for off
or
Press 2 for on

Press SET to end programming

ST 25

ST 30

DECT 30



Notes

If the called party is busy, the telephone system attempts to redial the external phone number every 10 seconds. It cancels automatic dialling after 12 attempts.

The Auto Dial function has preference above all other connections. This means should all lines be busy then the Auto Dial feature will force release a line in order to establish a connection.

If you hear the error tone when activating AUTO DIALLING, then no external phone number has been programmed.

Busy on Busy

This feature is used in the following situation. If an incoming line is programmed to ring several phones, then each time a new call arrives the free extensions within the group will ring. If, however, for some reason you are the only one in the office and are already on a call then the next incoming call would cause the free extensions to ring. It may not be possible to answer the new call in time and therefore the caller may get the impression that no one is in the office. If Busy on Busy is set on the other hand than any extension within the ringing group who is on a call will cause for a new caller to hear busy tone. Note: This will not place restrictions on outgoing calls.

Busy on Busy - Programming and Switching

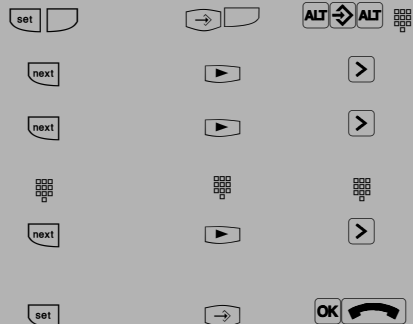
Press SET and Press the BUSY on BUSY Button
or Press SET 1 #

Select the line or name

"1": Busy on busy on

"0": Busy on busy off

Press NEXT to select another number
or
Press SET to end programming



System Telephones

Busy on Busy on/off

ST 25

ST 30

DECT 30

The receiver is on hook. By pressing the BUSY ON BUSY Button you switch this feature on or off.



Notes

An ISDN terminal that is connected in parallel to the telephone system on a point-to-multipoint line and to which the same number as the system has been assigned will always ring, regardless if BUSY ON BUSY is active or not.

Voice Message Announcement

You can use your telephone system like an intercom, i.e. you can make a voice message announcement to other system telephones connected to the system in the form of a:

- Announcement to one, a group or all system telephones
- Announcement to a defined group of system telephones (see "Group formation").

The speakers of the system telephones receiving the announcement are automatically switched on, unless they are busy on another call.

You can also make a voice message announcement out of an external call.

A voice message is only possible if you have programmed a function button as VOICE MESSAGE (Announcement) see also function button assignment.

Voice Message to System Phones

With the receiver on hook.
Press the ANNOUNCEMENT BUTTON
You now can select an extension number or a group number. If no number is selected all system phones will receive your announcement.
Press the ENTER button and make your announcement either using the receiver or in handsfree mode.
If at least one of the system phones is free to receive your announcement then you and the recipient will hear the acknowledgement tone.
If an extension picks up the receiver during an announcement then you will be connected to this extension and the announcement mode will be cleared.
After your announcement, replace the receiver or press the SPEAKER button.



or



or



System Telephones

Voice Message to a Group

With the receiver on hook.

Press the VOICE MESSAGE Button.

If at least one of the system telephones belonging to the group is free, you and the voice message participants hear the acknowledgement tone. You can make your voice announcement in the hands free mode or you can use the receiver.

If an extension picks up the receiver during an announcement then you will be connected to this extension and the announcement mode will be cleared. After your announcement, replace the receiver or press the SPEAKER button.

ST 25



ST 30



DECT 30



Voice Message out of an External Call

Whilst on an outside call you can page a person using the Voice Message Announcement feature.

During the call press the VOICE MESSAGE Button. Dial the extension, group or none for all.

Press ENTER If at least one system phone is free to receive your announcement, then you and the recipient(s) hear an acknowledgement tone.

Make your announcement.

If the paged persons picks up the receiver then he will be connected to your extension and the Voice Announcement Mode is cleared.

Replace the receiver if you want to transfer the call.

You can also replace the receiver before the other extension has picked up the handset. Just replace your receiver after your announcement. The call will be placed on hold for all extensions within the group.

As soon as any extension within the group picks up the receiver the call is connected. The call will be returned to you if it remained unanswered within 4 minutes.



System Telephones

On Hearing an Announcement

ST 25

ST 30

On hearing the announcement

Press the SPEAKER Button or lift the receiver. You will be automatically connected to the announcing extension. If you are the only extension to which this announcement is directed and providing your phone is programmed for automatic microphone activation, then you can speak to the announcing extension without the need to pick up the receiver or pressing the speaker button. To end the call press the speaker button or replace the receiver.



Note

An announcement can only be made to system phones. At least one of the system phones must be free. If an announcement is directed to a single extension who has automatic microphone activation enabled, then this extension can speak direct to the announcing extension without the need to press the speaker button or to lift the receiver. The speaker volume can be adjusted by altering the handfree volume setting. You can store an extension number or group number by pressing SET and the ANNOUNCEMENT button. To clear the entry press SET and the ANNOUNCEMENT button and press clear.

System Telephones

To place a Call on Hold

ST 25

ST 30

DECT 30

You can put a call on hold in order to make an enquiry call via the ISDN exchange, however this is only possible if your line is a Point-To-Multipoint connection. Note: This feature may not be available from your network provider. (not available from network providers in the UK) This feature would allow to make an enquiry call to another outside number even though no line (B Channel) is available. The call is put on hold in the exchange therefore releasing a line to be used to set up another call. You then can alternate between the calls by using the SPLIT button.

Place a Call on Hold (may not be available from network provider)

You are on an outside call (Point-to-Multipoint only) Press the ISDN HOLD Button
You hear external dial tone

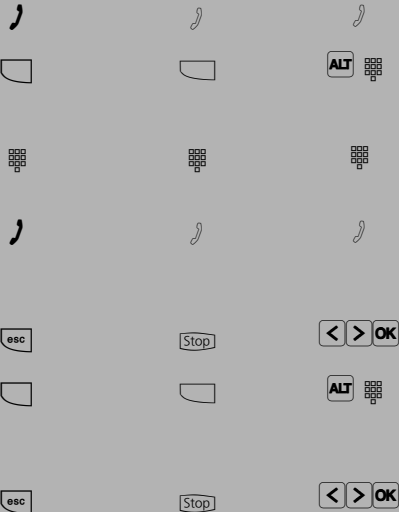
Dial the required telephone number
The display on your phone will show the current call connected to

Press the ESC button if the other party does not answer and you want to return to your original call

OR

Press the ISDN HOLD Button to switch between calls.

On pressing the ESC Button you will clear the current call and be returned to the other call.



Note

A call cannot be placed on hold in the exchange if you hear the error tone. You are connected back to the other call by pressing the ESC button.

When you replace your receiver, you will clear both calls, the current and the holding one. Call charges are incurred for the current call and for the one on hold.

System Telephones

Remote Dial Functions

ST 25

ST 30

DECT 30

With this feature it is possible to dial a number on behalf of another extension. (i. e. the Secretary for the Manager) This feature must be enabled on the extension for which calls can be made. At the time system phones only can set up calls for other extensions.

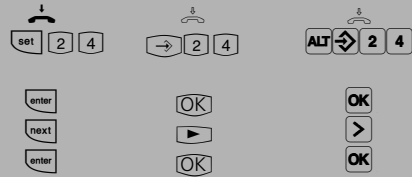
The following options are available:

- Remote Dial all (every extension can set up a call for you)
- Remote Dial off
- Remote Dial allowed from extension/group
- Remote Dial allowed via CTI
- Remote Dial switches system telephone to handsfree and dials number (system phones only).

Remote Dialing

With the handset on hook.
Select the Remote Dial Menu

with NEXT select the remote dial required
(off, Extn number, all external)
Press ENTER
Activate selection by pressing ENTER

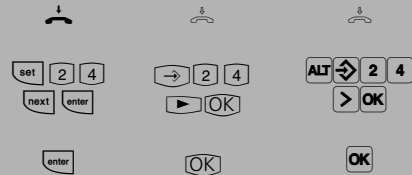


CTI Dialling

With the handset on hook.

Select the Remote Dial Menu
Select the item CTI dialling.

Select the desired setting and activate with **OK**.



Automatic Call and Automatic Mike

Please proceed exactly as for CTI dialling for the items Automatic Call & Automatic Mike.

System Telephones

Malicious Call Identification (MCID)

ST 25

ST 30

DECT 30

This feature will have to be supplied by your network provider.
The ISDN exchange will store the callers number and the date and time of the call.
This trace can be activated during the call or after the caller has hung up but must be activated before you terminate the call.

Tracing a Call

Nuisance or Malicious calls can be traced

On receiving such call

Press the CALL TRACING Button
You will hear an acknowledgement tone from the exchange.
Replace the receiver.



Note

Press the ESC button if you want to continue the call after the trace has been activated.
Until you return to the caller he will hear Music on Hold if applicable.
You hear the error tone if:
-Malicious Call Identification has not been made available by your network operator
OR
-when the caller could not be identified by the telephone exchange.

System Telephones

Conference

ST 25

ST 30

DECT 30

Three Party Conference via your Phone System

You can hold a three party conference with analogue or digital extensions of the system.

Or with one external call and one extension

Or with two external calls. Note you will use 2 lines (B Channels)

Three Party Conference via the ISDN Telephone Exchange (PTMP lines only)

Note this service is a feature of the Telephone Exchange and may not be available.

To establish a three party conference via the exchange you must first establish the call with the first party. Then hold the call in the exchange to establish an enquiry call on the same line to the second party after which you will switch to a three party conference.

Three Party Conference (with two other extensions)

Establish a call to an extension during the call

Press the INTERNAL Button or the R (Recall) Button

Dial the second extension number

During this call press the CONFERENCE Button

All extensions will hear the confirmation tone and the conference call is established.

You can split an existing conference call by pressing the SPLIT Button and talk to each extension in turn.



System Telephones

Internal - External Three Party Conference

Whilst on an external call
Press the SPLIT Button
Dial the required telephone number
Press the conference button once the called party has answered. You hear the acknowledgement tone, the three party conference call is established.

To split the conference press the SPLIT button and talk to each line in turn. If you press TRANSFER whilst the call is in this condition you will connect the two parties whilst you will be disconnected.

ST 25

ST 30

DECT 30



ISDN Three Party Conference

(Only applicable to PTMP lines)

Whilst on a call press the ISDN Hold button

You hear external dial tone.
Dial the new number required.

Your first caller is put on hold and cannot overhear the conversation.

If the new call is answered press the CONFERENCE button
your Three Party Conference has been established.

If the new called number fails to answer, then press ESC you will now be connected to the original call. Your Three Party Conference will be cleared once you replace your receiver.



Notes

Three Party Conference via the Telephone System.

An incoming – or doorphone call will be signalled to the conference with the call waiting tone if the called extension is part of the conference.

The Pick Up of a call is only possible by the extension who established the conference (Conference Manager) by pressing the SPLIT button and selecting the call with the next button. The other members of the conference are put on hold until the conference manager has finished the enquiry call by pressing the ESC button after which he can re-establish the conference with the SPLIT and the CONFERENCE button. If an extension replaces the receiver then that extension is disconnected from the conference and can only be re invited via the conference manager. The conference is cancelled as soon as the conference manager replaces his receiver.

Conference circuit via the ISDN exchange

Call charges are incurred for every participant of the conference. If you hear an error tone instead of an exchange dial tone, then the holding of a call in the exchange is not possible. Press the ESC button to return to the original call. The Three Party Conference is not possible if you hear the error tone after pressing the CONFERENCE button. Press the ESC button to reconnect to the original call. Press the CONFERENCE button if you wish to clear an established ISDN Three Party Conference. You are connected to the party that you last invited into the conference .The first called party is put on hold.

System Telephones

Least Cost Routing (LCR)

ST 25

ST 30

DECT 30

This feature will make use of various network providers offering cheap call rates. Calls are routed depending on the STD Code dialled which is also dependent on the time and day of the week. If it is not possible to connect to the relevant provider after a preset number of attempts then the system will try to route the call via a preset alternative provider. (Fallback)

The access code of the relevant provider will be prefixed by the system to the number dialled.

The Least Cost Routing can cater for up to 8 network providers in 8 time slots depending on time of day and day of week. Least Cost Routing can be programmed with TK-LCR on your PC. Least Cost Routing can be switched on or off on your extension.

Switching Least Cost Routing on/off

Press the LCR function button to switch this feature on or off for your extension.



Notes

You can still select which network provider is used for your call despite LCR being enabled.

- Simply prefix your number with the network access code
- You can also select the network provider with the function button CALL BY CALL on a system phone. (see also Network access code -Call by Call).

The network access code for the network operator is only stored in the last number redial memory if this has been dialled manually before.

Important! Not all ISDN features described may be available. Please check with your network provider for availability.

System Telephones

Call Split (Brokers Call) switching between calls

ST 25

ST 30

DECT 30

Brokers Call is a feature whereby you can talk to one internal and one external call in turn without connecting them. Call Split is the same feature but it is possible to do this between external calls. The waiting caller will hear Music on Hold if applicable.

Call Split

Whilst on a call the callers details are displayed in the LCD if another call arrives then this will be indicated by the call waiting tone and the new callers details are displayed in the LCD. If you want to answer the new call and put the current one on hold press the SPLIT button. The active call is displayed in the first line and the waiting or call on hold is displayed in the second line of the LCD. Should another call arrive then again as before the new callers details are displayed in the first line of the LCD. By pressing the SPLIT button you are connected to the new caller. Pressing the SPLIT button in succession will connect you to each waiting caller in turn.

Display calls on hold during a conversation

(Not available for all Countries)

Browse with the NEXT button

1st line LCD Number / Name or External

2nd line LCD Number / or Name of line

H: Call on Hold

R: New Incoming Call

V: Connected or active Call

To switch to call displayed

Press SPLIT



Notes

Some function buttons of the system phones may refer to the above described feature as Brokers Call.

Call charges will be incurred for all outgoing calls even whilst on hold. To end a current call, press the "esc" key. You are automatically connected to the next call waiting.

If you replace the receiver:

-you clear all extension calls,

-you clear the current external call,

-you receive a callback if an external call is still on hold.

System Telephones

Storing the Last Number (incoming or outgoing)

ST 25

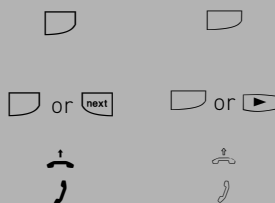
ST 30

DECT 30

The last five numbers incoming or outgoing will be stored in your phone. Any of these five numbers can be called back or transferred to your own personal phone memory. Note in order to perform this function you must have a button programmed on your phone called 'Clipboard' to recall the numbers and a button 'Dest. Private' to store the number into.

Displaying and Calling a number

Press the button CLIPBOARD the first number will be displayed. Continue to press CLIPBOARD or NEXT until the desired number is displayed. Lift the receiver the number displayed will now be dialed.



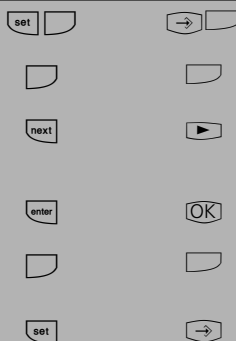
Display and Store in Phone Memory

Press SET + DEST. PRIVATE button
A previously stored number if applicable will now be displayed.

Press the CLIPBOARD button until the desired number is displayed

Press the DEST.PRIVATE button followed by the ENTER or OK button
enter a name if required press ENTER or OK

Press SET to leave programming



System Telephones

Carrier Access Code – on a Call by Call basis

ST 25

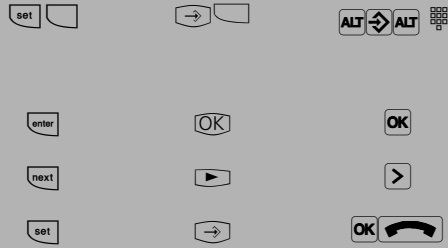
ST 30

DECT 30

You can select an alternative network provider on a Call by Call basis with an assigned function button. Press the function button to select a provider and dial the required telephone number. You can call numbers from your own memory, central dialling (Phone Book) or last number redial. To use this feature you must have a network provider stored in the feature button called CALL BY CALL. You can select a network provider from the LCR table to assign this to the CALL BY CALL button.

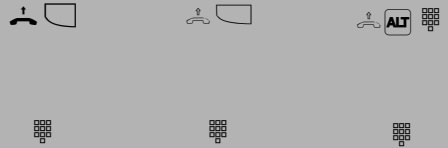
Storing the network provider for the 'Call by Call' Button

Start programming by pressing SET followed by the CALL BY CALL function button. (for second level press shift first)
 A already stored provider will be displayed press NEXT to select another provider.
 Press SET to confirm selection and end programming.



Dialling with Call by Call Button

Lift the receiver and press the "Call by Call" button. The stored network access code is displayed and dialled.
 Dial the required telephone number (STD + Number)
 or select the number by pressing a Speed Dial Button or Last Number Redial.



Notes

The network access code which has been dialled with the Call By Call button will not be stored in the last number redial.

System Telephones

Parking a Call

ST 25

ST 30

DECT 30

You can park an external call in the system and retrieve this from another extension. The parked call will engage the line (B Channel). The parked caller will hear Music on hold (if enabled). Calls parked will recall your extension within 4 minutes if it has not been retrieved.

Calls can also be parked or retrieved with an index number. This feature is useful if several calls are parked at any time.

This function can be activated in the configuration section 'other functions' or via a program entry on the phone.

Parking / Retrieving a Call

If you would like to park your call press ENTER or OK.



Replace your handset. x will flash in the display.



To retrieve the call



Pick up the handset and press ENTER or OK, the call is reconnected,



Parking/ / Retrieving a Call with Index Number

If you would like to park your call press ENTER or OK followed by a 2 digit index number from 00 to 99. Replace your handset, x will flash i the display.



To retrieve the call



Pick up the handset and press ENTER or OK followed by the 2 digit index number, the call is reconnected.



System Telephones

Notes

ST 25

ST 30

DECT 30

You can retrieve a parked call from any telephone.

On the standard phone dial *22 to retrieve a parked call. If several calls are parked then the first one will be returned. Outgoing call incur charges when parked.

Baby Listening / Room Monitor

Any phone can be used for this feature (system- or standard phone) The phone set to Room Monitor (Baby Listening) can be called from any telephone either internal or external. A system phone when called will switch on the microphone automatically. This feature must be enabled for the phone intended to be used as a monitor. You can select whether or not a warning tone sounds when listening into a room. The monitor phone can be called from any phone either internal or external. Please refer to the instruction manual chapter 'Room monitoring from an analogue phone' on how to access this feature from an external phone.

Set Up Room Monitor

Press SET 10 to set up the room monitor extension. The current setting is displayed.

"1": Room monitor on

"0": Room monitor off

Press "ENTER" to confirm.

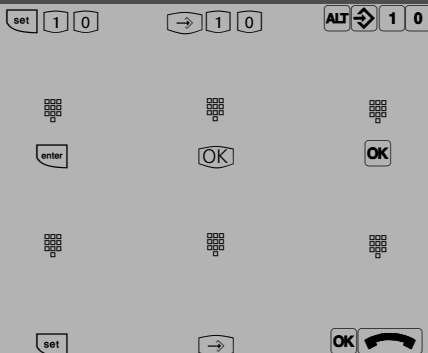
Select whether or not a tone should sound before the room monitor feature is activated.

"1": Audible warning on

"0": Audible warning off

The green LED flashes when room monitoring is active.

Press SET to leave programming



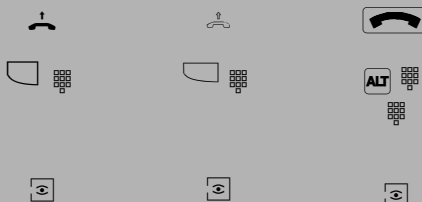
Calling the Room Monitor Extension

Pick up the receiver

Dial the required monitor extension

Listen into the room.

Please note that you can also be heard when listening into a room.



System Telephones

Switching Relays

ST 25

ST 30

DECT 30

The telephone system has two potential free relays R1 and R2 which can be switched remotely. You could activate a bell or another door opener.
If no door phone TFE 1 (FTZ 123 D12) is connected to the telephone system then the relay contacts T0 (relay R3) and TS (relay R4) can also be used for other functions.

Relay on/off

Press the RELAY button to turn a relay on/off.

Select a relay with NEXT

"1": Selected relay on

"0": Selected relay off

Return to the standard display by pressing the "esc".



Relay on/off with Special Function Button

Turn the relay on or off with the "RELAY" button. If the relay is a pulse relay, then the second line of the display remains unchanged.

The displayed message will disappear after a few seconds or return immediately by pressing "ESC".



System Telephones

Enquiry

ST 25

ST 30

DECT 30

You can place your current call on hold, while you talk to an extension or another external call. The caller on hold will hear Music on Hold and can not overhear your conversation. Whilst on an enquiry call you can use all functions such as telephone book, paging etc.

Telephone Enquiry

Whilst having a telephone conversation

Internal Enquiry

Press the internal button or press the R button and dial the internal phone number

External Enquiry

Press the SPLIT or BROKERS CALL button and dial an external telephone number. Whilst talking to the new call the call on hold cannot hear your conversation. To return to the waiting call: Press the ESC button the enquiry call is cleared or if you press the SPLIT (Brokers Call) button the enquiry call is put on hold.



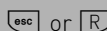
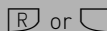
Enquiry (Mute)

To talk to another person in the room without the caller being able to hear:

(internal or external calls)

Press the R or the internal button. Your current call is put on hold. You now can talk to someone in the room without the caller hearing this.

To return to the caller on the phone press the R or ESC button.



System Telephones

Automatic Call Back

ST 25

ST 30

DECT 30

You can set up an automatic call back if the number you are calling is busy. This feature is only available to subscribers of ISDN lines. Your phone will ring as soon as the called party replaces the receiver. The other party will be called automatically as soon as you pick up your receiver.

Set Up Call Back

On hearing the busy tone

press ENTER, Call Back has now been initiated. Replace your receiver.



Receiving a Call Back

Your telephone rings as soon as the other party is free again. The display shows the callback.

Lift the receiver. The other party is automatically called back.

Should the called number fail to answer then you details will be entered in the Call Log

as soon as you replace your receiver.



H



Notes

If your display reads:

```
Number busy  
replace receiver
```

then it will not be possible to be called back from the busy number. The feature Call Back on busy is not available from the telephone exchange. The feature will be cancelled if you do not answer the returned call within 20 seconds.

Call Back will be cancelled if the Call Back feature is completed or failed to connect the call after 45 minutes.

System Telephones

Viewing Extension Status

ST 25

ST 30

DECT 30

It may also be possible that several functions are active, this will be indicated by the red flashing LED and the '!'.
You can view the status and or messages in order of succession.

Scrolling through Display Messages

The receiver is on hook. You will see the the symbol '!' to indicate an entry. The date will be displayed.
Call Log will be displayed. There is at least one entry in the Call Log.

To see further entries press next, if applicable you will see the next entry.
Browse by pressing the next button.
Phone settings such as 'Diversion' may be indicated.

Press enter to read. Display will return to default after 20 seconds.

Press ESC to return to default immediately.



Notes

By pressing , you can view the display in succession. You also can display the telephone number to which setting applies by pressing . If applicable, you can press to read out the phone number to which the setting applies. Should you receive a call during the display of features, then the callers number will be displayed and your phone can be operated as usual.

Pop Up Menu (Status Display)

Please take note of the telephones display which will guide you through all function settings. If status display is enabled (Default Setting) then the following call handling functions will be offered in the 4th line of the display.

Answer, Park Call, Retrieve, Pick Up, Call Split, Transfer, Call Back, Conference, Enquiry, Reject, Disconnect, Call Deflect to, Back, End, Door opener.

The system will offer the most common function, but others may be displayed by using the arrow buttons . The displayed function will be carried out once the OK button is pressed.

System Telephones

Switch Pop Up Menu on/off

Enter programming mode.
 Select desired function with NEXT and confirm with OK .
 Press SET to end programming.
 On the DECT 30 the Pop Up menu is always set to on.



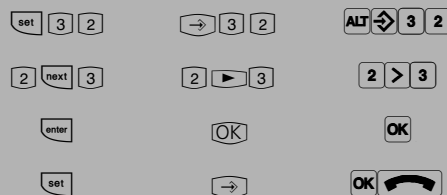
Set Extension Names

You can set a name for your telephone extension.
 Your name will then appears in the display of other system phones you are calling.

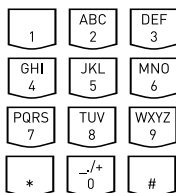
Enter programming mode.

Enter name with the dial keypad (see notes).
 Confirm entry by pressing ENTER.

End programming by pressing SET.



Notes



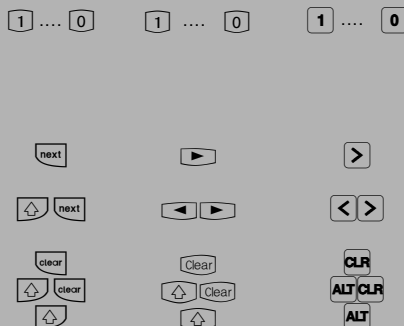
Enter a name on the keypad:
 If necessary,press several times Example:

2 =A
 22 =B
 222 =C

Press NEXT to enter the next field or wait for the cursor to move over automatically.
 Previous character can be overwritten.

Flashing character can be deleted, or delete complete entry.

With (↕) change to upper or lower case.
 ie ABC or abc.



System Telephones

Storing Phonebook Numbers (Central Dialling Memory)

ST 25

ST 30

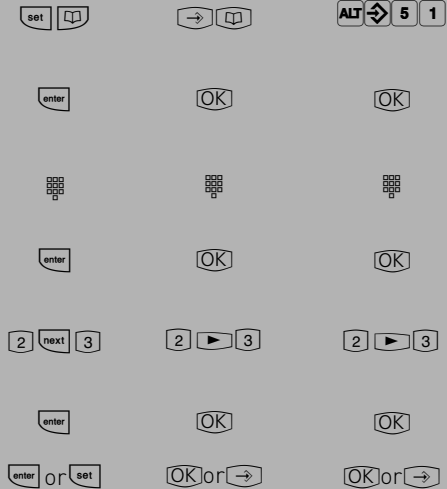
DECT 30

Up to 1000 telephone numbers and names can be stored in the central dialling memory. The numbers can be recalled by pressing the Phonebook button available on every system phone. Entries can be retrieved alphabetically. To change between retrieval method, press the and button. You can also store program functions and use the * and (R)ecall buttons. With this method all features could be used from telephones who do not support or have the * and R button. Single button memory (Emergency) dialling is reserved for the * and # buttons. You can centrally store up to 1000 important external phone numbers and affiliated names in the telephone system. These telephone numbers can then be selected from every system telephone by pressing the "phonebook" button, either via a numeric or an alphabetical register.

Storing a Number

Press the SET and PHONEBOOK button to access this programming area or go directly to the next available entry by pressing SET 51. The next free memory location is displayed. Enter the number you wish to store

Enter the name, i. e. AD
(2 = A, next, 3 = D; see notes under "Entering Extension Names")
Confirm
ENTER: store a further phone number or SET to end programming



Notes

When storing a number do not use the line access digit. The outside line is automatically seized when a number is dialled from the Phonebook. Dialled numbers from the Phonebook can be added too from your phone if additional digits will be dialled within 20 seconds. Users may dial from the Phonebook regardless if they are call barred or not. Stored emergency and Babysitter numbers can always be dialled even if the preset cost limit has been reached.

System Telephones

Changing a Number in the Phonebook

Press the SET and PHONEBOOK button to access this programming area or go directly to the input section by pressing SET 52.

Select the program item by pressing NEXT

Confirm the selection

Enter the location of the stored number (between 000 and 999), ie. 005

Confirm

Clear individual digits of the phone number by pressing the clear button or clear all by pressing the SHIFT and CLEAR button.

Edit the number

Confirm

Confirm or clear and modify the displayed name

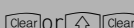
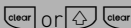
ENTER to change a further number in the phonebook or

Press SET to end programming

ST 25

ST 30

DECT 30



Notes

If "no entry" is displayed after a number has been entered, then by pressing * will go backwards from 999 and # will go forward from 000.

System Telephones

Deleting a Number from the phonebook

Press SET and the PHONEBOOK button to access this program area or go directly to the input section by pressing SET 53

Select the program item with NEXT

Confirm the selection

Enter the location of the stored number (between 000 and 999), ie. 005

Confirm the entered abbreviated dialling number.

Confirm deletion by pressing ENTER or cancel the operation by pressing ESC.

ENTER: to clear a further number or SET to end programming

ST 25



ST 30



DECT 30



Entering an Emergency Number

Press SET and the PHONEBOOK button to access this program area or go directly to the input section by pressing SET 54

Select the program item with NEXT

Select the program item by pressing "next"

Confirm the selection

Select the emergency button for example *

Enter the emergency phone number

Press ENTER: to enter another emergency number ie # or press SET to end programming



System Telephones

Store a Direct Call Number

Press SET and the PHONEBOOK button to access this program area or go directly to the input section by pressing SET 55
Select the program item with NEXT

Confirm the selection

Enter the phone number you wish to store

Press SET to end programming

ST 25



ST 30



DECT 30



Notes

To delete a single characters press or clear all by pressing .

Lock your phone to activate this feature. Press the feature button if programmed or dial SET 13. Once your phone is locked you can only access the direct call or emergency numbers.

Dialling Numbers from the Phone Book

Numbers in the Phone Book can be retrieved alphabetical, numerical or as vanity dial.

Vanity dialling: With the Vanity dialling you do not have to remember the location of the speed dial number in the phone book. Just enter the name . The name will be displayed as soon as a match has been found.

Example:

Select entries in the phone book with

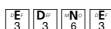
Dellmann



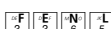
Diener



Edner



Fenlo



System Telephones

Changing the retrieval method

With the handset on hook.

Select retrieval method
Select the desired dialling menu (Vanity, numerical, alphabetical) and confirm selection

ST 25



ST 30



DECT 30

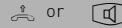
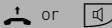


Phonebook (Numeric retrieval)

With the receiver on hook.

Initiate abbreviated dialling by pressing the Phonebook button. Enter the stored location of the entry, ie 000 to 999. The number will be displayed. You can scroll back and forth using the * and # buttons.

Lift the receiver or press the handsfree button. The displayed number will be dialled.



System Telephones

Phonebook (Alphabetic retrieval)

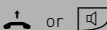
With the receiver on hook. Initiate abbreviated dialling by press the Phonebook button.

Press the NEXT button to move to the input for the second letter. The input cursor flashes

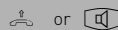
Enter the second letter, i. e. N =66. You can scroll up and down by pressing * and # respectively.

Lift the receiver or press the handsfree button. The displayed phone number will be dialled automatically.

ST 25



ST 30



DECT 30



Phonebook (Vanity retrieval)

With the handset on hook.

Enter the desired letter, i.e. A =2. The first entry with the selected initial letter is displayed.

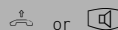
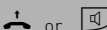
Select the next letter, i.e. N =6. The first entry with "An " is displayed.

Lift the receiver or press the handsfree button, the displayed name will automatically be dialled.

Press the * button to go back to the previous letter.

You can switch the LCD to display the telephone number by pressing the # button.

You can scroll with the NEXT button.



System Telephones

Redial a Number from the Phonebook

With the receiver on hook.

Initiate abbreviated dialling by pressing the Phonebook button. You are in the last used method of retrieval (numeric or alphabetical).

If necessary, press the "shift" button to switch to the another method of retrieval. Press the REDIAL button. The entry that was last displayed or dialled will be shown.

Lift the receiver or press the handsfree button you will be connected to the displayed number.

ST 25



ST 30



DECT 30



Notes

You can set in the configuration of the system, if extensions which have no line access can dial numbers from the phonebook.

If your extension is barred, then you cannot dial numbers from the phonebook which fall into this category. You will hear error tone.

The phonebook will always be displayed in the last used method of retrieval (numeric or alphanumeric)

If a number has been stored without a name in the phone book, then the only method of retrieval will be numeric.

Abbreviated numbers can also be dialled if the telephone receiver is off hook, for example when on an enquiry call. In this case you have to select the required number by pressing the button ENTER.

Incomplete telephone numbers can be added too: Select abbreviated number, pick up handset or press handsfree button, then add required digits to telephone number.

System Telephones

Telephone Lock - Emergency/Direct Call (Baby Call)

ST 25

ST 30

DECT 30

You can protect your telephone against unauthorised use by locking it.

If your telephone is locked,you can:

-only call extensions

-accept all incoming calls and transfer them to extensions

-only call the stored emergency and direct call phone number.

In addition you can use automatic dialling (Hotline) but this feature must have been enabled before locking your phone. If you have programmed a PIN number for your phone, then this must be entered to either lock or unlock your phone.

Locking your Phone (with Function Button)

With the receiver on hook.Press the "Telephone lock "button.(if programmed) The telephone is locked. If a PIN number is prompted then this must be entered before the phone can be locked. Error tone will be returned in an attempt to dial a number whilst the phone is locked.



Unlocking your Phone (with Function Button)

With the receiver on hook.Press the "Telephone lock "button.The telephone is unlocked. If a PIN number is prompted then this must be entered first before the phone can be unlocked.



Locking your Phone (without Function Button)

Press SET 13.

Enter the PIN number if prompted. The current setting is displayed.

"1 " : to lock phone

Press the SET button

This will end the lock procedure.

Your telephone is locked.

The display shows "Telephone lock "or, Emergency/ Baby call if this has been stored. Error tone will be returned for anyone trying to make an outside call.



System Telephones

Unlocking your Phone (without a Function button)

Press SET 13.
Enter your PIN if prompted.
The current setting is displayed

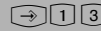
"0 ":Unlock the telephone

Press the "set " button.
This will end the unlocking procedure.

ST 25

ST 30

DECT 30



Emergency Call

The telephone is locked and the receiver is on hook.

Emergency call * or # only.Example: "*".The phone number is displayed.
Lift the receiver.The phone number is dialed automatically
or

press the handsfree button to dial the displayed number.



Direct Call (Baby Call)

The telephone is locked.
Lift the receiver.
When any button is pressed, the phone number stored as the direct number is dialed.



Notes

The emergency call/direct call function has priority over all outside connections in progress. If necessary a call in progress will be force released in order that the emergency call can be set up.

System Telephones

Appointment Call (Non-Recurring)

ST 25

ST 30

DECT 30

Your telephone can remind you of an appointment. At a set date and time your phone will ring to remind you. This function can be switched on or off at any time. An appointment call will ring even if your phone has been set to DO NOT DISTURB.

Set Up an Appointment Call

Press the SET and APPOINTMENT button or Press SET 15



Enter the time in the 24 hour format HHMM press the ENTER button. Today's date is shown.



Enter new date if required or press ENTER to accept. Press the SET button to store the entered details and to automatically activate the appointment call. The Clock symbol and or exclamation mark will be displayed as a reminder that this function is set.



Appointment Call (switch off)

Press the APPOINTMENT button. The stored appointment time appears in the top line of the display. The appointment call is now switched off. Press the "esc" button to return to the standard display. The clock symbol and the exclamation mark "!" are now switched off.



Appointment Call (switch on)

Press the APPOINTMENT button. The stored appointment time appears in the top line of the display. The appointment call is now switched on. Press the "esc" button to return to the standard display. The clock symbol and the exclamation mark "!" are now visible in the display.



System Telephones

Receiving an Appointment Call

ST 25

ST 30

DECT 30

The appointment call rings at the set time. Your display shows the "Appointment call" message for 20 seconds. The red LED flashes. The flashing clock symbol and the flashing red LED reminds you of the passed appointment. As long as "Appointment call" is displayed, you can switch it off by pressing the button "esc". At any other time you must press the button APPOINTMENT for this feature to be switched off.



Notes

You are only reminded of an appointment if this has been switched on. To stop further appointment calls, switch this feature off. You can switch a stored appointment on or off with the APPOINTMENT button. (Toggle switch)

If you are on the phone while your appointment call tries to ring you then the message, Appointment Call' will be displayed for 20 seconds with the red LED flashing. After you have replaced your receiver the Clock Symbol and red LED will continue to flash to remind you of the expired appointment. Switch off appointment call by pressing the associated button.

An appointment call will only ring your phone even if a diversion has been set.

System Telephones

Timer functions

ST 25

ST 30

DECT 30

The telephone system has a total of 10 timers. These can be used to activate certain functions at specific times. The following features can be time controlled:

- Day / Night Service
- Internal call forwarding
- Busy on Busy
- External line access
- Telephone lock
- Disable Call Waiting
- Relays
- Diversions

You can assign a function to any timer.

The timers can only be programmed in the "TK-Set" program.

Timers can be switched on or off manually from any phone for example the Office closes early and therefore night service needs to be switched on prior to the set time.

Several timers can be grouped into one so that they can be activated simultaneously.

Activating/deactivating Timers

Press the "Timer" button to enable the timer for the preset feature.

"1": The timer is active. The function(s) will be switched at the pre-set time.

"0": Deactivate timer. The function(s) return to the default setting

Press the "next" button for the functions to be controlled.

"1": Functions are set to their "on" settings and the timer is active. "0": Functions are set to their "off" settings.

Press SET to end programming.



System Telephones

Switching over the door call variant

ST 25

ST 30

DECT 30

Which phones are to ring when the bell push is pressed are set with the doorphone setting variant 1 and 2, day- night service call distribution setting. The doorphone class of service can be switched from any telephone, internal or external. If you change this from an external number then you have to dial the switch box which can be accessed via a DDI number on a PTP or a MSN number for a PTMP line.

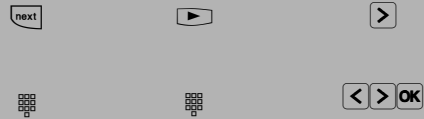
If Night Service has been switched off, then Day Service is enabled.

Doorphone Night Service on / off

Press SET and the feature button Night Service Door or press SET 11 to switch the Door to Night Service.




Press next to select the Doorphone.
"1": Call variant 2 (Night Service) on
"0": Call variant 2 (Night Service) off



Press SET to end programming
The door is now set to Night Service
which will be indicated by the '!' symbol.



Note

Several features may be set simultaneously and indicated with the "!" symbol. If required features which have been set can be displayed by pressing the  several times.

System Telephones

Doorphone Diversion to External Number

ST 25

ST 30

DECT 30

You can divert your doorphone to any external number, including mobile, if you want to be contactable by a visitor even though you are not in the building. Regardless of the set diversion the internal extension will still ring and can also be answered by the extension.

If you divert to an ISDN terminal capable to display the calling number, then the identification of a doorphone call is possible and you can answer accordingly.

You can also enable or disable a programmed doorphone diversion from any external telephone. For instruction on how to do this remotely please refer to the user manual for analogue phones section 'Diverting a doorphone to an external number'.

Programming and Diversion of a Doorphone

Press the SET and function button DIVERSION TO or Press SET 17.



Enter the doorphone extension number which is going to be diverted



With 'next' select -diversion to outside line



Press "enter" to confirm the selection



Enter telephone number to which the call will be forwarded and press enter to confirm.



Select the condition for the diversion

1 = Permanent (All Calls)

2 = When Busy

3 = When no Answer

and confirm with enter



Press 1 to switch diversion on

Press 2 to switch diversion off



Press SET to end programming



Notes

The external number will ring for 30 seconds, after which the call is cancelled. The external Doorcall will be disconnected after 10 minutes. The door opener cannot be activated from a diverted call.

System Telephones

Operating the Doorphone and Door opener

ST 25

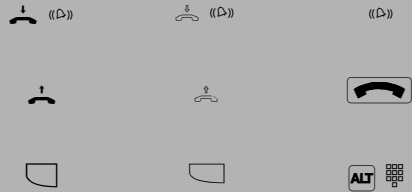
ST 30

DECT 30

You can speak to someone at the door if your system has a doorphone (TFE) connected to it. Your phone will ring with a distinctive ringing sequence if a visitor presses the bell push at the doorphone. The door call can still be answered 30 seconds after the last ringing sequence. (or for as long as the red LED flashes) The doorphone will be answered as soon as you lift the receiver on your phone. You also can activate the door opener from your phone whilst speaking to the doorphone. You can also Call Pick Up a doorphone call that rings at another extension. Your extension will be busy during the connection to the doorphone.

Answering a Doorphone Call

The receiver is on the hook.
The doorphone rings your extension.
Lift the receiver of your phone, you are now connected to the doorphone.
To release the door press the 'DOOR' button. The door opener is activated for three seconds. Your display shows a confirmation message and you will hear an acknowledgement tone.



Calling the Doorphone

Lift the receiver
Press the DOOR button. The acknowledgement tone sounds. You are connected to the doorphone and can speak to the visitor.



Replace the receiver to end this operation



Notes

- A DOOR feature button must be available at your extension if:
 - or you want to call the doorphone
 - or you want to Call Pick Up a Doorphone
 - or you want to release the door lock

press ESC to immediately cancel the lock release

System Telephones

Sending CLIP or COLP

ST 25

ST 30

DECT 30

The telephone system transmits your phone number to another ISDN subscriber before the connection is established (default setting of the system). Two types of settings are available within the ISDN network:

Forwarding the telephone number to the called party (CLIP = Connected Line Identification Presentation)

Your telephone number will be forwarded to the subscriber you are calling.

Forwarding the telephone number to the calling party (COLP = Connected Line Presentation)

Your telephone number is forwarded to the subscriber calling you. This ISDN feature will have to be ordered from your network provider.

Setting CLIP to on/off

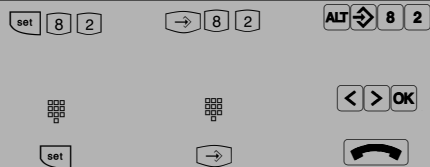
Press SET 82

The current setting is displayed

1 = Send Number

0 = Withhold Number

Press SET to end programming



Setting CLIP to on/off with a function button

Press the "incognito" button to enable or disable sending of your number.



Setting COLP to on/off

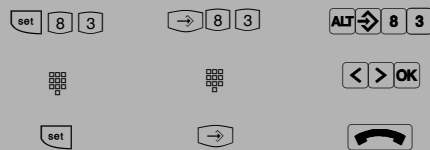
Press SET 83 to set COLP to on or off.

The current setting is displayed

1 = Send Number

0 = Withhold Number

Press SET to end programming



Notes

Your complete number will be sent to the network consisting of STD Code and DDI number or STD Code and MSN number, depending if the line is for system access (PTP) or standard access (PTMP). You must transmit a valid number belonging to you. If you transmit a number which is outside your allocated range then the telephone exchange will automatically replace this number with the main number allocated to the ISDN 2 e circuit.




System Telephones

Diversion from - Divert other Extensions

ST 25

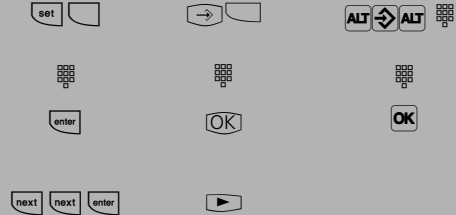
ST 30

DECT 30

You can divert other extensions to your own which may momentarily not be staffed. After the diversion is enabled, the diverted phone will not ring for any further calls. Calls can still be made normally from the diverted extension. A special dial tone will remind the diverted extension that a feature is enabled in addition the '!' symbol will be displayed on both phones. Check status by   ... .

Diversion from - programming and switching

Press SET and the DIVERSION FROM button or Press SET 18
Enter the extension number you wish to divert to your own
Press enter
The extension is now in divert.
To cancel the divert press
next : next : enter (on ST 30 press right arrow and follow instruction) the setting is displayed Press clear



Notes

You can switch an already programmed "Diversion from" on or off on your phone with the "Diversion from" and "enter" buttons. The display shows:

```
13 permanently to  
telephone 11
```




```
13 deactivated to  
telephone 11
```

Returned Calls, Wake Up and Appointment calls cannot be diverted.

Calls can only be diverted once. Calls diverted to you are ringing your extension only even if you have set a 'Diversion to' on your phone.
A "Diversion from" a phone where the Do Not Disturb feature has been set to your extension is possible.

Status messages:

Several features may be set simultaneously and indicated with the "!" symbol. If required features which have been set can be displayed by pressing the  several times

System Telephones

Diversion to -diverting calls to another phone

ST 25

ST 30

DECT 30




Diversion via the Phone System

You are able to divert all calls for any phone either to another extension or via the second B channel to any number worldwide.

You are able to select:

- Divert all Calls
- Divert when Busy
- Divert no Answer (after 15 seconds)

The diversion to an external number can also be set up remotely from any number worldwide. For further set up instruction, please refer to your user manual in the analogue section under the heading 'Diversion – divert to another number'

After the diversion is enabled, the diverted phone will not ring for any further calls. Calls can still be made normally from the diverted extension. A special dial tone will remind the diverted extension that a feature is enabled in addition the '!' symbol will be displayed on the diverted phone and if applicable the internal target extension. Check status by   ... .

Diversion to - Program and Enable

Press SET and the DIVERSION FROM button or Press SET 17

Enter the extension number for whom calls should be diverted

Select with next if the call is to be diverted to another extension or an outside line.

Confirm the selection with 'enter'

Enter the extension number or outside number to which the calls should be diverted

Press ENTER to confirm

Select the type of diversion:

- 1 = All Calls
- 2 = When Busy
- 3= If no answer (divert after 15 secs)

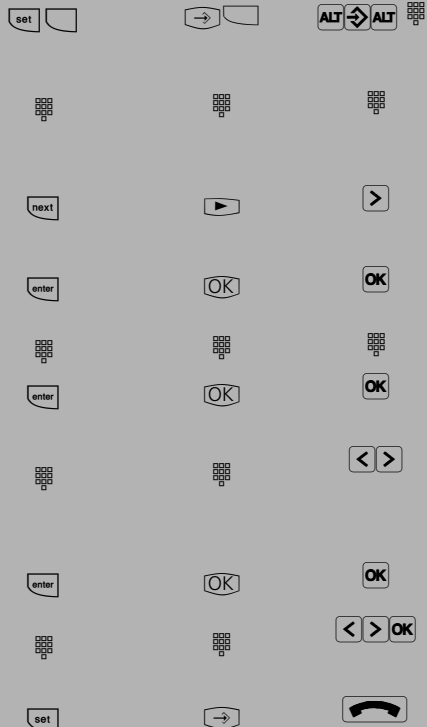
Press ENTER to confirm

For activation press

- 1 Diversion enabled
- 0 Diversion disabled

Press SET to end programming

The ! symbol on your phone will indicate the active diversion.



System Telephones

Diversion to – enable feature with function button

Select this feature by pressing the DIVERSION TO function button the current status will be displayed. Enable or disable the diversion by pressing the ENTER button. If you press next you can switch the diversion on or off for the second extension number allocated to your phone. Return to the main menu by pressing ESC

ST 25



ST 30



DECT 30



Notes

A diversion will not be carried out if the call to be diverted has already being once diverted. Diversions to an extension where Do Not Disturb is set are not possible. Returned calls, Alarm and Appointment Calls cannot be diverted. A line must be available for diversions to an outside number. The diverting extension must have the correct line access level set in order to establish a diversion to an outside number. You will have to pay call charges for diverted calls.

Status messages:

Several features may be set simultaneously and indicated with the "!" symbol. If required features which have been set can be displayed by pressing the several times

After pressing and then you can display all diversions which concern your extension. The displayed diverted number can be cancelled by pressing

System Telephones

Call Forwarding

ST 25

ST 30

DECT 30

Diversion via the public switched telephone network. Call forwarding can only be setup if this feature has been ordered from your telephone exchange. If call forward is carried out on a Point to Point (PTP) connection then the entire line including all DDI's are forwarded. To forward individual DDI numbers via the telephone exchange and without busying your second B Channel you must have the feature PARTIAL RE-ROUTING enabled in the program of the telephone system.

Using this feature on a Point to Multipoint (PTMP) then partial re-routed does not need to be set as each individual MSN can be diverted. When using a call forwarding button on your phone you can select the line to be forwarded.

Call forwarding can also be programmed remotely from any telephone. For instructions on how to activate call forwarding remotely, please refer to your user manual for analogue extensions under the heading 'Diverting to....' A destination telephone number must have been programmed if you want to switch on or off call forwarding via a feature button. The following types of call forward are available.

- Forward all calls
- Forward on busy
- Forward on no reply

Programming a Call Forwarding Destination

Press SET and the CALL FORWARDING button or press SET 81 to program the forwarding destination.

Press NEXT to select the next free available entry.

Press ENTER to confirm

The first entered number will be displayed.

Press next to select a line which should be forwarded.

Press ENTER to confirm the selected line.

Enter the destination telephone number and press

ENTER to confirm.

Select the condition under which a call shall be forwarded ie

1 = All Calls

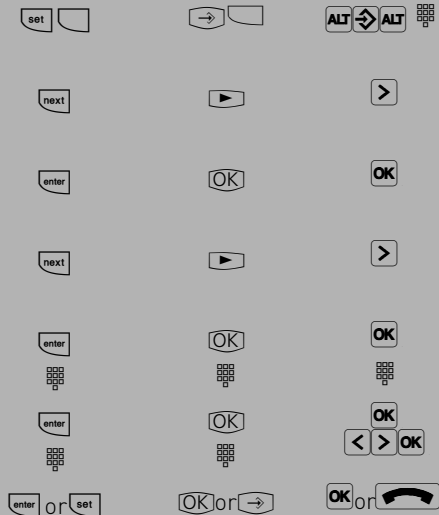
2 = When Busy

3 = When no Answer

Press ENTER to program another line or

Press SET to end programming.

You can enable or disable Call Forward with the 'ISDN Call Forward' button.



System Telephones

Call Forward on/ off

Press the 'ISDN Call Forward' button. The system will display for which line call forwarding is set and to which destination number and if this is enabled or disabled.

By pressing NEXT another line and number will be displayed if applicable.

By pressing ENTER you will enable or disable call forwarding for the displayed line. Wait until the display will confirm the activation. (Confirmation from ISDN exchange) This could take up to 60 secs.

Press ESC to return to the default display. The LCD will show '!' to indicate that Call Forwarding is active.

ST 25



ST 30



DECT 30



Notes

You can only enable or disable call forwarding with an "ISDN call forwarding" function button.

You can only program a call forwarding destination if this has not already been forwarded. Outgoing calls are unaffected if call forwarding has been set. You will hear a special dial tone from the telephone exchange whilst this feature is enabled.

System Telephones

Display and delete call charges

ST 25

ST 30

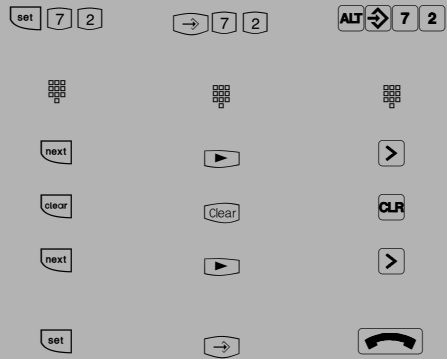
DECT 30

You can display on a system phone the meter total and last call charge per extension which then can be deleted individually. If you delete the meter total of an extension then the last call cost will also have been deleted.

Reset Meter to Zero

Please take note of display details
Press 72, enter 4 digit authorisation code
if required

Delete the displayed charges by
pressing CLEAR
Scroll with NEXT to display and
delete further meters if required.
or
Press SET to end programming.



Notes

Charges for doorphone call diversions to an outside number will be logged under the extension number of the door. (Txx)

System Telephones

Printing of Metered Call Charges

ST 25

ST 30

DECT 30

You can print the total of all call charges per MSN line, extension and cost of diversions of doorphones. Printing will be done via a connected serial printer. Depending on the setting printing can be done with either 24 or 80 characters per line. In addition you can select the line feed from 0 to 4 lines. The information printed will contain the date, time, subscribers number, extension or SO number, cost of the connection in units and amount. (If tariff charge units have been entered)

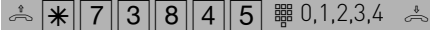
Setting the line feed for the Printer

The line feed of the printer can be set between 0 and 4 lines.

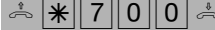
Enter program mode:



Set the desired line feed:

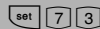


End programming:



Printing the total of all call charges

Please take note of display details
Press 73, enter 4 digit authorisation code if required



Press ENTER to confirm that you would like a printout of all totals for extensions, lines and SO connections



Press SET to end programming



System Telephones

Printing selected Call Charges

Please take note of display details
Press 73, enter 4 digit authorisation code
if required
Scroll with NEXT until the required user is
displayed. order of display: all data, Subscriber,
Extension, SO connection, System,
or

enter extension number
press ENTER to confirm printing of
call charges
press enter to select another extension
or press SET to end programming

ST 25

ST 30

DECT 30



System Telephones

Call Charges – Display your own

ST 25

ST 30

DECT 30

Your telephone system can display call charges, if you have requested this feature from the network operator, either during or at the end of a call.

You can display

- charges during a call in progress
- available balance – if a charge limit has been set – charge of the last call
- your total call charges

Display Charges during a call

Whilst on a outside call.

The display of call charges on your system phone is enabled (SET 281), no charge limit set.

During an external call the first display line will indicate the call charges after receiving a meter pulse for max 5 seconds.

Otherwise the subscribers number will be displayed. You can display the charges for 5 second with the button 'UNITS'.

At the end of a call the charges will be displayed for 20 seconds after which the time will be displayed. The duration of the call will be displayed if no charges are received. The display of call charges on your system phone is enabled (SET281), charge limit set.

During an external call the first line of the display will indicate the remaining amount for max

5 seconds after each meter pulse.

Otherwise the subscribers number will be displayed.

The current charge limit can be displayed for 5 seconds with the button UNITS. At the end of a call the amount remaining will be displayed for 20 seconds after which the current time will be displayed.



System Telephones

Call Charges – Display the total of the last call

With the receiver on hook. Press the “units ” button or press SET 71 .The costs of the last call will be displayed.

Press the “next ”button.

If a charge limit has been set then the remaining available amount will be displayed. If no charge limit has been set then the current total of call charges are displayed.

Press ESC or SET to end display of call charges.

ST 25



next

esc or set

ST 30



stop or →

DECT 30



Notes

No call charges will be displayed if the cost of a meter unit has not been set.

For technical reasons, the information on the network carrier 's invoice may deviate from the total of the telephone system 's call charges. The tariff cost of the network provider is always final.

If the call meter of the system is full, then call data has to be manually deleted. TK Bill from Version 6 (64) offers two new symbols to read the number call records and delete these.

Alternatively you can enable with the assistance of TK Set under the heading connection charges that the data is automatically deleted after it has been read. Should the memory be nearly full, then the system phones which have call charges enabled will display, Read Call Charges.

System Telephones

Record Call Charges for Extensions (Start / Stop)

ST 25

ST 30

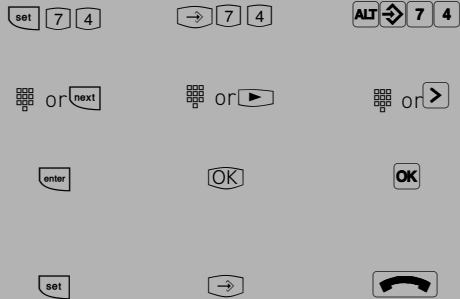
DECT 30

You can start and stop the recording of call charges for extensions. You reset the meter to zero when starting to record call charges. When set to stop, the call charges will be printed on the connected printer and the extension is set to incoming calls only. The number of chargeable calls is added to the printout.

Start Recording Call Charges

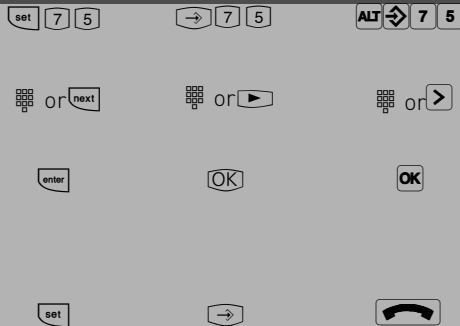
Please take note of display details
Press 74, enter 4 digit authorisation code if required
Enter the extension number required or make selection by pressing NEXT

confirm the selection by pressing ENTER.
This extension is now set to make outgoing calls.
Enter the next extension or press SET to end programming



Stop Recording Call Charges

Please take note of display details
Press 75, enter 4 digit authorisation code if required
Enter the extension number required or make selection by pressing NEXT
confirm the selection by pressing ENTER.
This extension is now set to receive incoming calls only.
Outgoing calls can only be made if recording of call charges have been set to on. Enter the next extension or press SET to end programming



Check in / Check out

The above function can also be set with the function button Check in / out. This button can be programmed for a specific extension or left empty so that the extension number has to be entered after pressing this button. (See also programming of function buttons)

System Telephones

System Redial

ST 25

ST 30

DECT 30

In the extended redial memory, the telephone system stores the last five external phone numbers that you have dialled. You can select one of these external phone numbers and you can dial by simply lifting the receiver.

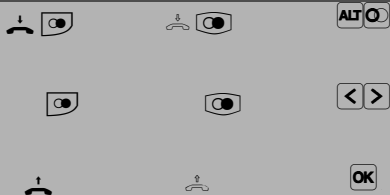
With the automatic redial feature, your system telephone makes 10 attempts to establish a connection to an external subscriber who is busy or who does not answer. If the external subscriber does not answer, the telephone is rung for 30 seconds. The system telephone then cancels the connection attempt. After every attempt, the system telephone inserts a break of 90 seconds. If the other party answers, you must lift the receiver or press the loudspeaker key as otherwise the connection will be cleared after 10 seconds.

You can dial any external phone number by means of the automatic redial function that is displayed when the receiver is on hook. This is the case after dialling preparation, after pressing the „redial“ key or after the „destination“ key or „phonebook“.

Extended redial

With the receiver on hook. Press the “redial” button. The last phone number dialled is displayed.

By repeated pressing of the “redial” button, select one of the 5 last phone numbers displayed. Lift the receiver. The displayed phone number is dialled.



Automatic Redial

With the receiver on hook press the redial button. The last number dialled is displayed. Automatic redial will start once you press the enter button. The green LED will flash. The LCD will display how many more times the system is trying to the requird number. The speaker will be switched on automatically once the connection has been established.

Pick up the receiver or press the speaker button as otherwise the line will be cleared down after 10 seconds.



Notes

A phone number which has been dialled via the single button dialling or the phone book will not be stored in the redial memory. Automatic redial can be cancelled at any time by pressing any button on your system phone.

System Telephones

Wake Up Call – Repeated Appointment Call

ST 25

ST 30

DECT 30

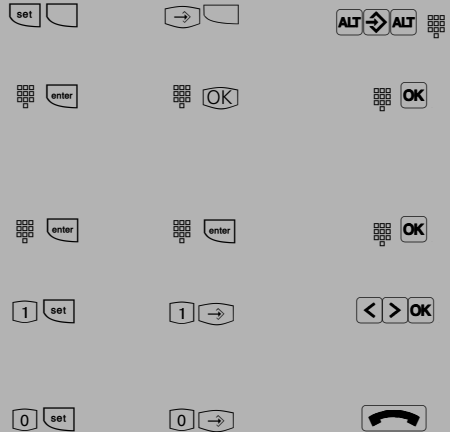
You can place a Wake Up Call from your phone. The Wake Up Call will ring your phone for one minute with increasing volume. The snooze function can be activated at the push of a button during the wake up call which will then be suspended and repeated every 10 minutes for a maximum of one hour. The wake up call will be completed once you lift and replace the receiver. The Wake up call will ring your extension even if do not disturb is set. A bell symbol will be displayed in the LCD to indicate that this function is set. (ST30 phone will display a clock, DECT 30 will display a W.

Set Wake Up Call

Press SET & Wake Up Call or Press SET 16.

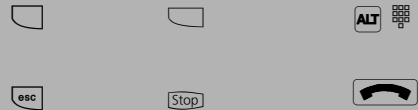
Enter the time as HH:MM in the 24 hour format. Press ENTER
Press shift and clear to delete an earlier entry if applicable.

Select the day of the week for which the Wake Up Call should be set:
1-7 for days from Monday to Sunday
8: Monday to Friday
9: all weekdays
confirm with OK
press 1 and SET to store and activate the entered Wake up Call. The display will show a bell symbol as confirmation.



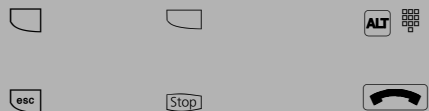
Switch on Wake Up Call

Press the button Wake Up
The first line of the display will show the stored time. The Wake Up Call is now switched on. Press ECS to return to the standard display.



Switch off Wake Up Call

Press the button Wake Up
The first line of the display will show the stored time. The Wake Up Call is now switched off. Press ECS to return to the standard display.



System Telephones

Receiving a Wake Up Call

ST 25

ST 30

DECT 30

The Wake Up Call will ring your phone at the set time and the LCD will display WAKE UP CALL. Press the ESC button to switch off Wake Up for today. The next Wake Up Call will ring your phone again at the same time the next day.



Notes

The Wake Up call will only work if you have activated it. To switch off the Wake Up Call, press the Wake Up button.

If set to on the Wake Up Call will ring every day at the same time.

The Wake Up Call will not ring your phone if you are on a call, but will ring as soon as you replace the receiver.

Wake Up Call will ring your phone even if you have set a divert for it.

World Clock

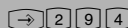
It is possible to display different time zones on the ST 30 instead of status information. Different places can be set via system programming tool. (see instruction in TK Suite)

World Clock enable / disable

Display of the World Time Clock.

1 = enable
2 = disable
confirm with OK
end programming

You can scroll between different time zones with the arrow buttons whilst the display is in the idle status. The times zones will scroll automatically if > is displayed.



System Telephones

Single Button Dialling

ST 25

ST 30

DECT 30

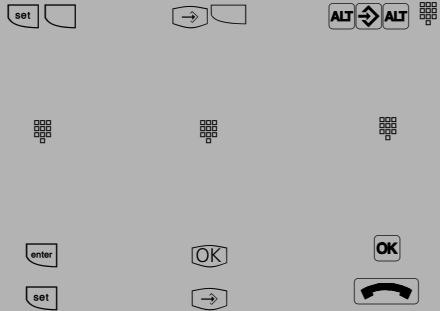
Your system phone can store up to 20 different telephone numbers. Numbers can be called at the push of a button. Each feature button can be programmed to store a personal number, not accessible from other extensions. Feature buttons can also store numbers from the central phone book. Numbers stored can also be alpha tagged. (See notes on how to alpha tag numbers)

It may have been set in the program of the telephone system which buttons are allocated on your phone for single button dialling. Each function button has two levels. See also Changing function button assignment 2'.

Storing a Number from the Phonebook

Press SET & Function Button to be programmed
(if you program the button for the second level, then press the shift button first followed by the function button)
From the Phonebook select the number required.
Confirm your selection with ENTER.
Press SET to end programming.

(see Phonebook dialling for information on how to retrieve numbers)



System Telephones

Storing a Personal Number

Press SET and select function button to store number into. (if you program the button for the second level, then press the shift button first followed by the function button)

If applicable a number already stored will be displayed.

Enter the full telephone number you wish to store. You can overwrite an existing entry or press clear to delete the entry first.

Confirm your entry by pressing enter.

Press ENTER to program further buttons or press SET to end programming
The number stored will only be available to your extension.

ST 25



ST 30



DECT 30



Single Button Dialling

Lift the receiver and press the destination key. The stored telephone number is displayed and dialled. The outside line is seized automatically. When the other party answers, conduct the telephone conversation in the usual manner.



Notes

Enter the number to be stored without the the line access digit. The line will be seized automatically.

If a number is already entered in the selected location, then press CLEAR to delete this entry. To keep a number displayed, press ESC and select different button.

Overdialling: Press the required Memory button in which part of the number is stored, and complete dialling by adding the required digits.

System Telephones

Telephone Answering Machine (TAM)

ST 25

ST 30

DECT 30

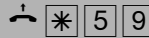
An AGFEO ST 30 system phone can be expanded with a 'A Modul 30' telephone answering machine. The answering machine can be switched on or off from any extension or remotely from any telephone number. The module can be recorded with two messages, one for normal operation and one for announcement only mode.

If the ST 30 is programmed with a primary and secondary extension number then the answering machine can answer each number with a different message in turn. (Like having two answering machines) The two extension numbers will work totally independent from each other and each machine can be switched on or off as required.

Switch on / off (from another extension)

Remote activation
Dial the extension number of the answering machine followed by the digit for the required setting.
2=Answer on
1=Announcement only on
0=off
Acknowledgement tone is returned.

Replace the receiver.



Groups

You are part of a group if your extension number has been allocated to a group number. (please refer to TK Suite).

You can log in or out of the group with a function button programmed as ,GROUP'. The sequence of the call distribution is important (for even call distribution within a hotline for example) and will not change if a group member will log in or out of the group. A maximum of up to 20 groups can be formed and every extension may be a member of every group.

System Telephones

Log In / Log Out

ST 25

ST 30

DECT 30

Press the button GROUP. If you have been logged into a group the display will show LOGGED OUT FOR GROUP NN. Whereby NN is the group number or group name. If you press the GROUP button again then you will be logged in again and the display will read LOGGED IN FOR GROUP NN.

If you do not specify the group number, then the function will be carried out for all groups you are a member of. The call sequence as defined with TK Suite will not change.

System Telephones

ST 25

ST 30

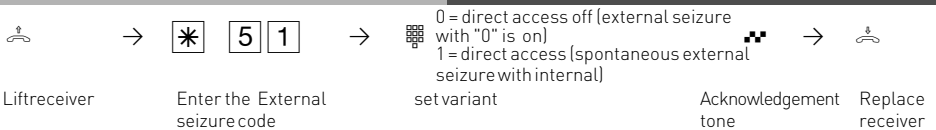
DECT 30

Analogue and ISDN-Phones

External Line Access

Depending on your preference the system offers different modes to connect to an outside line. Spontaneous seizure with internal will connect any number dialled to the exchange line. To dial an extension you prefix the extension number with #. If your phone has no # button then you are unable to make any internal calls. If you set the access to spontaneous then on lifting the receiver you will hear external dial tone. With this setting you cannot make any internal calls. This setting could be used for a faxmachine or a payphone. If you select the setting with access digit then you have to dial 0 (or 9) to get an outside line. In this case you would dial 9 and the required telephone number or the two digit extension number to make an internal call.

Setting External Seizure



Making a Call

To make an internal call, pick up receiver and dial the 2 digit extension number. Note: Each extensions can have two separate numbers. Please contact your Telephone System Manager for an Internal Telephone Directory.

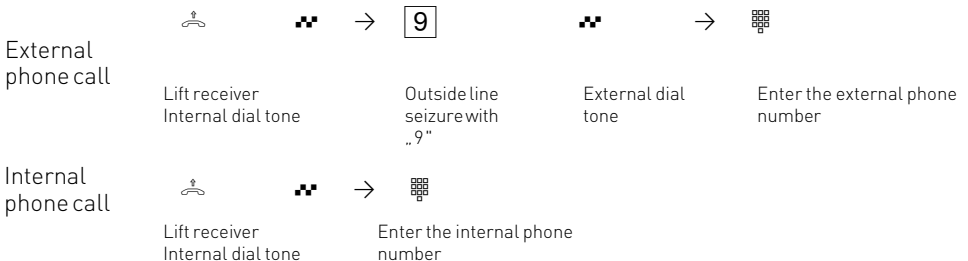
To make an exchange line call depends on how your telephone system is programmed.

For users who's extension is set to 'Spontaneous line seizure with internal' just need to dial the the required telephone number. If you would like to make a call to another extension on your telephone system, then please prefix the extension number by #.

If a line access digit is set then you have to dial 0 (or 9 as the case may be) to get an outside line and then dial the telephone number required. If you would like to call another extension on your system, then just dial the two digit extension number.

If Call Forwarding is active on your line, then you will hear a special dial tone from the telephone exchanger after you connect to the line. This will remind you that this or another feature may be set in the exchange

Making a Call (Using Acces digit)



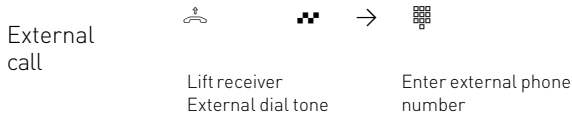
Analogue and ISDN-Phones

Making a Call (Using Access digit)

On a combiport a line can also be accessed by dialling '10', by doing so you will have assigned this line for fax service only. If an outside line is accessed via the digit '9', then telephony service will be assigned.

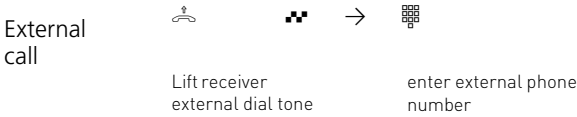
Forwarding your number. The telephone number which has been allocated to your extension will be forwarded to the called party. You may also forward an alternative number if this is available to you by selecting another line or MSN number via a *-procedure.

Making a call spontaneous seizure with internal



Analogue and ISDN-Phones

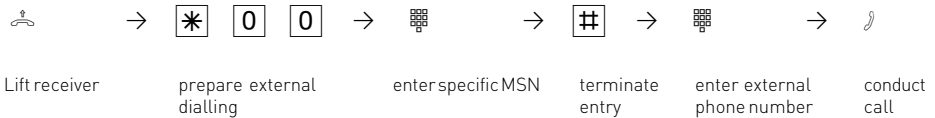
Spontaneous Outside Line Seizure (no internal calls)



In this mode no internal calls can be made.

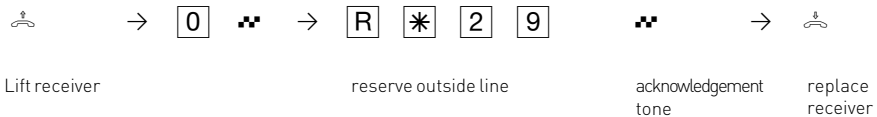
External Acces with specific MSN

You may send another MSN number other then the one allocated to you to the network.



Reserving an outside line (Call Back when free)

On requesting an outside line you will hear busy tone if all lines are engaged. You may now request for a line to be reserved. As soon as an outside line becomes free the system will phone you back. When picking up the receiver you will hear external dial tone and can dial your number.



Analogue and ISDN-Phones

Notes

If Error tone is returned to you after dialling the line access code then your extension is call barred.

Barred Calls – You will not be able to make calls for which your extension is call barred. If you try and make a call to a barred number, error tone will be returned to you.

Internal call - Internal dialling is not possible on telephones for which spontaneous outside line seizure with internal is set and which do not have a **#** key (hash key) or which do not support this key.

DTMF signalling - It is possible to send DTMF Tones during a call. This can also be done during an enquiry call, Brokers Call and Three Party Conference. Any digit from 0 – 9 including * and # can be transmitted.

An outside line which has been reserved will only ring your extension for 60 seconds after which the call back for the outside line will be cancelled.

If an error tone is returned when booking a reservation for an outside line, then this means that the line has already been reserved by another extension.

You may dial 99 on telephones which do not have a ***** button.

Analogue and ISDN-Phones

Accepting Incoming Calls

Incoming calls will be signalled with a different ringing cadence for incoming-, extension- and doorphone calls. You can also be called whilst already on a call, this will be indicated to you by a call waiting tone in your handset.







You are called

«D» →  → 

lift receiver

conduct the call

Call waiting

  →  «D» →  →  

You are on a call and hear the call waiting tone


End the call

Automatic ringing by the waiting party

Lift the receiver

Conduct the call

External call waiting (free outside line)

  →  →   → 




You are on a call and hear the call waiting tone

Press R the call is placed on hold

Answer the waiting call

conduct the call

Internal call waiting

  →  →  → 

You are conducting a call and you hear the call waiting tone

Inquiry, the call is placed on hold

Fetch the waiting - internal call

conduct the call

Analogue and ISDN-Phones

Rejecting an external waiting call



Notes

If you hear error tone when trying to answer a waiting call, then the call waiting tone is for the other party.

The call waiting tone can be switched off by setting .Call waiting deny

Call Transfer

You can transfer an incoming call to an extension or another external number. When transferring a call to an extension you can announce the caller before replacing the receiver.

Internal Transfer with announcement

You call the extension in an enquiry, you announce the external call and you replace the receiver. You have now transferred the external call.

Internal Transfer without announcement

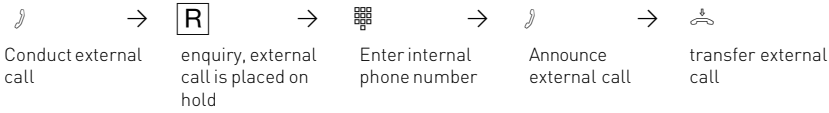
Press the R button and dial the required extension, replace the receiver on hearing ringing tone.

External Transfer is only possible with an announcement

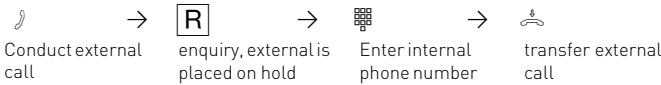
Whilst on a call place the existing call on hold and call the other required party. Announce and transfer the call.

Analogue and ISDN-Phones

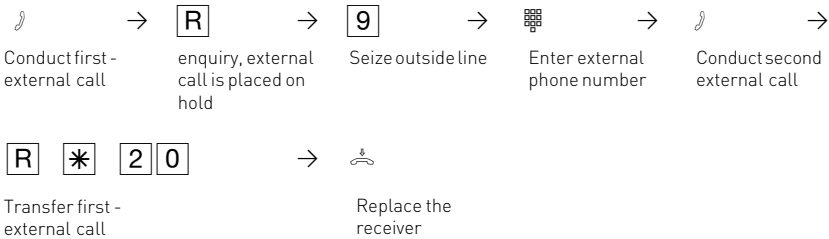
Internal Transfer with announcement



Internal Transfer without announcement



External Transfer



Notes

When transferring an external call, you must always seize the outside line by entering „9“, even if spontaneous outside line seizure with internal is set on the telephone.

External Transfer is only possible if a dial-up line (B-channel) is free.

You bear the cost of the externally transferred call.

A user on the internal S0 bus can only forward an external call internally if the second B channel of the internal S0 bus is free. External/external Transfer is not possible.

Internal Transfer with announcement

If the internal user does not answer, you are connected back to the external subscriber after dialling **R|9**. If necessary, you can transfer this external subscriber to another internal user.

During an enquiry call the outside caller will hear Music on Hold. (if activated)

A unannounced transferred call will be returned to you after 45 seconds if the extension fails to answer it. The call will be cleared if you also fail to answer the call within 60 seconds.

Analogue and ISDN-Phones

Call waiting / Call Back when free

An extension already on a call will hear call waiting tone if called by another extension or outside call. If the extension does not answer your call then you can request ringback when free.

Request Ringback when free



Lift receiver



busytone



Enquiry



Request
Ringback
when free

Analogue and ISDN-Phones

Notes

Call waiting announcement - You cannot announce yourself as a waiting caller to an internal user

- from whom a callback is already expected.
- whose connection is set to the answering machine, fax, modem or combined unit terminal type,
- who has activated call waiting protection on his telephone.

If you wish to repeatedly announce a waiting call to an internal user without placing a call on hold, you must announce your call again.

Callback - You can initiate several callbacks in succession (from every internal user)

You cannot initiate a callback from an internal user

- from whom another user is already expecting a callback,
- who has activated do not disturb on his telephone,
- whose connection is set to the answering machine, fax, modem or combined unit terminal type,
- who has activated call waiting protection on his telephone.

Callback from a user with a standard -telephone:

- The callback is cancelled after 60 seconds if you do not pick up the receiver.
- A callback is cleared automatically once it has been established.

Callback in general:

You have activated a callback:

- if you have activated do not disturb on your telephone, this is temporarily -cancelled.
- if you have set call diversion on your -telephone, the callback is not diverted.
- Power failure: initiated callbacks are cleared.

Call list - Callback from a user with a -system telephone:

- If you do not pick up the receiver, after 60 seconds your call is entered in the call list of the user's system telephone.
- If you are busy, your call is immediately entered in the call list.
- If the user picks up the receiver during his callback, your call is immediately entered in his call list.

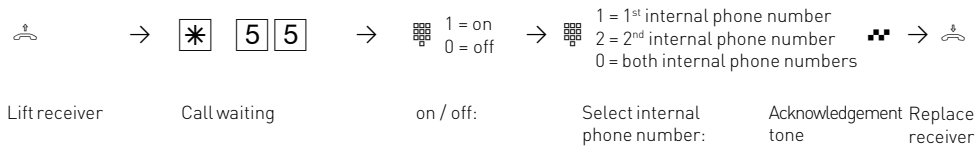
You cannot use the „call waiting -announcement/callback/call list“ features on a combined unit (phone/fax).

Analogue and ISDN-Phones

Call Waiting

A call waiting to be answered can be signalled with the CALL WAITING TONE whilst already on a call. This tone is an audible sound indicated in your handset. This feature can be switched on or off. If this feature is set to off, then callers will hear the busy tone when your extension is in use.

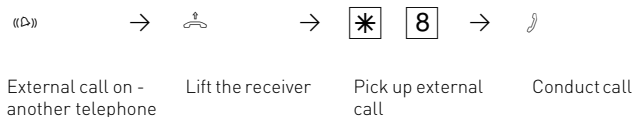
Call Waiting on / off



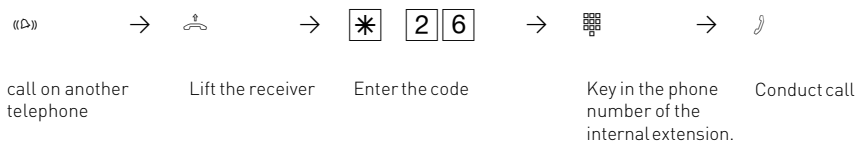
Call Pick Up

Another telephone rings with an external or an internal ringing tone. You can pick up this call on your telephone. You can also pick the call up if the answering machine has already answered it.

Unselective Call Pick Up of an external call



Selective Call Pick Up



Analogue and ISDN-Phones

Pick Up a door call



Door call on another telephone → Lift the receiver on your telephone → Pick up door call → Doorphone Number → Conduct call

Pick Up (from Answering machine)



Answering machine has accepted external call → Lift the receiver on your telephone → Enter the answering machine's internal phone number → Conduct external call

Notes

To be able to pick up a call from an -answering machine, the terminal connection must be programmed as an answering -machine. You can only pick up external calls non-selectively. You can selectively pick up the call signalled to the selected extension.

Do Not Disturb

You do not wish to be disturbed by calls and you activate the do not disturb feature.

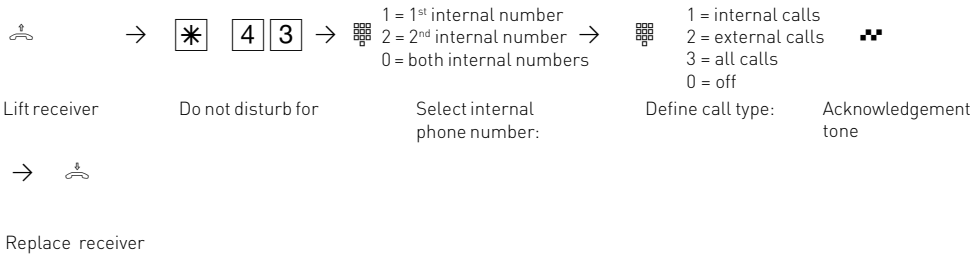
You can select whether the don't disturb feature is to apply for your 1st internal phone number (primary internal phone number), your 2nd internal phone number (secondary internal phone number) or for both internal phone numbers.

You can also define whether do not disturb is to apply only to internal calls, to external calls or to all calls and you can deactivate do not disturb again.

If do not disturb is active, ringing on your telephone is off and internal callers hear the busy tone. You can continue conducting telephone calls in the usual manner. When you pick up the receiver, the special dial tone reminds you that the do not disturb feature is on.

Analogue and ISDN-Phones

Do Not Disturb on/off



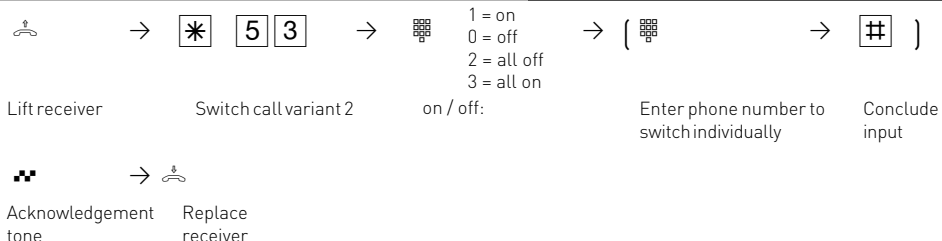
Notes

You can initiate callbacks despite the fact that the do not disturb feature is active. The callback temporarily cancels do not disturb. Do not disturb is not active if you are using your telephone as a guarding telephone for room monitoring.

Switching between Day and Night Service

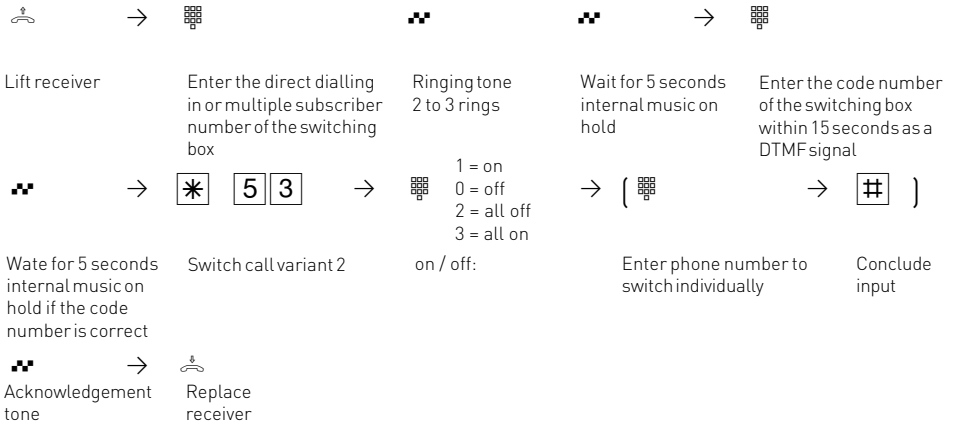
Which extension should ring on an incoming call is set in the 'Call Variant' under Day/ Night Service. If several extensions ring on an incoming call then the one who picks up the receiver first will have answered the call. An incoming call can ring different extensions depending if the system is running under Day or Night Service. Night Service can be set for each incoming line separately. Day - Night Service can be activated from any extension on the system or remotely. Please refer to the operating instruction for an analogue phone on how to switch Day- Night Service from an external phone.

Night Service on / off



Analogue and ISDN-Phones

Night Service on / off from an external source



Notes

If the selection 'all off/all on' is set up when Night Service is switched on/off, door call variant 2 is switched on/off at the same time.

Switching Call Forwarding (Extension Call Forwarding) on/off

With this setting incoming calls can be forwarded to alternative extensions if:

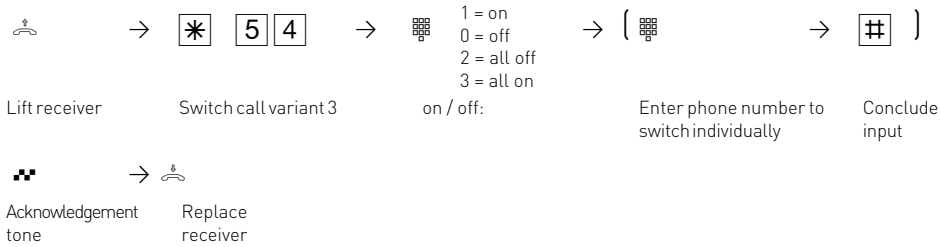
- after a preset number of rings the call remains unanswered.
- Immediately if the telephone is busy and call waiting indication is not possible.

This feature can be set at any time from any extension or remotely for any exchange line connected to your system.

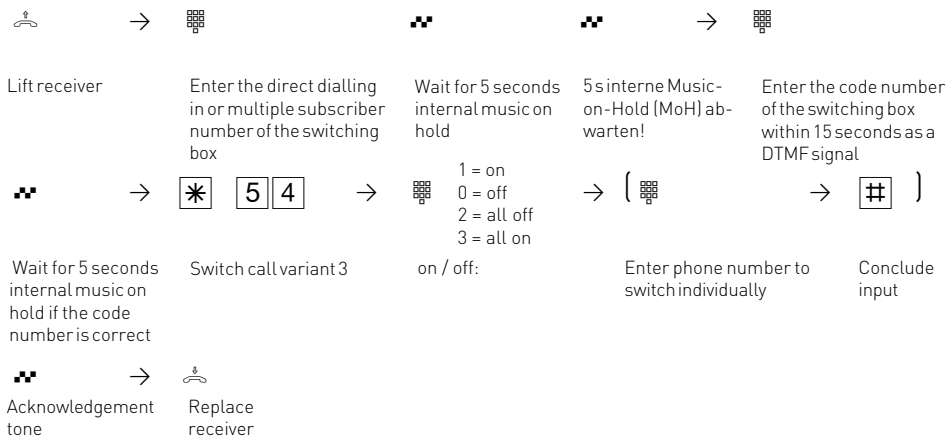
The Call Forwarding is set for each extension in the programming table of the Call Forward section.

Analogue and ISDN-Phones

Internal Call Forwarding on / off



Internal Call Forwarding on/off from an external telephone



Announcement

You can make an announcement via the telephone system either via a connected PA System or through system telephones.

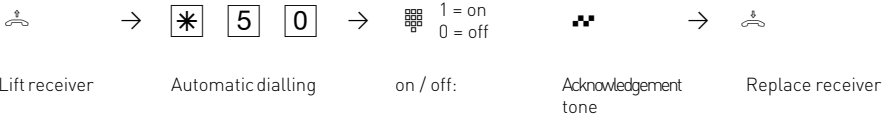


Analogue and ISDN-Phones

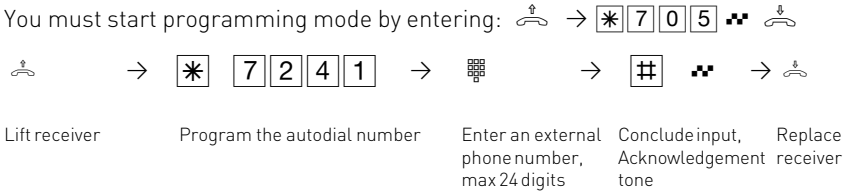
Auto Dialling (Hotline)

With this feature a pre-set number is dialled within 10 seconds after lifting the receiver. Calls can still be made normally providing dialling commences within 10 seconds.

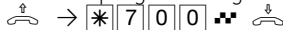
Switch Auto Dialling on/off



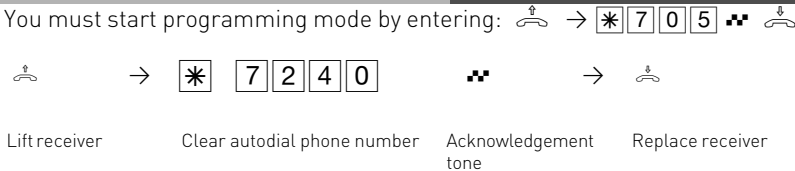
Storing a Number for Auto Dialling



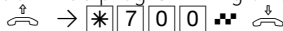
Continue programming or end the programming mode by entering:



Deleting the Number for Auto Dialling



Continue programming or end the programming mode by entering:



Analogue and ISDN-Phones

Notes

Check your Auto Dialling setting after programming the external phone number. Activate the Auto Dialling mode, lift the receiver, wait -until the external phone number is dialled and check that the right connection is -established.

The Auto Dialling function has preference over all other external connections. If necessary, one line (one B-channel) will be force released in order to complete autodial.

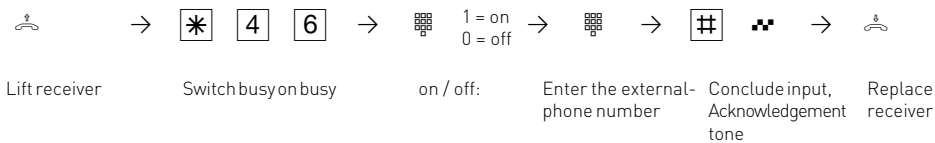
If the called party is busy, the telephone -system attempts to redial the external phone number every 10 seconds.It cancels Auto Dialling after 12 -attempts.

If you hear the error tone when you activate the Auto Dialling feature, no telephone number has been programmed.

If the Auto Dialling feature is on, you hear the special dial tone when you pick up the -receiver.

Busy on Busy

This feature is used in the following situation. If an incoming line is programmed to ring several phones, then each time a new call arrives the free extensions within the group will ring. If, however, for some reason your are the only one in the office and are already on a call then the next incoming call would cause the free extensions to ring. It may not be possible to answer the new call in time and therefore the caller may get the impression that no one is in the office. If Busy on Busy is set on the other hand than any extension within the ringing group who is on a call will cause for a new caller to hear busy tone. Note: This will not place restrictions on outgoing calls.



Notes

An ISDN terminal that is connected in parallel to the telephone system on a point-to-multipoint line and to which the same number as the system has been assigned will always ring, regardless if BUSY ON BUSY is active or not.

Analogue and ISDN-Phones

Voice Message Announcement








You can use your telephone system like an intercom, i.e. you can make a voice message announcement to system phones connected to the system in the form of a:

- Announcement to one, a group or all system telephones
- Announcement to a defined group of system telephones (see "Group formation").

The speakers of the system telephones receiving the announcement are automatically switched on, unless they are busy on another call.









You can also make a voice message announcement out of an external call.

Voice Message to a System Phone or Group

 →    →   → 









Lift receiver	Enter the announcement code	Enter the internal phone number of a system phone or group	Acknowledgement tone	Make the announcement
---------------	-----------------------------	--	----------------------	-----------------------

Voice Message to all system Phones


 →    →    → 

Lift receiver	Enter the announcement code	Announcement to all system-telephones	Acknowledgement tone	Make the announcement
---------------	-----------------------------	---------------------------------------	----------------------	-----------------------

Voice Message out of an External Call


 →  →    →   → 

You are conducting an external call	Inquiry	Enter the announcement code	Enter the internal phone number of a system-telephone or 00 for all system telephones	Acknowledgement tone
-------------------------------------	---------	-----------------------------	---	----------------------



Make the announcement

Notes

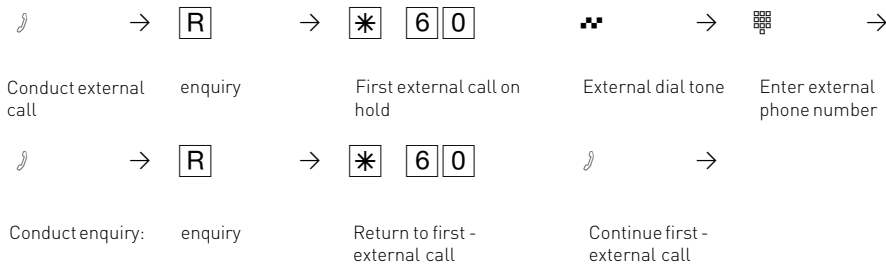
You can connect back to the external -subscriber after entering   if the -announcement party does not answer or is busy.

Analogue and ISDN-Phones



To place a Call on Hold

You can put a call on hold in order to make an enquiry call via the ISDN exchange, however this is only possible if your line is a Point-To-Multipoint connection. Note: This feature may not be available from your network provider. (not available from network providers in the UK)
This feature would allow you to make an enquiry call to another outside number even though no line (B Channel) is available. The call is put on hold in the exchange therefore releasing a line to be used to set up another call. You then can alternate between the calls by using the SPLIT button.

Place a Call on Hold (may not be available from network providers)



Notes

A call cannot be placed on hold in the exchange if you hear the error tone. You are connected back to the other call by entering .

When you replace your receiver, you will clear both calls, the current and the holding one. Call charges are incurred for the current call and for the one on hold.

Analogue and ISDN-Phones

Remote Dial Functions

With this feature it is possible to dial a number on behalf of another extension. (i. e. the Secretary for the Manager)

This feature must be enabled on the extension for which calls can be made.

At the time system phones only can set up calls for other extensions.




The following options are available:

- Remote Dial all (every extension can set up a call for you)
- Remote Dial off
- Remote Dial allowed from extension/group
- Remote Dial allowed via CTI
- Remote Dial switches system telephone to handsfree and dials number (system phones only).




Remote Dialling

The following options are available for analogue phones.

-Remote Dialling off/on (allow for all)




 → * 4 1 2 1 →  0 = off
1 = on → 

- Remote Dialling allowed from extension




 → * 4 1 2 2 →  nn → 

Enter the internal number

- Remote Dialling allowed via CTI per port

 → * 4 1 3 →  0 = off
1 = on → 

- Remote Dialling with automatic cradle switching
(system telephone dials automatically)

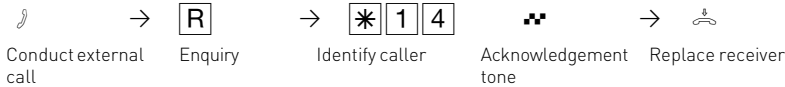
 → * 4 1 4 →  0 = off
1 = on → 

Analogue and ISDN-Phones

Malicious Call Identification (MCID)

This feature will have to be supplied by your network provider. The ISDN exchange will store the callers number and the date and time of the call. This trace can be activated during the call or after the caller has hung up but must be activated before you terminate the call.

Tracing a Call



Notes

You can continue the call after **R*14**.
Until you return to the caller he will hear Music on Hold if applicable.
You hear the error tone if:
-Malicious Call Identification has not been made available by your network operator
OR
-when the caller could not be identified by the telephone exchange.

Conference

Three Party Conference via your Phone System

You can hold a three party conference with analogue or digital extensions of the system.
Or with one external call and one extension
Or with two external calls. Note you will use 2 lines (B Channels)











Three Party Conference via the ISDN Telephone Exchange (PTMP lines only)

Note this service is a feature of the Telephone Exchange and may not be available.











To establish a three party conference via the exchange you must first establish the call with the first party. Then hold the call in the exchange to establish an enquiry call on the same line to the second party after which you will switch to a three party conference.

Analogue and ISDN-Phones















Three Party Conference (with two other extensions)

	→			→		→						
You are conducting an internal call		Enquiry, enter internal phone number			Conduct inquiry call		Enquiry, enter conference code					Acknowledgement tone, Conference with three parties

Internal - External Three Party Conference

	→			→		→						
You are conducting an internal or - external call		Enquiry, enter „9~“ and external or internal phone number			Conduct inquiry call		Enquiry, enter conference code					Acknowledgement tone, Conference with two internal users and one external subscriber




ISDN Three Party Conference

	→		→					→		→	
Conduct external call		Enquiry		First external call on hold in the exchange			External dial tone		Enter external phone number		
	→		→								
Conduct inquiry		Enquiry		Code for ISDN three-party conference			Acknowledgement tone		Three-party conference with two external subscribers		


Notes

Three Party Conference via the Telephone System.

An incoming – or doorphone call will be signalled to the conference with the call waiting tone if the called extension is part of the conference.

The Pick Up of a call is only possible by the extension who established the conference (Conference Manager) by pressing . The conference manager can pick up a door call by entering . The other members of the conference are put on hold until the conference manager has finished the enquiry call by pressing  after the conference is re established. If an extension replaces the receiver then that extension is disconnected from the conference and can only be re invited via the conference manager. The conference is cancelled as soon as the conference manager replaces the receiver.

Conference circuit via the ISDN exchange

Call charges are incurred for every participant of the conference. If you hear an error tone instead of an exchange dial tone, then the holding of a call in the exchange is not possible. Press  to return to the original call. You end the conference by replacing the receiver. You are connected to the party that you last invited into the conference. The first called party is put on hold.

Analogue and ISDN-Phones








Least Cost Routing (LCR)

This feature will make use of various network providers offering cheap call rates. Calls are routed depending on the STD Code dialled which is also dependent on the time and day of the week. If it is not possible to connect to the relevant provider after a preset number of attempts then the system will try to route the call via a preset alternative provider. (Fallback)

The access code of the relevant provider will be prefixed by the system to the number dialled.

The Least Cost Routing can cater for up to 8 network providers in 8 time slots depending on time of day and day of week. Least Cost Routing can be programmed with TK-LCR on your PC. Least Cost Routing can be switched on or off on your extension.

Switching Least Cost Routing on/off

	→				→		1 = on 0 = off		→	
Lift receiver		Code for LCR				on / off:		Acknowledgement tone		Replace receiver

Notes

You can still select which network provider is used for your call despite LCR being enabled.

- Simply prefix your number with the network access code
- You can also select the network provider with the function button CALL BY CALL on a system phone. (see also Network access code -Call by Call).

The network access code for the network operator is only stored in the last number redial memory if this has been dialled manually before.

Important! Not all ISDN features described may be available. Please check with your network provider for availability.

Parking a Call

You can park an external call in the system and retrieve this from another extension.

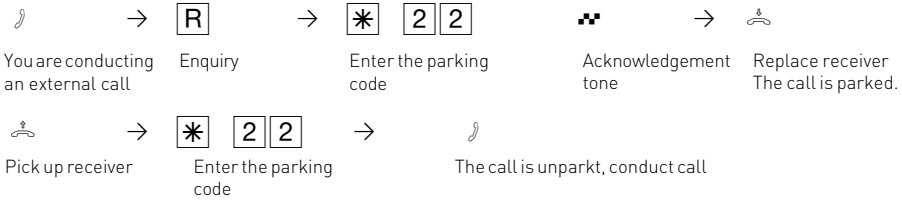
The parked call will engage the line (B Channel). The parked caller will hear Music on hold (if enabled). Calls parked will recall your extension within 4 minutes if it has not been retrieved.

Calls can also be parked or retrieved with an index number. This feature is useful if several calls are parked at any time.

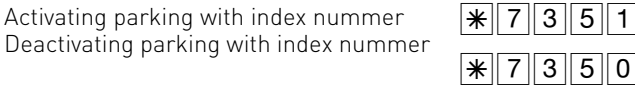
This function can be activated in the configuration section 'other functions' or via a program entry on the phone.

Analogue and ISDN-Phones

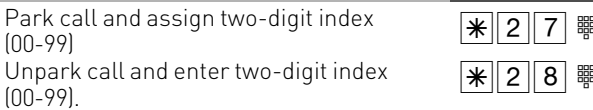
Parking / Retrieving a Call



Activating/deactivating Parking with Index Number



Parking/ / Retrieving a Call with Index Number



Notes

You can retrieve a parked call from any telephone.
On the standard phone dial ***22** to retrieve a parked call. If several calls are parked then the first one will be returned. Outgoing call incur charges when parked.

Baby Listening / Room Monitor

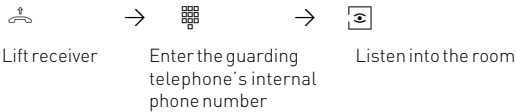
Any phone can be used for this feature (system- or standard phone) The phone set to Room Monitor (Baby Listening can be called from any telephone either internal or external). A system phone when called will switch on the microphone automatically. This feature must be enabled for the phone intended to be used as as monitor. You can select whether or not a warning tone sounds when listening into a room. The monitor phone can be called from any phone either internal or external. Please refer to the instruction manual chapter 'Room monitoring from an analogue phone' on how to access this feature from an external phone.

Analogue and ISDN-Phones

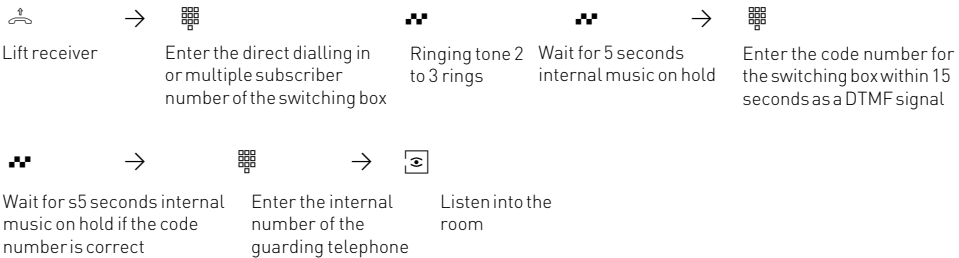
Set Up Room Monitor



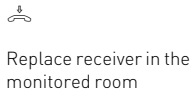
Calling the Room Monitor Extension



Calling the Room Monitor Extension from external



Cancelling room monitoring



Notes

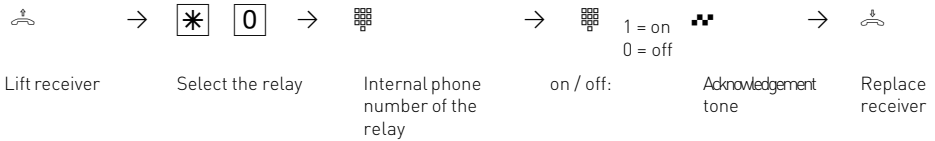
You can also use a telephone in the hands free mode as the guarding telephone. You cannot use an ISDN telephone on the internal S0 bus as a guarding telephone. The internal phone number of the switching box must be entered as the only internal phone number in the call variants (ringing distribution settings) of one multiple subscriber number. If you hear the busy tone after dialling up the guarding telephone, the room is already being monitored by another caller. Within 15 seconds you must enter the right code number as a DTMF signal with a DTMF hand-held transmitter or telephone as otherwise the telephone system will clear the connection. Please note, you can also be heard at the monitored phone.

Analogue and ISDN-Phones

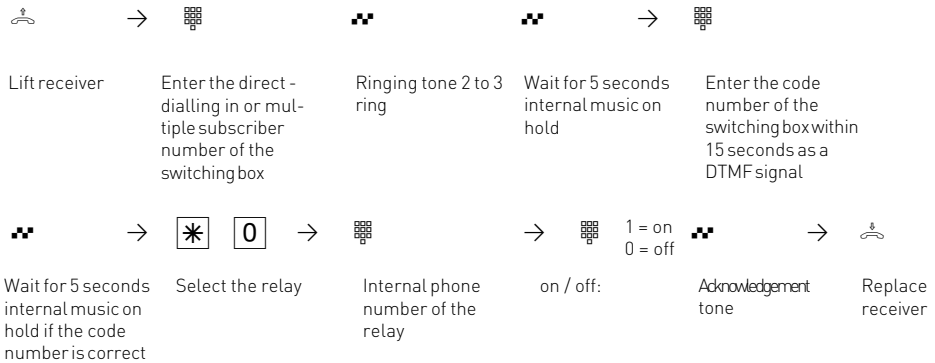
Switching Relays

The telephone system has two potential free relays R1 and R2 which can be switched remotely. You could activate a bell or another door opener.
If no door phone TFE 1 (FTZ 123 D12) is connected to the telephone system then the relay contacts T0 (relay R3) and TS (relay R4) can also be used for other functions.

Relay on / off



Relay on / off from external



Notes

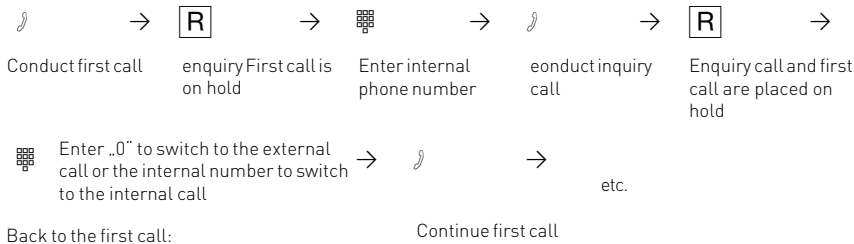
The internal phone number of the switching box must be entered as the only internal phone number in the call variants (ringing distribution setting) of one multiple subscriber number.
You must enter the right code number as a DTMF signal with a DTMF hand-held transmitter or telephone within 15 seconds as otherwise the telephone system will clear the connection.

Analogue and ISDN-Phones

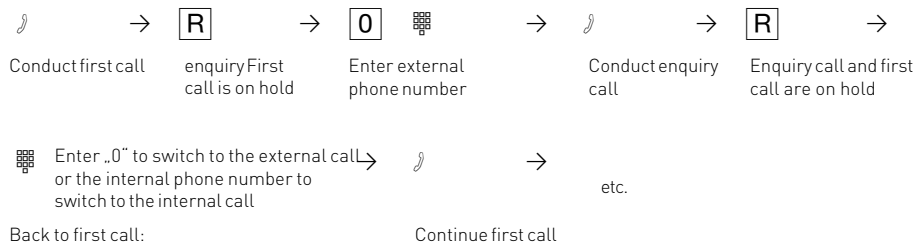
Enquiry

You can place your current call on hold, while you talk to an extension or another external call. The caller on hold will hear Music on Hold and can not overhear your conversation. Whilst on an enquiry call you can use all functions such as telephone book, paging etc.

Internal Enquiry

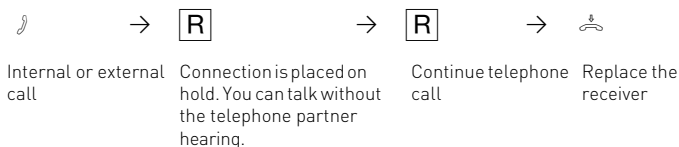


External Enquiry



Enquiry (Mute)

To talk to another person in the room without the caller being able to hear:



Analogue and ISDN-Phones

Notes

When making an external enquiry / brokering you must always seize the outside line by pressing „0“, even if spontaneous outside line seizure with internal is set on the telephone. An outside caller will hear Music on Hold if placed on hold.

If you replace the receiver during an enquiry:

- You clear the current call,
- You receive a callback if a call is still on hold,
- You transfer an external call on hold to the internal user with whom you were in an enquiry.

Connection charges are incurred for the external call, even while the call is on hold.

Automatic Call Back

You can set up an automatic call back if the number you are calling is busy. This feature is only available to subscribers of ISDN lines. Your phone will ring as soon as the called party replaces the receiver. The other party will be called automatically as soon as you pick up your receiver.

Set Up Call Back



Lift receiver



Set Up Callback



Acknowledgement
tone of the
exchange

Replace
receiver

Notes

If you hear the error tone then it will not be possible to be called back from the busy number. The feature Call Back on busy is not available from the telephone exchange. The feature will be cancelled if you do not answer the returned call within 20 seconds.

Call Back will be cancelled if the Call Back feature is completed or failed to connect the call after 45 minutes.

Analogue and ISDN-Phones

Storing and Dialling Phonebook Numbers (Central Dialling Memory)

You can centrally store up to 1000 important external phone numbers and affiliated names in the telephone system. These telephone numbers can be retrieved from any analogue phone.

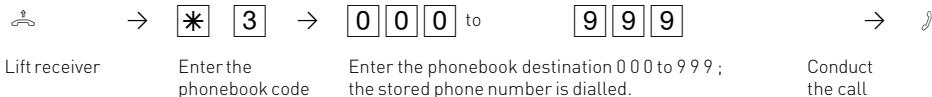
As well as normal phone numbers you can also store code digit procedures in your phonebook using the ***** and **#** keys. This means you can then use all the procedures on telephones which do not support the ***** and **#** keys.

Numbers in the Phone Book can be retrieved alphabetical, numerical or as vanity dial. Vanity dialling: With the Vanity dialling you do not have to remember the location of the speed dial number in the phone book. Just enter the name.

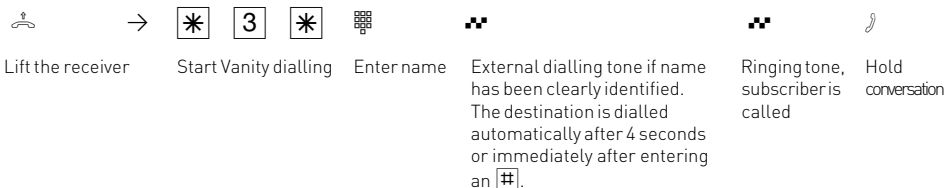
Example: Select entries in the phone book with

Dellmann	D ⁰¹ 3 E ⁰¹ 3 L ⁰¹ 5
Diener	D ⁰¹ 3 I ⁰¹ 4
Edner	E ⁰¹ 3 D ⁰¹ 3 N ⁰¹ 6 E ⁰¹ 3
Fenlo	F ⁰¹ 3 E ⁰¹ 3 N ⁰¹ 6 L ⁰¹ 5

Phonebook (Numeric retrieval)



Phonebook (Vanity retrieval)



Analogue and ISDN-Phones

Notes


You can set in the configuration of the system, if extensions which have no line access can dial numbers from the phonebook.


If your extension is barred, then you cannot dial numbers from the phonebook which fall into this category. You will hear error tone.

If a number has been stored without a name in the phone book, then the only method of retrieval will be numeric.




If the Phonebook location has no entry, you will hear an error tone.

Phonebook - storing a number



Programming mode must be started by entering :  → *705  

 → *711 → 000 bis 999 →



Lift receiver Enter the phonebook programming code Enter the location of the number to store


 → #  → 

Enter an external phone number without „9“ (outside line seizure) Confirm input Acknowledgement tone Replace receiver



Continue programming or end programming mode by entering:  → *700  

Phonebook - clearing a phone number

Programming mode must be started by entering :  → *705  

 → *710 → 000 bis 999

Lift receiver Enter the code for clearing and entry Enter the location of the number to clear

 → 

Acknowledgement tone Replace receiver

Continue programming or end programming mode by entering:  → *700  

Analogue and ISDN-Phones

Telephone lock - direct call (baby call)

You can protect your telephone against unauthorised use by locking it.

If your telephone is locked, you can:

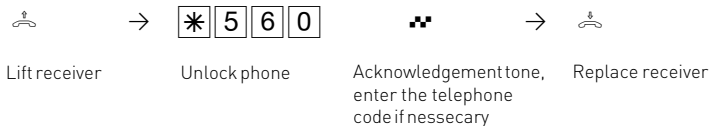
- only call extensions
- accept all incoming calls and transfer them to extensions
- only call the stored emergency and direct call phone number.

In addition you can use automatic dialling (Hotline) but this feature must have been enabled before locking your phone. If you have programmed a PIN number for your phone, then this must be entered to either lock or unlock your phone.

Locking your Phone



Unlocking your Phone



Notes

Enter telephone PIN?

If you hear the acknowledgment tone after entering the code, no telephone code has been programmed for your telephone. There is no need to enter the telephone code. If you hear the error tone, the last input was wrong. Begin the input again.

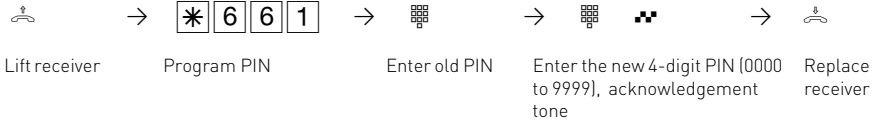
If you do not hear any tone after making -inputs, a telephone code has been programmed for your telephone.

Enter the 4-digit telephone PIN. If the code is correct, you will hear the acknowledgment tone. If the PIN is wrong, you will hear the error tone. Replace the receiver and begin the complete input again with the right telephone PIN.

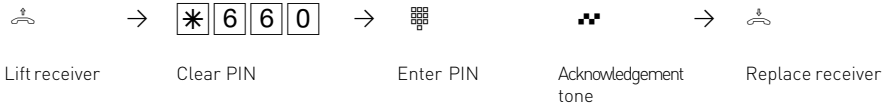
ISDN-Phones - Looking via -procedure is not possible.

Analogue and ISDN-Phones

Programming Telephone Lock (PIN)



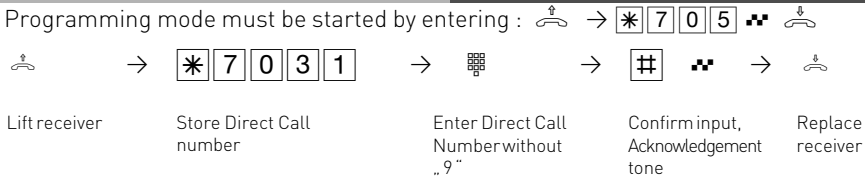
Clearing Telephone Lock (PIN)



Direct call (Baby call)

The Telephone is locked. When any button is pressed, the number stored as the direct number is dialled. The emergency call/direct call function has priority over all outside connections in progress. If necessary a call in progress will be force released in order that the emergency call can be set up.

Store a Direct Call Number



Continue programming or end programming mode by entering: [Grid] → [*][7][0][0] [Dial tone] [Grid]

Clear the Direct Call Number



Continue programming or end programming mode by entering: [Grid] → [*][7][0][0] [Dial tone] [Grid]

Analogue and ISDN-Phones

Notes

The „Telephone Lock- Direct Call (baby call)“ feature cannot be used on ISDN telephones.

Timer Functions

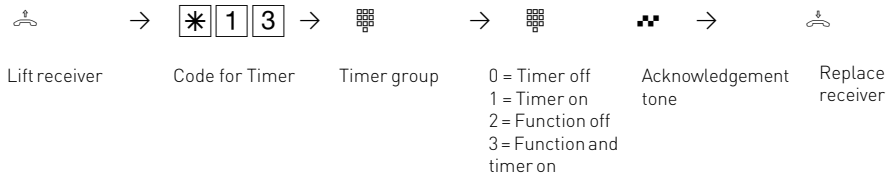
The telephone system has a total of 10 timers. These can be used to activate certain functions at specific times. The following features can be time controlled:

- Day / Night Service
- Internal call forwarding
- Busy on Busy
- External line access
- Telephone lock
- Disable Call Waiting
- Relays
- Diversions

You can assign a function to any timer.
The timers can only be programmed in the “TK-Set ”program.

Timers can be switched on or off manually from any phone for example the Office closes early and therefore night service needs to be switched on prior to the set time.
Several timers can be grouped into one so that they can be activated simultaneously.

Activating/deactivating Timers



Analogue and ISDN-Phones

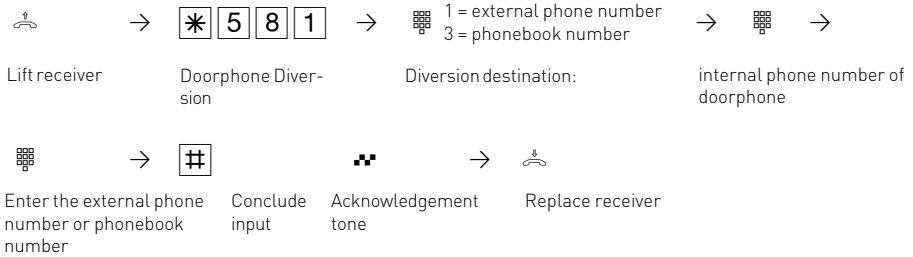
Doorphone Diversion to External Number

You can divert your doorphone to any external number, including mobile, if you want to be contactable by a visitor even though you are not in the building. Regardless of the set diversion the internal extension will still ring and can also be answered by the extension.

If you divert to an ISDN terminal capable to display the calling number, then the identification of a doorphone call is possible and you can answer accordingly.

You can also enable or disable a programmed doorphone diversion from any external telephone. For instruction on how to do this remotely please refer to the user manual for analogue phones section 'Diverting a doorphone to an external number.'

Programming Doorphone Diversion

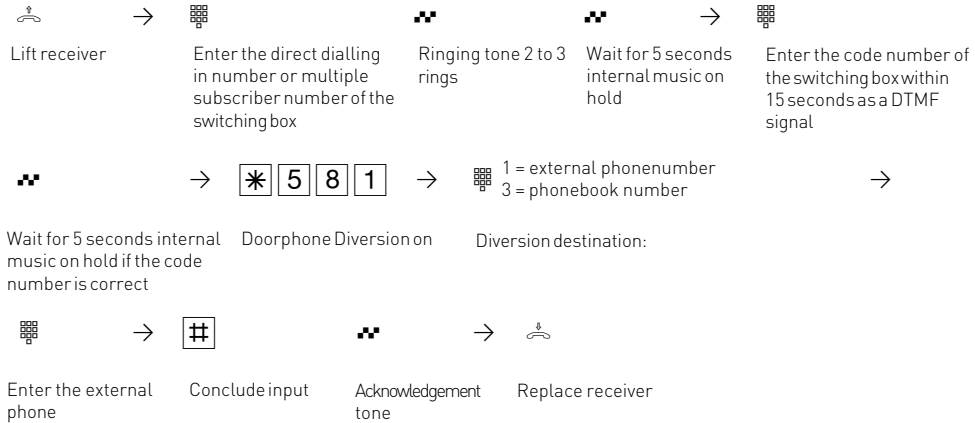


Doorphone Diversion off



Analogue and ISDN-Phones

Doorphone Diversion on / off from external



Notes

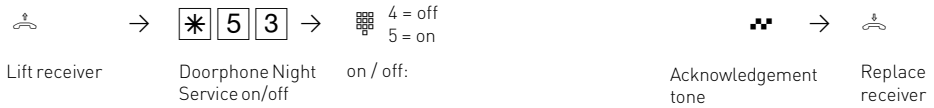
The external number will ring for 30 seconds, after which the call is cancelled. The external Doorcall will be disconnected after 10 minutes. The door opener cannot be activated from a diverted call.

Switching over the door call variant

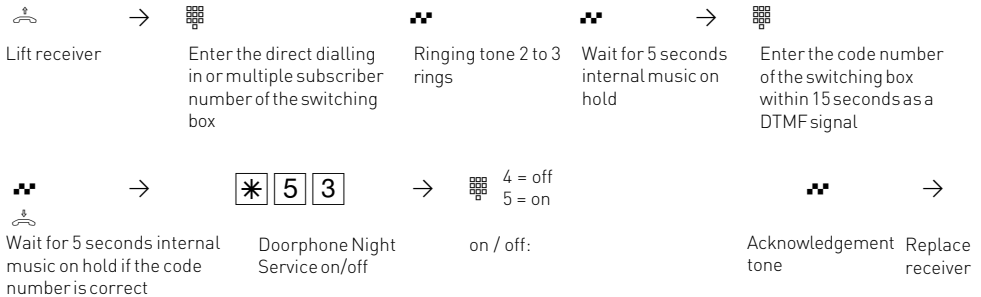
Which phones are to ring when the bell push is pressed are set with the doorphone setting variant 1 and 2, day- night service call distribution setting. The doorphone class of service can be switched from any telephone, internal or external. If you change this from an external number then you have to dial the switch box which can be accessed via a DDI number on a PTP or a MSN number for a PTMP line. If Night Service has been switched off, then Day Service is enabled.

Analogue and ISDN-Phones

Doorphone Night Service on / off



Doorphone Night Service on / off from external



Notes

If the selection „ext. all“ is set up when Night Service is switched on/off, Night Service is switched on/off at the same time.

Analogue and ISDN-Phones

Operating the Doorphone and Door opener

You can speak to someone at the door if your system has a doorphone (TFE) connected to it. Your phone will ring with a distinctive ringing sequence if a visitor presses the bell push at the doorphone.

The doorphone will be answered as soon as you lift the receiver on your phone. You also can activate the door opener from your phone whilst speaking to the doorphone. You can also Call Pick Up a doorphone call that rings at another extension. Your extension will be busy during the connection to the doorphone.

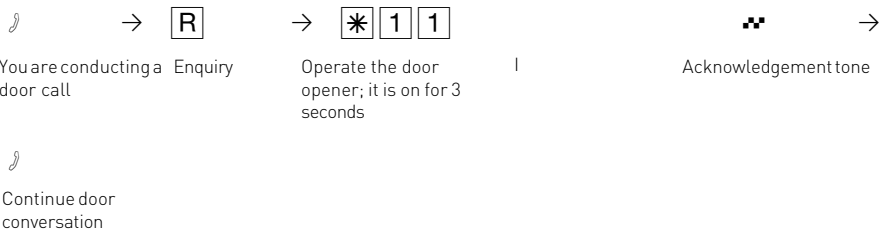
Answering a Doorphone Call



Calling the Doorphone / Picking Up a Doorphone Call



Operating the Door opener during a call

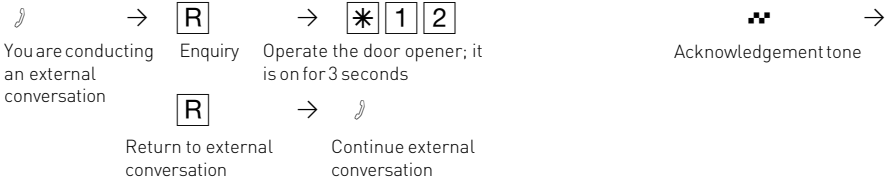


Operating the Door opener directly



Analogue and ISDN-Phones

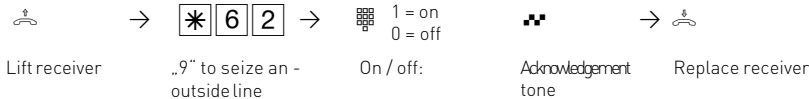
Operating the Door opener during an external conversation



Sending a caller's phone number on the internal S0 bus

When an external ISDN subscriber calls, the telephone system is transmitting the caller's phone number to the called ISDN terminal (ISDN telephone or PC with an ISDN card) on the internal S0 bus. On the ISDN terminal, you can specify that the telephone system adds a „9“ for seizing an outside line before the communicated phone number. If you have stored a phone number in this way, you can dial it automatically from the call list of an ISDN telephone or an ISDN PC.

Outside line seizure - „9“ on / off



Notes

This setting is only recommended if you have set „outside line seizure 9“ on the ISDN terminal. This setting is not necessary if you have set „spontaneous outside line seizure with internal“ or „spontaneous outside line seizure“ on the ISDN terminal.

Sending CLIP or COLP

The telephone system transmits your phone number to another ISDN subscriber before the connection is established (default setting of the system). Two types of settings are available within the ISDN network:

Forwarding the telephone number to the called party (CLIP = Connected Line Identification Presentation)

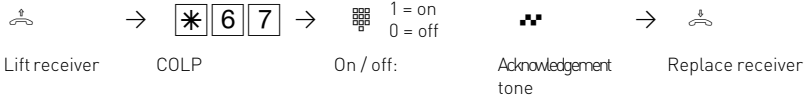
Your telephone number will be forwarded to the subscriber you are calling.

Forwarding the telephone number to the calling party (COLP = Connected Line Presentation)

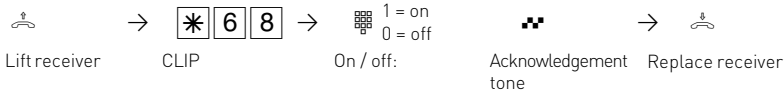
Your telephone number is forwarded to the subscriber calling you. This ISDN feature will have to be ordered from your network provider.

Analogue and ISDN-Phones

Setting COLP to on / off



Setting CLIP to on / off



Notes

Your complete number will be send to the network consisting of STD Code and DDI number or STD Code and MSN number, depending if the line is for system access (PTP) or standard access (PTMP). You must transmit a valid number belonging to you. If you transmit a number which is outside your allocated range then the telephone exchange will automatically replace this number with the main number allocated to the ISDN 2 e circuit. Call charges cannot be billed by Network provider under seperate MSN numbers Therefore change to the following.

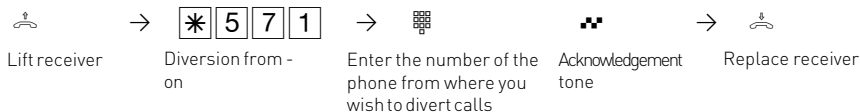
To transmit a specific MSN number back to the exchange dial the following without 9

*00 -MSN-# -external phone number.

Diversion from - Divert other Extensions

You can divert other extensions to your own which may momentarily not be staffed. After the diversion is enabled, the diverted phone will not ring for any further calls. Calls can still be made normally from the diverted extension. A special dial tone will remind the diverted extension that a feature is enabled.

Diversion from - on



Diversion from - off



Analogue and ISDN-Phones

Notes

Calls can only be diverted once. Calls diverted to you are ringing your extension only even if you have set a 'Diversion to' on your phone.
A "Diversion from" a phone where the Do Not Disturb feature has been set to your extension is possible.
Returned Calls, Wake Up and Appointment calls cannot be diverted.
Users of radio cells (base station with cordless telephones) cannot activate diversion.

Diversion to - diverting calls to another phone

Diversion via the Phone System

You are able to divert all calls for any phone either to another extension or via the second B channel to any number worldwide. Following options are available:

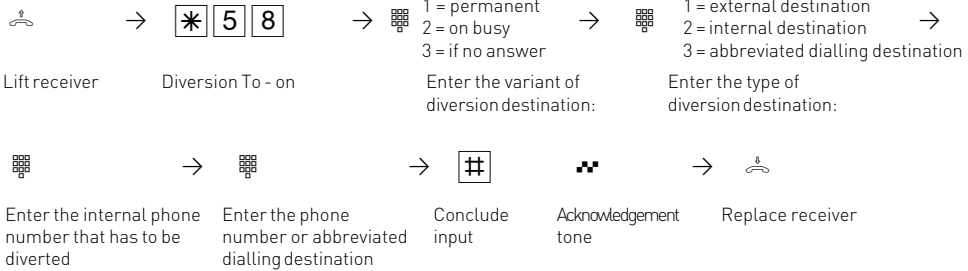
- Divert all Calls
- Divert when Busy
- Divert no Answer (after 15 seconds)

The diversion to an external number can also be set up remotely from any number worldwide.

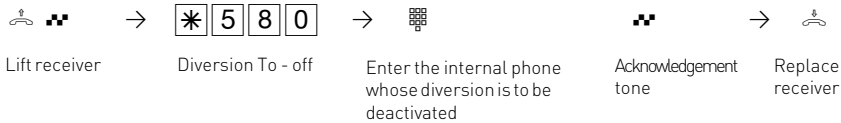
After the diversion is enabled, the diverted phone will not ring for any further calls. Calls can still be made normally from the diverted extension. A special dial tone will remind the diverted extension that a feature is enabled.

Analogue and ISDN-Phones

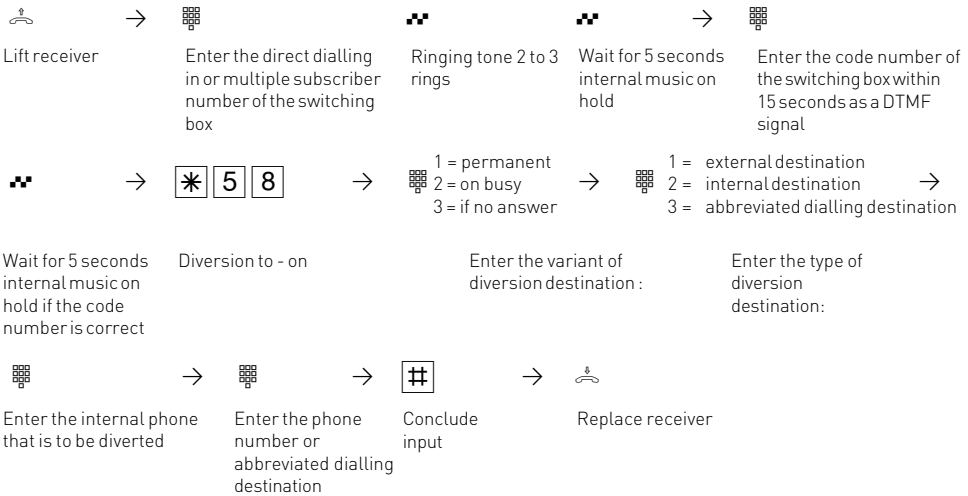
Diversion To - on



Diversion To - off



Configuring Diversion to from external (example: diversion to - on)



Analogue and ISDN-Phones

Notes

A diversion will not be carried out if the call to be diverted has already being once diverted. Diversions to an extension were Do Not Disturb is set are not possible. Returned calls, Alarm and Appointment Calls cannot be diverted.

Diversion to external subscriber:

A line must be available for diversions to an outside number.

The diverting extension must have the correct line access level set in order to establish a diversion to an outside number. You will have to pay call charges for diverted calls.

Call Forwarding

Diversion via the public switched telephone network. Call forwarding can only be setup if this feature has been ordered from your telephone exchange. If call forward is carried out on a Point to Point (PTP) connection then the entire line including all DDI's are forwarded. To forward individual DDI numbers via the telephone exchange and without busying your second B Channel you must have the feature PARTIAL RE-ROUTING enabled in the program of the telephone system.

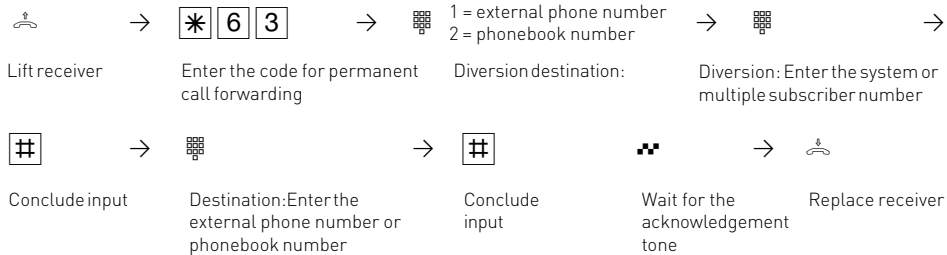
Using this feature on a Point to Multipoint (PTMP) then partial re-routed does not need to be set as each individual MSN can be diverted. When using a call forwarding button on your phone you can select the line to be forwarded.

Call forwarding can also be programmed remotely from any telephone who can dial your system. For instructions on how to activate call forwarding remotely, please refer to your user manual for analogue extensions under the heading 'Diverting to....' A destination telephone number must have been programmed if you want to switch on or off call forwarding via a feature button. The following types of call forward are available.

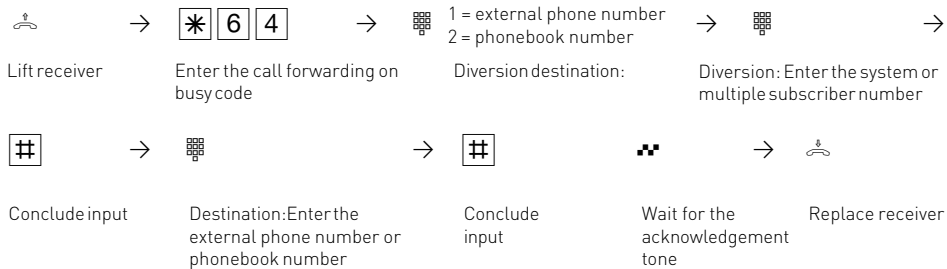
- Forward all calls
- Forward on busy
- Forward on no reply

Analogue and ISDN-Phones

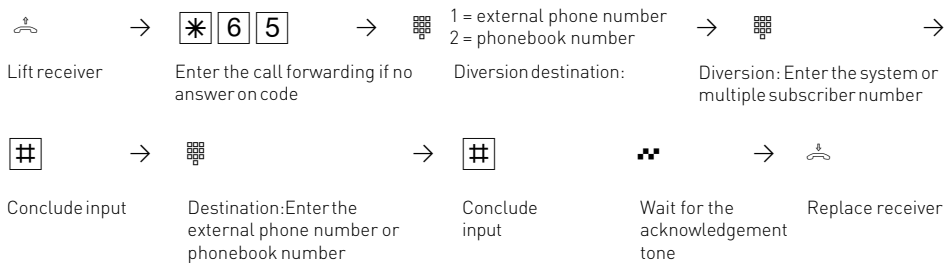
Permanent call forwarding - on



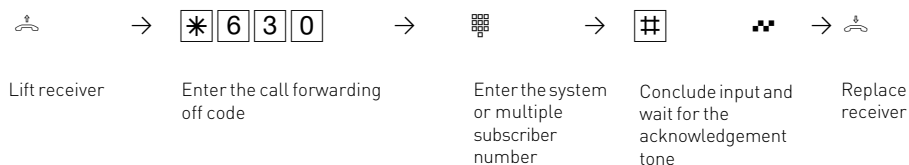
Call forwarding on busy - on



Call forwarding if no answer - on

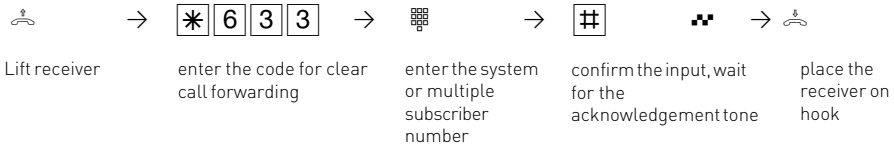


Call forwarding - off



Analogue and ISDN-Phones

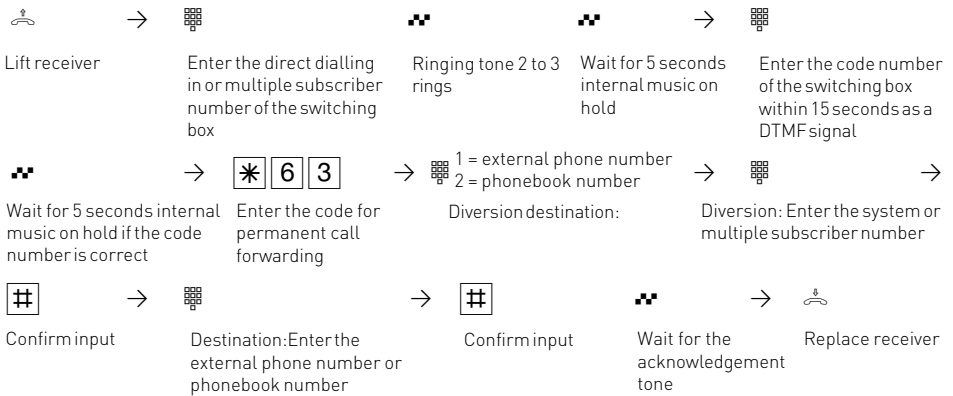
Call forwarding - clear



Notes

You can only program a call forwarding destination if this has not already being forwarded. Outgoing calls are unaffected if call forwarding has been set. You will hear a special dial tone from the telephone exchange whilst this feature is enabled.

Configuring Call forwarding from external



Notes

When call forwarding is on, you hear the special dial tone of the ISDN exchange when you seize the outside line.

When you have configured call forwarding in the exchange, please note that up to a minute may pass between setting up and the acknowledgement tone. Do not replace the receiver during this time.

Call forwarding from an external location: please note that you can confirm inputs by pressing the **[R]** key instead of the **[#]** key.

Analogue and ISDN-Phones

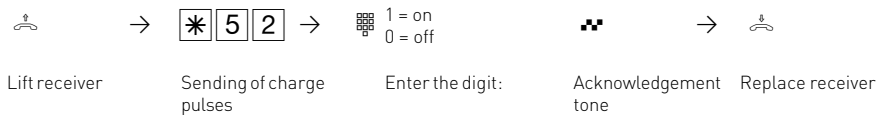
Display Call Charges on an analogue phone

On an analogue phone, you only can display call charges if the phone has a meter. To display call charges, you must activate communication of the charge pulses for your phone on your phone.

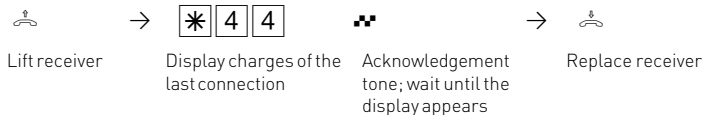
If you have requested the „communication of call charges during and at the end of the connection“ feature from your network carrier, your phone continuously displays the call charges during a connection.

You can display the charges of your last connection that are stored in the telephone system at any time. To do this, it suffices if you have requested the „communication of connection charges at the end of the connection“ feature from your network carrier.




Sending of charge pulses on / off



Display charges of the last connection



Notes

If you wish to display the charges of the last connection by entering    , please note that your telephone's totalizer may total up the costs of the last connection.

For technical reasons, the data on the network carrier's invoice may deviate from the total call charges displayed by the telephone system. The charge units counter in the network carrier's exchange is always binding.

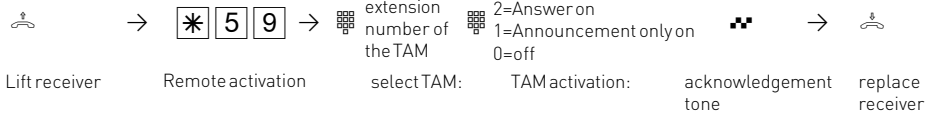
Analogue and ISDN-Phones

Telephone Answering Machine (TAM)

An AGFEO ST 30 system phone can be expanded with a 'A Modul 30' telephone answering machine. The answering machine can be switched on or off from any extension or remotely from any telephone number. The module can be recorded with two messages, one for normal operation and one for announcement only mode.

If the ST 30 is programmed with a primary and secondary extension number then the answering machine can answer each number with a different message in turn. (Like having two answering machines) The two extension numbers will work totally independent from each other and each machine can be switched on or off as required.

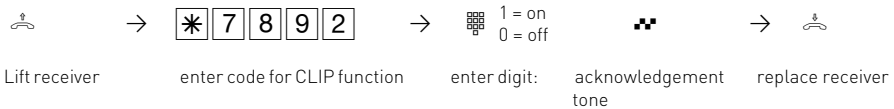
Switch on / off (from another extension)



CLIP - display caller's phone number

On analogue telephones which support the CLIP feature, you will see who is calling before you lift the receiver. For external calls, the caller's number and the date/time are displayed. The name is displayed additionally for internal calls. You have to set whether or not you want to use the CLIP function on the telephone.

Switching on CLIP

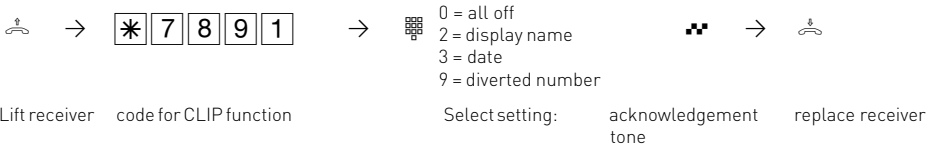


Analogue and ISDN-Phones

Extended CLIP functions

You also have the possibility of using various options of the phone number transmission which you can switch on for the whole system with a code number procedure.

- Clip off
- display phone numbers only
- display the name from the phone book (if available)
- display date and time as well
- in the case of an internal diversion, display for which connection the call was intended (this is only of interest for answering machines with a mailbox function, the answering machine can then activate the appropriate mailbox directly).



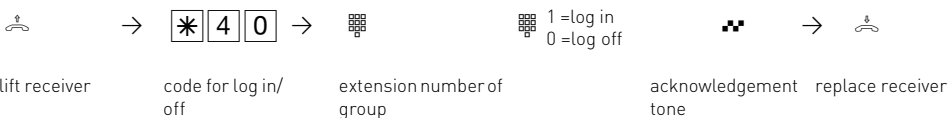
Groups

You are part of a group if your extension number has been allocated to a group number. (please refer to TK Suite).

You can log in or out of the group with the function.

The sequence of the call distribution is important (for even call distribution within a hotline for example) and will not change if a group member will log in or out of the group. A maximum of up to 20 groups can be formed and every extension may be a member of every group.

Log In / Log Out



The call sequence as defined with TK Suite will not change.

Analogue and ISDN-Phones

Callthrough

You may use the MSN of your switchbox as low-cost priority number for your mobile phone (ask your cellular provider).





When calling your switchbox from your mobile, you can use abbreviated dialling from your system's telephonebook. The telephone system will then connect the call.

You do not need to use a PIN number if you store your mobile phone number or the telephone number you will be calling from.



After gaining access to the telecommunications system via the switchbox you can operate every controllable function via **[*]** procedure remotely.

Entering/ clearing your mobile phone number





Programming mode must be started by entering :  → **[*][7][0][5]**  

 → **[*][7][7][9]** →  → **[#]**  → 

Lift receiver code mobile phone number enter mobile phone number confirm input, Clear: continue with making an acknowledgement tone replace receiver

Continue programming or end programming mode by entering:  → **[*][7][0][0]**  

Callthrough

 →   → **[*][3]** → **[0][0][0]** to **[9][9][9]** → 

Lift receiver enter number of switch box (your callthrough number), acknowledgement tone of the telecommunications system, when mobile phone number has been identified code for phone book Enter destination from phone book, the stored number is dialled hold conversation

Notes

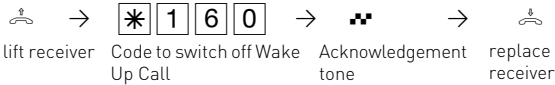
If you hear the busy tone instead of the ringing tone after dialling the destination, either the subscriber or the 2nd B-channel is busy. The busy tone is switched off after about 10 seconds and you can select another phone book entry from **[*][3]**.

Analogue and ISDN-Phones

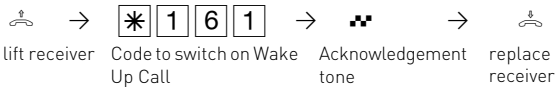
Wake Up Call – Repeated Appointment Call

You can place a Wake Up Call from your phone. The wake up call will be completed once you lift and replace the receiver. The Wake up call will ring your extension even if do not disturb is set.

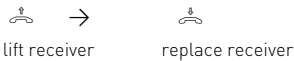
Switch off Wake Up Call



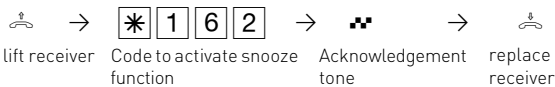
Switch on Wake Up Call



Receiving a Wake Up Call - stop Wake Up Call

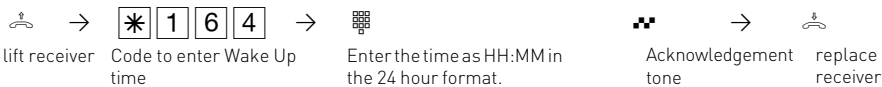


Receiving a Wake Up Call - activate snooze function



After completion of the procedure 'Continue Wake up call' the phone will ring every 10 minutes for a one hour period.

Enter Wake Up time



Delete Wake Up time



Programming your System

Programming your System

Programming via PC

After installation, your telephone system is prepared to enable you to immediately conduct telephone calls in the usual manner and to directly benefit from further advantages of the system. However, the system allows diverse programming possibilities so you can configure it to suit your very own personal needs. Without needing to have any knowledge of a programming language, you can program the telephone system from a PC connected via the RS 232 C interface or from a PC with an ISDN card connected via the internal S0 bus. Easy to understand menus will guide you through the system programming. The enclosed CD Rom contains the programming software.

System requirements

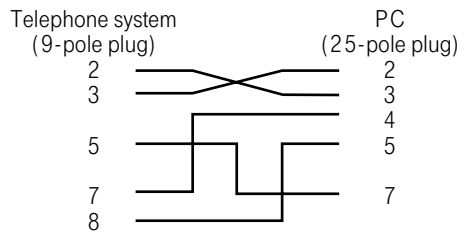
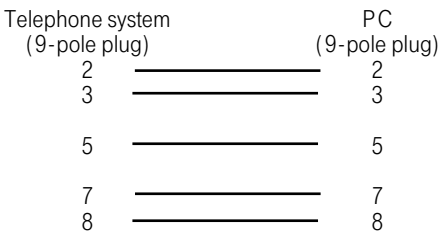
- IBM- or compatible PC with hard disk and CD ROM drive
- Pentium II 233 MHz or higher
- at least 64 MB RAM
- Microsoft Windows 98/2000/ME/XP
- RS 232 C-or USB interface

Connecting a PC

Connect the telephone system's RS 232 interface [D-SUB-9 socket] to the PC's COM port. Use a 1:1 V.24 plug socket extension lead for connection. It must not be longer than 3 m.


Start the configuration program.

Configure the telephone system. Your inputs are accepted interactively by menu prompting. After completing configuration, remove the cable from the telephone system








Programming your System

Programming from the system telephone or a/b telephone

After installation, your telephone system is prepared to enable you to immediately conduct telephone calls in the usual manner and to directly benefit from further advantages of the system. However, the system allows diverse programming possibilities so you can configure it to suit your very own personal needs. You can execute the programming instructions with the  procedure on the system telephone and on the a/b telephone.

General notes on programming from the system telephone

Initiating programming: the individual programming functions can be initiated in two ways:

- by pressing  and by entering a program number
- or initiate programming by pressing , scroll down by pressing 
- or scroll up by pressing  and select by pressing  (see programming tree).

Pay attention to the display. If the **setup code** is prompted, enter the 4-digit code (see „Protecting functions of the telephone system against unauthorised use“).


The display may show what you are able to enter.

Defined values are embraced in arrows, e.g.: 1 2→3 ←4 5 6 7 (to set the tone ringing volume).


A flashing cursor marks an input location.


To move the cursor to the right: 



To move the cursor to the left: 



Any existing input can be overwritten or can be cleared by pressing .

Confirming inputs:  (input is stored)


Accepting a displayed value without change: 


Clearing inputs:  (clear flashing input)

  Clear specific input)

  Shift key clear (clear complete input)

If you ever hear a beep (error tone), you have pressed a key that is not allowed for the current operating step. Have a look at the display to find out which input is required and try again.



Cancelling programming: press  several times (anything you have not confirmed by pressing  will not be stored).

- Time out: The programming is aborted automatically if you do not press a key for 60 seconds (everything which you have not yet confirmed with  is not saved).

Ending programming:  (all inputs are stored)

If a call arrives while you are programming:

Lift the receiver. Programming is cancelled.

- Everything you have already confirmed by pressing  is stored.
- Everything you have not yet confirmed by pressing  is not stored.

Programming your System

Notes on programming with * - procedures

Programming with the * procedure always covers the steps:
Start programming mode, input and exit programming mode.
When programming, pay attention to the dial tones or dial pulses in the handset. Wait after entering every digit until the digit has been dialed. Only then will you hear the acknowledge tone if your entry is valid or the error tone if your entry is invalid.
Recommendation: Use a DTMF telephone (touch-tone dialing) for faster programming.
You can press the loudspeaker button instead of „Lift handset“ or „Replace handset“ when programming on the system telephone.

Starting the programming mode

To be able to change settings you must first start the programming mode
Lift handset
Start programming mode
acknowledge tone or enter setup code
Replace handset
Enter setup code?
If you hear the acknowledge tone after *705, no setup code is programmed in the telephone system. It is not necessary to enter the setup code.
If you hear the error tone, the last input is wrong. Start the input again from the beginning. If you do not hear any tone after *705, a setup code is programmed in the telephone system.
Enter the setup code in 4 digits. If the code is correct, you will hear the acknowledge tone. If the code is wrong, you will hear the error tone. Replace the handset and start the whole input again from the beginning with the correct setup code.



* 7 0 5



Exiting the programming mode

After you have made all the settings, you exit the programming mode. At the same time you save the new settings. These are retained even in the event of a power failure.
Lifthandset
Exit the programming mode
Acknowledge tone
Replace handset



* 7 0 0



Programming your System

Adjusting the flash time

Analog telephones with tone dialling need a flash key, among others, to transmit calls (R key or Signal key). To adapt the telecommunications system to the different flash times of the telephones you can program the flash time range for your analog extension in the system. You will find the flash time of your telephone in the telephone's technical specifications.

To test whether the set flash time is correct:

- Set up an external call.
- Press the Flash key.
- If you hear the internal dial tone the time is correctly set.
- If the connection is cut the flash time is programmed too short in the system.

Adjusting the flash time for your own extension

Programming mode must be started with

*705!

Lift handset

Code for flash time adjustment Enter code for flash time range

2 = 50 to 200 ms

3 = 50 to 300 ms

4 = 50 to 400 ms

5 = 50 to 500 ms

6 = 50 to 600 ms

Acknowledgement tone

Replace handset

Continue programming or quit programming mode with *700!

Notes

You can adjust the flashtimes for analogue connections of the AS 181.



*788



Programming your System

Setting the ringer rhythm for incoming external calls

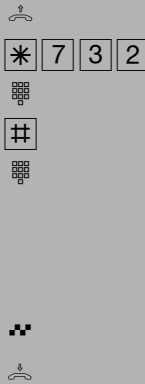
In order to distinguish between calls to different numbers, the phone numbers in the system can be assigned four different ringer rhythms instead of the normal external call ringer. The ringer rhythms are code rings 1 and 2, supplemented by code rings 3 and 4.

Programming mode must be started with *705!

Lift handset
Code for ringer rhythm setting
Enter number
End input

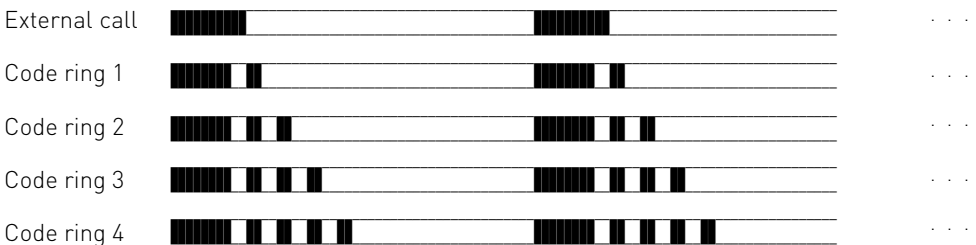
- 1 = Code ring 1
- 2 = Code ring 2
- 3 = Code ring 3
- 4 = Code ring 4
- 0 = External call

Acknowledgement tone
Replace handset
Continue programming or quit programming mode with *700!



Ring rhythms

All ringer rhythms for incoming calls begin with an initial 500 ms pulse, followed by a 2 second pause. This is a technical requirement to allow caller identification (Calling Line Identification Presentation - CLIP). Thereafter the ring can be programmed differently to distinguish between calls to different extension numbers in the system (see diagram).



The rings may be different, depending on the terminal equipment in use.
The code calls 3 and 4 are not signalled to analog ports that are set to type „radio cell“.

Programming your System

Variable call times of the TFE's

The call times of the TFE's can be set. You can select the call times freely between 10 and 240 seconds.

This is done by the following code number procedure:


The call time must be entered in 3 digits (e.g. 010 for 10 seconds)

The repetition mode of the call is also adjustable whereby you can choose between a single call sequence and the option of repeating the call sequence up to the end of the call time:

Enter the repetition mode

0: single sequence

1: call sequence repeated up to the end of the call time.

* 7 1 8 6 

* 7 3 8 4 8 

Protecting your system against unauthorised access (PIN numbers)

The Use of PIN numbers will secure the system from unauthorized access. PIN numbers can be set for the following sections:

System PIN - or main programming PIN. In default every user may program the system. You can deny this access by setting a four digit PIN number which has to be entered before the system can be programmed. In default this PIN has been preset to 2580 which is the middle row of the telephone keypad from top to bottom, however this PIN is disabled in the default setting.

Cost PIN - in the default setting every user can display and delete the call meters. This use can be restricted and call meters can only be cleared by entering a four digit code. In default the system is shipped with no PIN number set.

Switchbox PIN - You can gain access to your telephone system from any telephone in the world. Once access has been gained, you can use functions as if you would be an internal extension and as such can perform room monitoring, access the telephone book, (call through) or even switch relays on or off. To restrict this access you should set a PIN number. In default the system is shipped with no PIN number set.

Service PIN - or Remote Maintenance. This PIN will give access for the system to be programmed remotely. If this PIN is set then the maintainer can gain access to your system regardless of the origination of the call and you do not have to enter his telephone number. The condition is that you must have released the system for remote maintenance.

Programming your System

Enter PINs

System PIN

Set 9*1: Initiates Programming
 If the System PIN is required after pressing „9“ enter 4 Digit PIN.
 Switch on: „2“
 Switch off: „1“,
 „enter“, the actual code is shown in the display.
 Press „Clear“ to delete it
 Enter new 4 digit PIN
 Confirm with „enter“
 End Programming

Charge PIN

Set 9*2: Initiates Programming
 the actual code is shown in the display.
 Enter new 4 digit PIN
 or Press „Clear“ to delete it
 Confirm with „enter“ and End Programming

Switchbox PIN

Set 9*3: Initiates Programming
 the actual code is shown in the display.
 Enter new 4 digit PIN
 or Press „Clear“ to delete it
 Confirm with „enter“ and End Programming

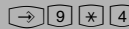
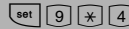
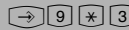
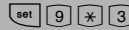
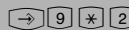
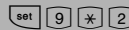
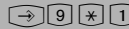
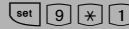
Service PIN

Set 9*4: Initiates Programming
 the actual code is shown in the display.
 Enter new 4 digit PIN
 or Press „Clear“ to delete it
 Confirm with „enter“ and End Programming

ST 25

ST 30

DECT 30



Programming your System

Enter System PIN

Programming mode must be started by entering:

*705

Lift receiver,





*7261,

enter 4 digit System PIN

Acknowledgement tone, replace receiver

Continue programming or end programming

mode by entering: *700!

 *7261   

Delete System PIN

Programming mode must be started by entering:

*705

Lift receiver, *7260,

delete System PIN

Acknowledgement tone, replace receiver

Continue programming or end programming

mode by entering: *700!

Enter System PIN?

If you hear the acknowledgment tone after

entering *705 no system pin is programmed. You don't have to enter one.

If you don't hear the acknowledgment tone after

entering *705 a system code is





programmed. Enter the 4-digit System Pin. If the

code entered is right, you hear the

acknowledgment tone. If the PIN you entered is

wrong, you hear an error tone. Replace receiver

and start programming again.

 *7260   

Enter Charge PIN

Programming mode must be started by entering:

*705





Lift receiver, *7281,

enter 4 digit Charge PIN

Acknowledgement tone, replace receiver

Continue programming or end programming

mode by entering: *700!

 *7281   

Programming your System

Delete Charge PIN

Programming mode must be started by

entering: *705

Lift receiver, *7280,




delete Charge PIN

Acknowledgement tone, replace receiver

Continue programming or end

programming mode by entering:

*700!

 * 7 2 8 0  

Enter Switchbox PIN

Programming mode must be started by

entering: *705

Lift receiver, *7251,




enter 4 digit Switchbox PIN

Acknowledgement tone, replace receiver

Continue programming or end

programming mode by entering:

*700!

 * 7 2 5 1  

Delete Switchbox PIN

Programming mode must be started by

entering: *705

Lift receiver, *7250,




delete Switchbox PIN

Acknowledgement tone, replace receiver

Continue programming or end

programming mode by entering:

*700!

 * 7 2 5 0  

Programming your System

Maintenance/Testing

These functions must only be carried out by a qualified service engineer.

- Display of the system type and of the software version number
- Set Service number
- System restart (user data is loaded new into RAM).
Some errors may be rectified with a system re-start. (user data will not be changed)
- Factory re-set. (**Caution: All data will be cleared.** System will be re-set to factory default)

System re-start and re-set of system may take up to 2 minutes.
The display also goes off briefly and programming is ended.

Programming your System

Running the Maintenance and Testing Programm

Software Version and System Type

Set 9#1: Initiates Programming.

Pay attention to the display: You must enter the 4-digit setup code if it is prompted after you enter the number 9. The software version and the system type are displayed.

End Programming

Set Service Number

Set 9#1: Initiates Programming.

Service number, which is able to remote control, configure or download new software after your permission (set *). If is Service number is already defined delete or change it

Enter Service Number

"enter":Confirm Input

End Programming

System Reset

Set 9#1: Initiates Programming.

"enter":Confir System Reset

All data is reloaded into Systems RAM, Programming ends automatically or

End Programming

Erase RAM

Set 9#1: Initiates Programming.

"enter": confrim System reset

You have to confirm again with „enter“ (All Data will be erased, the System will be resetted to delivery settings. This will take approx. 2 Minutes)

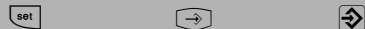
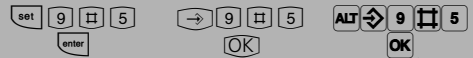
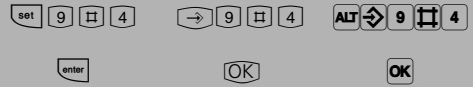
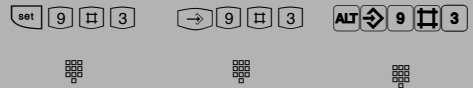
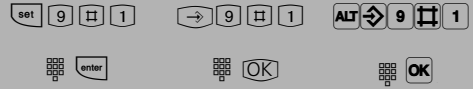
or

End Programming

ST 25

ST 30

DECT 30



Programming your System

Reset the System

Programming mode must be started by entering:

*705

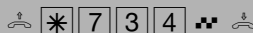
Lift receiver

Reset System

Acknowledgement tone, replace receiver

End Programming mode by entering: *700

The System will reset



Erase the Systems RAM

Programming mode must be started by entering:

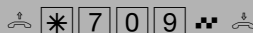
*705

Lift receiver

Erase RAM

Acknowledgement tone, replace receiver

The System will reset to delivery Settings



System phone registration

You may operate up to 2 System Phones on each internal SO of an AGFEO Telephone System. In programming every digital phone is registered with a primary and if applicable a secondary extension number. A system phone has been registered when it is first plugged into a socket. You do not need to re-register a digital phone if it is unplugged for a while and reconnected to the same SO Bus. However, you have to register the phone again should you plug this into a different SO Bus. Note: The extension number can be changed at any time.

Deregistration of System Phones

Please note, you should deregister a system phone if you unplug this to be connected to a different SO Bus, as otherwise the previous extension number cannot be reused.

Use the following procedure to deregister a phone: *9H62

Programming your System

Changing extension number of a system phone

set9#6: Start programming

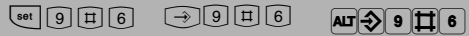
choose extension number with next

press enter to register the system phone with the highlighted number.

ST 25

ST 30

DECT 30



next



enter

OK

OK

Remote setting - Remote configuration

Your telephone system can be programmed remotely to your requirements. To allow remote maintenance you must set the telephone number from which your maintainer is calling. It is only possible to gain access to the system if the programmed number corresponds to the transmitted CLIP of the maintainers number. You may restrict access to the telephone book of the system. Your system can be programmed for up to 8 hours from the time you released your system for remote maintenance, after which it will lock again. You must end your own programming during the time in which the system is programmed remotely.

Programming your System

Remote Setting - Remote configuration

Set *:Inititates Programming

Enter Remote Telephone Number

Confirm with enter.You can decide if the setting is allowed without or

"next", with configuration of the phonebook.

end programming with set, remote configuration is allowed for eight hours.

ST 25

ST 30

DECT 30



enter Remote Configuration Number

lift receiver

remote telephone number

Enter Remote Telephone Number

replace receiver



Allow Remote configuration

lift receiver

allow remote configuration

1 = without phonebook

2 = with phonebook

acknowledgement tone

replace receiver



Programming your System

Downloading new software

The AGFEO ISDN Telephone System can be upgraded to the latest software version, without the need to change any hardware. New software can be loaded into the telephone system using a PC connected to the RS 232 c connection. Software can also be loaded via an internal SO Bus providing the PC has an ISDN Card. New software may also be loaded remotely by your dealer via the ISDN telephone line.

System requirements

- IBM- or compatible PC with hard disk and CD ROM drive
- Pentium II 233 MHz or higher
- at least 64 MB RAM
- Microsoft Windows 98/2000/ME/XP
- RS 232 C-or USB interface

Connect ion via RS 232 C Bus

- Connect the telecommunications system's RS 232 interface (D-SUB-9 socket) to the PC's COM port.
For connection, use the PC cable belonging to the telecommunications system or a one-to-one V.24 extension cable featuring a male and a female connector (mouse or joystick extension cable). It must not be more than 3 m long.

Save Configuration Data

- Start the "TK-Set" configuration program on your PC
- Read out all data of the system (F8).
- Save the data on the hard disk or on a diskette.

Update you software

- Unpack the Firmware Update Files into the "Updates" subdirectory of the TK-Soft directory on your hard disk (eg. "C:\TKSoft\updates").
- Start the "TK-Flash" update program
Refer to the online help for details of how to operate "TK-Flash".
The new software is now loaded into the telecommunications system. You cannot make any telephone calls during the load operation (approximately 5 minutes). You can observe the load process on the PC's monitor.
- End "TK-Flash".
- Clear the telecommunications system's memory from the system telephone or from an a/b telephone. (page 3-15)

Programming your System

Loading the telecommunications system's system data

ST 25

ST 30

DECT 30

Copy the stored system data back from the PC into the telecommunications system. The telecommunications system now operates with the new software.

Update Dect Module Firmware

You can Update your DECT Module Firmware by using the Menu System of the ISDN System.

For using the update function the DECT Module needs Firmware 1.1 or higher.

Make sure the number of the Update Server is configured

Start update with:






Programming your System

Advanced Users Programming



ST 25

ST 30

DECT 30

Select each program directly by pressing  and by entering the program number. You do not need to remember the program numbers. If you are experienced with programming trees, you can also navigate in the programming tree by pressing the  and  keys. The programming tree is illustrated on the next pages.

Programming tree- rules for use

You initiate programming by pressing the  key. If necessary by pressing the  key several times, you can then reach the program point you are looking for.

Every program has a program number. With this number, you can move directly to every program point, e.g. "do not disturb" has the number 12 (1 from the first level and 2 from the second) and you can move directly to "do not disturb" by pressing "set 12".

Initiate programming



Scroll to the next program point



Scroll to the next program point



Move back by one program point



or

enter the required program number, e.g. 12, do not disturb



Move back by one level



Cancel programming: Press "esc" several times



or

end programming "set"

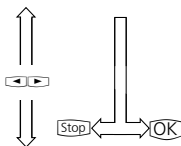


Programming your System

Programming tree



1 Function



- 1 Call Variant 2/ Dorr Call Variant 2 (NightSERVICE on/off)
- 2 Do not Disturb (internal/external, on /off)
- 3 Telephone Lock (on/ off)
- 4 Call waiting (on/ off)
- 5 Appointment Call (Time/ Date and activate)
- 6 Wake Up Call (Time, on/ off)
- 7 Diversion to (to extension / externalno., on/ off)
- 8 Diversion from (from extension, on/ off)
- 9 Call forwarding (on / off)
- 0 Room Monitor (on/ off)
- *Automatic Dialling/ Hotline (on/ off)
- # Busy on Busy (on/ off)

2 System Phone settings

- 1 Ringing Volume (Set)
- 2 Ringing Tone or Pitch (Set)
- 3 Display Contrast 1 Contrast
- 2 Background Light (ST30 only)
- 4 Remote dialling 1 Remote Dialling (on/off/extension)
- 2 CTI-dialling (on/off)
- 3 Automatic Call (on/off)
- 4 Automatic Mike (on/off)
- 5 Accustik Settings 1 Speaker Volume
- 2 Headset Volume
- 3 Receiver Volume
- 4 Mike Volume Handsfree (ST 30)
- 5 Mike Volume Receiver (ST 30)
- 6 Mike Volume Headset (ST 30)
- (enter)
- 7 Telephone Lock (PIN) 1 external Status
- 2 internal Status
- 8 Cost Display 3 Pop Up Menu
- 4 Worldtime Clock (ST 30)
- (German / English / . . .)
- 9 Status Display 1 external
- 2 internal
- 0 Display Language 1 direct access
- *Call Log 2 Call with receiver on hook
- # External Line access 2 Call with receiver on hook

3 Buttons / Names

- 1 Change Button assignment
- 2 Change extension Name

4 Destination Button

- Destination Button (Number / Name)

5 Phonebook

- 1 Phonebook store a number (Number / Name)
- 2 Phonebook change a number (Number / Name)
- 3 Phonebook delete a number (Number)
- 4 Enter Emergency Number (Number)
- 5 Enter Direct Call Number (Number)
- 6 Enter Automatic Dialling Number (Number)

Programming your System

Programming tree

6 TAM and SMS	Refer to Manual A Module 30
7 Charges	<ul style="list-style-type: none"> 1 Own Charges 2 Display/ delete Charges 3 Print Charges 4 Record Call Charges Start 5 Record Call Charges Stop
8 ISDN-Functions	<ul style="list-style-type: none"> 1 ISDN call forwarding (always/on busy/ on no reply) 2 Clip (on/ off) 3 COLP (on/ off)
9 Configure System	<ul style="list-style-type: none"> 1 Enter extension Numbers 2 Record AIS Announcements refer to AIS manual * Codenumbers <ul style="list-style-type: none"> 1 System PIN 2 Charge PIN 3 Switchbox PIN 4 Service PIN # Maintenance/ Test <ul style="list-style-type: none"> 1 Firmware-Version 2 Country Code 3 enter Service Number 4 System Reset 5 Erase RAM Reset to delivery defaults) 6 ST 25 / ST 30 <ul style="list-style-type: none"> 1 Version number 2 registration 3 deregistration 7 DECT <ul style="list-style-type: none"> 1 registration 2 deregistration 3 external Antenna 4 Repeater 5 Version 6 Module allocation 7 Module-Update 9 STE 30 <ul style="list-style-type: none"> 1 Status 2 registration 3 deregistration 4 Version number
* remote configuration	Remote configuration
# Version	Version (System Type / Firmware Version)

Communication via PC

Software Overview

The enclosed CD-ROM contains the following software: TK-Suite Basic or TK-Suite Configuration Tool and the TAPI and USB drivers. There is also the NDISWAN Driver for the AS 181. To be friendly to our environment we have not included printed version of the individual programs as help will be available in each program by just clicking on the question mark.

System Requirements

Following system features are required for the installation of the enclosed software

- IBM or compatible PC with hard disc and CD-ROM drive
- Pentium II with a processor speed of 233 MHz or higher
- 64 MB of available hard disc space
- Microsoft Windows 2000/ME/XP

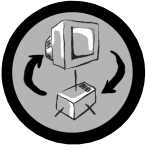
Should you like to run TK-Suite with several clients then we would like to suggest to use Windows 2000 or XP as platform of your server installation.

TK-Suite Server

TK-Suite Server contains the following components, TK-Suite Set, TK-Suite Bill and TK-Suite contact. TK-Server is a program which runs in the background under Windows ME and as a service under Windows 2000/XP. This means that you do not work directly with the program but with the TK-Suite-Client and an Internet Browser application.

Communication via PC

TK-Suite Set



You can program the telephone system from your PC with **TK-Suite Set**. Call forwarding, ringing rhythms, day/night service and all ISDN parameters can be set quick and easy. With **TK-Suite** set you can save the telephone system configuration on your hard disc. If required you can send this back up data back to the telephone system. (see Chapter "Programming of the Telephone System")

With the **LCR** component of TK-Suite Set you will be able to reduce call cost of your telephone system, provided your LCR table is kept up do date, by using the most cost effective service provider. Should this line be busy, then the automatic fallback function of the system will automatically select the next alternative service provider. A individual routing table can be created at any time to ensure cost effective phone calls. Should you like to take advantage to use a provider on a "call by call" * selection, without being registered to this or having an account, then this is also no problem. Up to eight providers with their dialling codes can be selected in a weekend profile. In addition you can select up to eight tariff tables.

*Network dependent

TK-Suite Bill



TK-Suite Bill is for the analysis of your call data. If your service provider should forward call charge information, then the software will record all call charges. TK-Bill will sort and calculate per extension, date, telephone number or customer. In addition a sort of all calls per providers is also available. TK-Bill will not only record calls cause a charge, but also records incoming calls.

TK-Suite Contact



TK-Suite Contact is your personal telephone and address book with multi user functionality. It is possible to import the phone book data of the telephone system into TK-Suite Contact. It works closely together with TK-Suite Client to give you a fully functional CTI working environment.

TK-Suite Client



TK-Suite Client serves to integrate all TK-Suite components in your desktop so that it is possible to access each tool per mouse click. In addition TK-Suite Client offers you a fully functional CTI workplace with the ability to call telephone numbers from TK-Suite Contact, display incoming calls and reminders with the resubmission function.

Communication via PC

Install TK-Suite

Start the installation routine of TK-Suite.

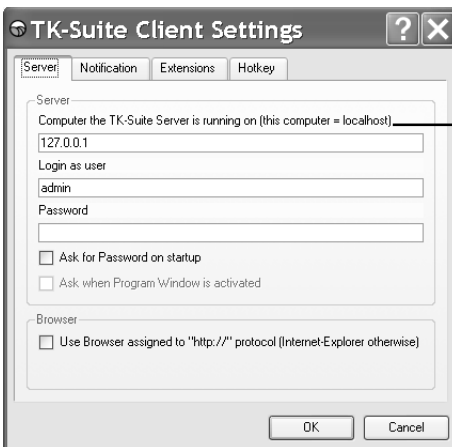
After you selected the installation folder and start up group, you will be asked from the TK-Suite Basic installation routine if the application should be installed as Single Work Station, Server – or Client version.



Select **Single User** if you would like to use the Telephone System with one PC only.

Select **Server** if you would like to use the Telephone System with more than one PC.

Select **Client** if you would like to use the Telephone System with more than one PC and have already installed the Server Version to which you have access. Please ensure that the User Setting has already been prepared on the Server for the Client.

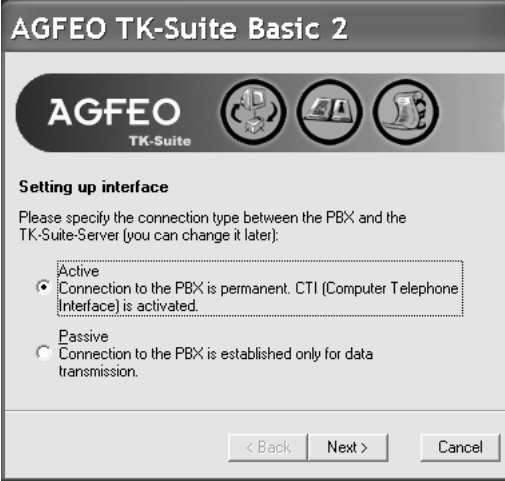


You will be asked for the Server Name, User Name and Password if you install TK-Suite Client to access TK-Suite Server on the network. Name and Password should have been allocated before in the TK-Suite Server version.

Communication via PC

Install TK-Suite

You select between an active an passive connection on installing TK-Suite Basic.



ACTIVE:

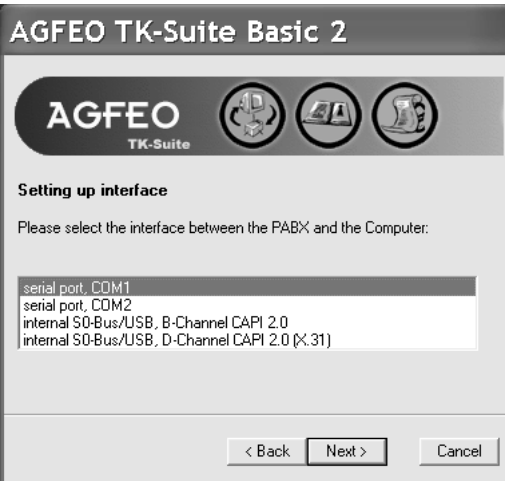
The connection to the Telephone System is permanent and the port to which the computer is connected is constantly in use and not available for any other application. A sensible choice for a Server or Single User if the CTI application should be used constantly.

PASSIVE:

The connection to the telephone system will only be established on programming or transfer of call charge data. The port may be used by other applications when not in use.

CTI is **not** possible with this setting.

Afterwards you may select the type of connection to the system:



- Com1 or Com 2 if you want to communicate via the serial port with the system.
- Internal SO/USB Capi 2.0 if you want to communicate via the USB or ISDN connection. This type of connection does not support CTI and will not be offered if you have selected "Active" before hand.
- X31 if you want to communicate with the system via the internal SO or USB connection and not to engage a speech channel of the internal SO of the system.

To use CTI you must communicate with the system either via the serial port or via the X31 protocol.

Communication via PC

WAN Miniport

WAN Miniport is a driver for Windows ME/2000/XP, in which you can use the dial up network via ISDN. In addition you are able to connect to the Internet and (via the Remote Access Service) connect computers with each other. Further information regarding the Dial Up Network can be found in the Windows documentation.

CTI – Computer Supported Telephony via TAPI-Connection

TAPI- (Telephony Applications Programming Interface) is unlike TK-Phone not a standalone CTI application but a connection between a TAPI capable Windows application and the telephone system. It is possible to control the telephone system with computer programs supporting this application. The extend of this control depends on the application used. In general it will include the set up of an outgoing call (Dial from the application) and the display of incoming calls.

TAPI is an interface of the Microsoft Operating Systems and the application of the Microsoft-Telephony-Interfaces. To connect the telephone system to this interface a Telephony Service Provider (TSP) from the ISDN hardware manufacturer, in this case AGFEO, is needed. The TSP is a driver which has to be installed on your PC. It will perform the requested TAPI functions and regulate the necessary data exchange between PC and the telephone system. The TSP has to be constantly enhanced due to the ever increasing functions of TAPI supported applications.

In order that you have the latest TSP to hand for your application we have made this available for download at our website at <http://www.agfeo.de>. This self extracting file contains information on installation and supported applications. Should you have no internet access, then please contact your dealer or the info fax on 0049 521 44709 98555.

Establish a USB Connection

You may connect the telephone system with a PC or Notebook via the USB connection. (Not supported with Windows NT 4.0)

1. Take the supplied USB Cable. You will identify this on the USB Symbol on the plug.
2. Plug in the square plug of the USB cable into the USB socket of the telephone system
3. Plug in the flat plug of the USB cable in one of the USB connections of your computer
4. Switch on your computer

On start-up of Windows with the telephone system, you will be requested to enter the location of the driver. More to this is in the chapter "Installation of Drivers"

Communication via PC

Driver Installation

IMPORTANT! Should you have already an ISDN card installed in your computer, then this and the associated driver must be first deinstalled. Please follow the instruction of the individual manufacturer for this. It may be that during the installation you will be asked to insert the CD of the operating system. Therefore it will be advisable to have this CD to hand. Before you can install the driver you must connect the telephone system to your computer via the USB connection.

1. Once the PC has identified the connected telephone system, the hardware assistant will be displayed. The hardware assistant will install the software for the new Hardware components . Click on "next"
2. In the following dialog window select find "suitable driver" for hardware (recommended).
3. Enable the option "CD-ROM Drive" and de-select all other check boxes. Insert the CD "Communications Software" with the USB Drivers in the CD-ROM drive and click on "next".
4. After the driver has been found click on next to start the installation.
5. Drivers being installed
6. Under ISDN Configuration please read the notification and click on "next".
7. Select the D Channel Protocol: "DSS1: Euro-ISDN" and click on "next".
8. Now you will be asked to enter the telephone number(s). Enter the extension number(s) of the PC connected to the USB port. All internal extension numbers will be available. (see also programming of system, port allocation) Click on "next".
9. The ISDN-configuration is completed. Click on "Finish"
10. Insert the Operating System CD if asked to do so, to install the USB support. After the software has been installed click on "finish".
11. Restart your computer to complete the installation.

If you want to change the extension number of the PC on the USB port afterwards:

Select "Start → Programs → Accessories → Communication → Assistant for the ISDN Configuration.

1. Under ISDN configuration read the notification an click on next.
2. Select the D Channel Protocol : DSS1 : Euro-ISDN and click on next
3. You will now be asked to enter the extension number(s). Enter the extension number of the PC on the USB port. (see also system programming port allocation) click on next
- 4 The ISDN Configuration is completed, click on finish
- 5 To complete the installation, please restart your PC.

Communication via PC

Deinstallation of Drivers

Should you now longer require the drivers, then you may deinstall these.
Remove the AS 181 in Control Panel. (Start/Control Panel/Add-Remove Programs)

Connecting to the Internet or another Network

Here you will find notes how to connect with the Microsoft Dial Up Network to the Internet or other Networks.

1. Open (Double Click) on the symbol "My Computer" on your desktop.
2. Open (Double Click) on the symbol "Dial Up Networking"
The Dial Up Network is automatically installed with Windows 98 standard installation. Should the Dial Up Network not be available within "My Computer" then you may add this component by selecting "Start → Settings → Software" . You will find information within Windows Help, Topic "Software"
3. If this is for your first connection, click next, otherwise double-click on "make new connection"
4. Enter in the assistant the name of this connection, i.e. your provider.
5. In "Select a device:" select "AGFWMP-Line 1" and click on next
6. Enter in the field "Telephone Number" the ISDN number to connect to your Internet Provider or remote Network and click on next.
7. Click on finish. An Icon will appear for this connection.

Configure a Connection

- 1 If the "Dial Up Network" is not opened: Double click on "My Computer" as displayed on your desktop. Open the "Dial up Network".
- 2 Open the dialog window in which you can configure the connection. Right click on the symbol of the earlier added connection and select "Properties".
- 3 Select the tab "Server Types". Complete the following steps:
 - if you set up a connection to the internet, deactivate "Log on to network"
 - activate "enable software compression"
 - for Internet connections activate the "Allowed network protocols" to "TCP/IP".

Communication via PC

Connecting to the Internet or other Network

After you have established the setting for your Internet provider or other network as described, you now can dial into it. If you want to surf the net or call off e-mail messages, then you must have installed a Web-Browser or an e-mail application.

Follow the following steps to establish a connection:

- 1 Open (double click) on "My Computer" on your displayed on your desktop
- 2 Open (double click) the icon "Dial-Up Networking"
- 3 Open (double click) the earlier new set up connection
- 4 In the dialog window "Connect To" do the following:
Enter the "User Name" and "Password" as supplied to you by your Internet provider and click on connect. As soon as the connection is established a dialog window will open with the message "Connection Established"
- 5 You now can surf the Internet with the Web-Browser or call off your e-mails with an e-mail application.

Disconnect the line

To disconnect an established connection, click on "Disconnect" in the dialog window of "Connection Established", or double click the dial-up icon in the status area of the taskbar.

Glossary

Appointment - wake-up

The system telephones remind you of a fixed appointment (date/time) with the appointment call and flashing LED. With a wake-up call the system telephones wake you every day at a fixed time.

Automatic dialling

When this feature is activated, your telephone system automatically calls the previously entered number when you lift the handset and do not press any other key for 10 seconds. The number is dialled up to 12 times at one minute intervals until a connection is made.

Busy On Busy

This feature of the telecommunications system causes the whole line to be busy when a subscriber is holding a conversation from a call variant/call distribution. Unlike camp on protection, this function works for a complete phone number (MSN) not just for one subscriber.

Call by call

With the call by call feature you can select a desired network provider for a long distance call. You have to set up a call by call function key.

Call diversion - diversion to

All incoming calls can be diverted to a specific external or internal destination telephone. Unlike call forwarding (ISDN) in which there is no connection to your ISDN telecommunications system, the call diversion to the external subscriber uses a second B-channel to reach the desired destination. This may even save money because the Least Cost Router can be used to make the connection. Two B-channels are occupied during the all diversion.

Glossary

Call forwarding - ISDN call forwarding

With this ISDN service feature, calls for your ISDN connection can be forwarded worldwide to any other connection. You enter the destination number in your ISDN telecommunications system and activate the call forwarding in your public exchange. The exchange then re-routes all calls without the telecommunications system noticing (see call diversion). With call forwarding on the system connection you always forward the whole connection. On a multipoint connection you can divert every phone number (MSN) individually to a respective different destination. Call forwarding is possible in the variations permanent, when no answer and when busy. The call forwarding feature can only be used by special agreement with your network provider.

Call Log

Calls which had not been answered are listed in the call log. (provided the number is transmitted from the calling party and the service is provided) Calls can be returned directly from the call log from any system telephone or via TK Phone at a mouse click.

Call variant or Day/ Night Service

Telephone extensions which should ring on an incoming call can be programmed for day and for night service. Day Service or Night Service can be activated from any extension on the system.

Disable Call Waiting

The call waiting tone which is heard during a telephone call indicates that another call is waiting to be answered. It is possible to put the original call on hold while taking the waiting call. This way no calls are missed. However, you may not want to be disturbed during an important call. For this reason you can disable call waiting, the caller ringing your extension while you are already on the phone will receive busy tone.

Charging Cradle Event

With this feature certain functions can be activated or disabled if the DECT 30 is returned or removed from its charging cradle. For example if the DECT 30 is removed from its charger a diversion from your main extension to your DECT phone can be activated. Also once the cordless phone is returned to its cradle the diversion can be cancelled automatically. The programming for this feature is carried out via TK Soft in the section 'DECT options'

Glossary

Call Information Logging (CIL)

The AGFEO Telephone System is collecting data for each incoming and outgoing telephone call. (selectable: Incoming or Outgoing or Both) The data will consist of date, time, number called, duration of call, alternative network used, charges* and extension number. Up to 2000 call records can be stored in conjunction with TK Bill (part of TK Set) the call data can be analysed. Alternatively a printer will give a on-line printout at the termination of each trunk call.

Context menu

The Context Menu can be displayed on AGFEO System Terminals and offer additional guidance for each step of a call. For example whilst on a call the line "Park Call?" will be displayed, by pressing the OK button the call will be parked. Likewise if you pick up the telephone receiver and a call is parked in the system a message 'Retrieve Call?' will be displayed, just press OK to the question and the call will be recovered.

Charge code or Meter reset PIN

Every extension is able to reset its on meter. To prevent misuse a PIN number can be set so that a meter can only be reset after entering a PIN Number. The default setting is that no code has been allocated.

DECT Module

Up to 8 GAP compatible DECT cordless telephones can be registered to one module or SO Base Station. Four of the phones can have a simultaneous conversation. A separate external aerial, which is included, can be connected to give optimum performance.

Exchange Line (B-channel/ BRI)

An ISDN 2e or also called BRI (Basic Rate Interface) consist of two B channels and one D channel. The two B channels are like two exchange lines and are a digital circuit. The D channel is used to control and supervise the two B channels.

Glossary

Dialling preparation

The dialling preparation enables you to first enter a number and then activate dialling by lifting the handset. This also applies for phone book and redialling.

Direct call - baby call

The direct call only works when the telephone is locked. Regardless which key is pressed, only the previously programmed phone number is dialled.

Divert from

You can divert all calls of other telephones individually to your telephone. You can telephone as normal from the diverted telephone. On lifting the handset a special dialling tone reminds you that the diversion is activated.

Do Not Disturb

Calls will no longer ring the telephone with this feature enabled. Do Not Disturb can be activated for internal calls only, external calls only or all calls. However, internal calls are still signalled optically on a system phone.

Door Phone (TFE)

A door phone with bell push can be connected to the AGFEO Telephone System. Any extension on the system can talk to the door phone and release the lock release if fitted.

DTMF Signalling (Remote Access)

DTMF digits from 0 to 9 and * (Star) and # (Hash) can be stored and send during an established call. This feature can be used for the remote interogation of answering machines or telephone banking.

DTMF Dialling

A telephone with DTMF dialling must have a TBR Recall Button to transfer a call or make an enquiry call.

Glossary

Emergency Numbers

Emergency Numbers stored under * or # (Star and Hash) can only be accessed if the telephone is locked. Pick up the handset or go off hook and press * for Emergency Number 1 or # for Emergency Number 2, confirm by pressing OK for the number to be dialled.

Remote Dialling

With this feature an extension can dial a telephone number for another extension. For example a number can be dialled from the ST30 for the DECT 30. In practise a DECT 30 user with headset can remote control call set up and call answer from the ST30, or a Secretary can dial a telephone number for the manager.

Tracing Malicious - or Nuisance Calls

This feature can only be used on request from your telephone service provider. Condition: You must have a function button programmed on your system phone with the description of 'Trace', on an analogue phone a function code has to be entered. On activation of this the call will be traced within the ISDN telephone exchange, even if the caller is withholding the number.

Intercom function and Announcements

The ST 20, ST25 and ST30 can also act as intercom systems. When the system phone is called the microphone can, if so programmed, automatically be switched on and the called extension can talk back without the need to press any buttons or pick up the phone. If the feature of automatic microphone activation is not enabled, then the called extension has to press the speaker button or pick up the receiver. A announcement or tannoy can also be made to all system phones which are on hook. A announcement can also be made from an analogue phone, however an analogue phone cannot receive a tannoy or announcement call. Please refer to the user manual for instructions on how to use this feature.

ISDN-hold

This feature is only available on Point to Multipoint (PTMP) lines. Your call can be held by the ISDN exchange, you then can make an enquiry call to another number and switch between the two calls or set up a conference call. Note: This feature may not be available from your network provider

Least Cost Routing - LCR

With Least Cost Routing call charges could be reduced as alternative providers are used to connect calls. With the TK-LCR software, included in every AGFEO system, tables for up to 8 different providers can be entered and applied during a 24 hour time period.

Glossary

Module slot or Expansion Slot

Is a free slot which can be populated with an AGFEO Module to further expand the telephone system.

Phone book or Central Dialling Memory

Telephone Numbers are stored in the Telephone Systems Memory and can be accessed from every extension on the system. Retrieval of the stored numbers can be by location or alpha numeric. If an incoming call is received of a caller who is also stored in the telephone book, then the callers name will be displayed instead of the number. The latter assumes that the number of the calling party is transmitted.

Private Destination

Is a telephone number stored only on your telephone extension on a Private Destination Button.

Public Destination

Is a telephone number stored on a Public Destination Button which originates from the Telephone Book for the system.

Relays

The relays may have on/off or a pulse functions depending on the programming. In addition they can be assigned internal numbers and control additional bells or beacons. The relays can also be controlled remotely.

Seizure

Seizure of an outside line (B channel) to call an external subscriber.

Programm Access Code

In the default setting every extension can make program changes to the telephone system. A PIN or Code number can be assigned to restrict access to the programming section of the system. In default this PIN is 2580 and can be changed by the user. Note though a PIN as been set this is not enabled in the default setting.

Glossary

Speed dialling by Location

A Speed Dial Number is stored in a location of the telephone system. The stored telephone number can be retrieved by entering the location number.

Status Display - Busy Lamp Field

The display of a system telephone will indicate extensions which are off hook or on a call, it also will display lines which are in use. There is also an indication if features have been activated such as call diversion etc.

Telephone lock

Every extension connected to the system can be locked via a four digit code this will prevent unauthorised use of your telephone extension. The locked extension can only access direct dial, emergency, autodial and extensions numbers. The default setting of the system is that there are no lock codes entered.

Timer - Time Switches

The telecommunications system provides 10 timers. These time switches can be set for certain times and certain days, the following can be controlled via these timers.

Answering machines

Do not disturb

Call variants 1/2/3

Call variant door

Busy on Busy

Relays

Extension Class of Service

Telephone Lock

Diversions

You can assign a function to every timer. The timers can only be programmed with TK-Suite Set. The timer control can be switched on and off from every telephone.

Transfer

With the 'Transfer' Button you can transfer an external call to another external telephone number. Note that the two B channels of the ISDN line will be used. You will be charged for the part of your call. A 'Transfer' button can be programmed for system telephones, analogue telephones will have to transfer via a function procedure.

What to do in the event of malfunctions

Checks

- In the event of malfunctions off the telephone system, please check your operating procedures and refer to the user manual
- Please ensure that all telephone terminals are properly plugged in.
- Should you be unable to clear the fault, then please contact your dealer.

Extension Feature Reset

This is an access code dialled by an extension user to reset the features that are currently active on the extension. These are 'Do not Disturb', 'Automatic Dialling' and 'Diversions'. The special dial tone which indicates that a feature is set is also cancelled.



Lift handset

Deactivate special dial tone functions

Acknowledgement tone

Replace handset

Power Failure

Note: You are unable to make any telephone calls in the event of a Power Failure. The Time and Date information will be lost.

When power is restored:

- The system will start up with the previous set program. All changes which had been made in the programming mode or via a PC are unaffected, provided the program was closed properly.
- Call Back calls which had been initiated will be cleared.
- Re-Dial entries are cleared
- Parked Calls have been dropped
- Call Management information, ie call charges and call information logging will have been saved.

What to do in the event of malfunctions

What to do in the event of malfunctions

<u>Malfunction</u>	<u>Possible causes</u>	<u>Remedy</u>
Telephone system programming unclear		Reset the telephone system to factory default and reprogramm Reset the telephone system to the „as-delivered“ settings and reprogram it
No dial tone after lifting handset	Power failure Terminal faulty Incorrect installation	Check mains connection/fuses Check terminal on another connection Check socket wiring and wiring on the system end.
No internal calls arrive	Do not disturb (special dial tone) Diversion to another telephone (internal/external) (special dial tone)	Disable do not disturb Disable diversion to
No external calls arrive	Do not disturb (special dial tone) Diversion to another telephone (internal/external) (special dial tone) ISDN call forwarding is active Point-to-point connection: System phone number missing Point-to-multipoint connection: - MSN missing - MSN-internal user assignment missing	Disable do not disturb Disable diversion to Deactivate ISDN call forwarding Enter the system phone number Enter the MSN Assign the internal user to the MSN(ringing distribution)
Forwarding an external call (enquiry) is not possible	The inquiry key [R] on the telephone is set as an earth key Wrong flash time	Set the telephone to DTMF and set the enquiry button to flash or TBR. Adjust flash time on the phone or on the respective port of the PBX.
Distorted speech connection	S0 bus incorrectly installed Connection error	Connect wire pairs correctly

What to do in the event of malfunctions

Reset the Telephone System

You can reset the system to a user-defined state. This may become necessary if you need to reset unclear settings or like to reprogram the telephone system. After the reset the system will function to the previously set program. All setting made in the programming mode or via the PC will be retained provided the program has been closed correctly.








Important: the following are cleared when you reset the telephone system. -
All calls in progress internal or external are dropped








- Remote Maintenance
- All Call Back Calls
- ISDN Call Back on Busy
- Reserve Outside Line

Hardware Reset - unplug the 230 V power mains plug for a few seconds and then plug it in again.

Software reset - carry out the following procedure:

Software Reset via Analogue Terminals / ISDN Terminals

Program mode must entered:  →      

 →      → 

Lift handset

Reset the telephone system

Acknowledgement tone

Replace handset

The reset is performed.

Software reset via System Telephones

To enter Reset
If the setup code is requested after pressing 9, you must enter the 4-digit programming code.

„next“: Scroll to the „Clear memory“ menu

„enter“: Start clear memory (reset the ex-factory state of the system), a security prompt appears

„enter“: Confirm clear memory if you want to continue.

The memories are cleared (approx. 2 minutes). (all data is cleared and the programming is ended automatically)







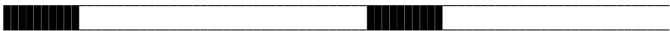
Appendix

Rings

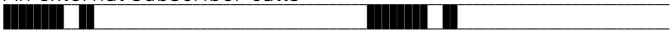
All ringer rhythms for incoming calls begin with an initial 500 ms pulse, followed by a 2 second pause. This is a technical requirement to allow caller identification (Calling Line Identification Presentation - CLIP). Thereafter the ring can be programmed differently to distinguish between calls to different extension numbers in the system (see diagram)

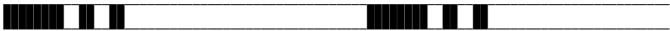
Ring Rythms

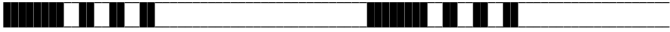
External Call

Standard Ring 


An external subscriber calls

Code ring 1 


Code ring 2 

Code ring 3 

Code ring 4 

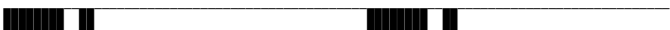
Internal Call 

An extension is calling

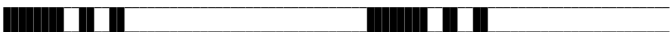
Door ringing 

A visitor rings at the door

Code call rings to radio cells

- Code ring 1 

Call via the first internal phone number

- Code ring 2 

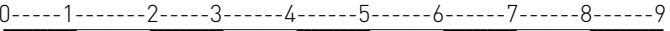
Call via the second internal phone number

Outside line reservation / 

Appointment call
(system telephone)

Wake up call (system telephone) 

1 minute rising volume

Key: 

0-----1-----2-----3-----4-----5-----6-----7-----8-----9 s
Call break Call break Continued

Note

Ringing may differ depending on the terminal used. The code calls 3 and 4 are not signalled to analogue ports that are set to type „radio cell“.

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The AGFEO GmbH & Co. KG reserves the right to change representations and data in this documentation in the interests of technical progress without prior notice.

This documentation has been prepared with the utmost care and is revised regularly. Despite all care, however, technical inaccuracies and typographical errors cannot be totally ruled out. All errors which become known to us will be corrected in new editions. We are gratefully for any hints at errors in this documentation.

You can only use the numerous ISDN features of your AGFEO ISDN telecommunications system if your network operator provides them.

EU-Konformitätserklärung

EC-Declaration of Conformity
CE-Déclaration de Conformité

Der Hersteller: AGFEO GmbH & Co. KG

The Manufacturer:
Le Constructeur:

Adresse: Gaswerkstr. 8
D - 33647 Bielefeld

Address:
Adresse:

Erklärt, dass das Produkt: AS 181

Declares that the Product:
Déclare que le Produit:

Type: Telefonanlage

Model: AS 181

Components: -----

die grundlegenden Anforderungen gemäß Artikel 3 der nachstehenden EU-Richtlinien erfüllt:

meets the essential requirements according to article 3 of the following EC-Directive:
est conforme aux exigences essentielles d' article 3 de la Directive CE.

**Richtlinie 1999/5/EG des Europäischen Parlaments und des Rates vom 09. März 1999
über Funkanlagen und Telekommunikationsendeinrichtungen und die gegenseitige
Anerkennung ihrer Konformität**

Directive 1999/5/EC of the European Parliament and of the Council of 09 March 1999 relating to radio and
telecommunications terminal equipment, including the mutual recognition of their conformity
Directive 1999/5/CE du Parlement européen et du Conseil du 09 mars 1999 concernant les radio et équipement terminaux de
télécommunications, incluant la reconnaissance mutuelle de leur conformité

und dass die folgenden harmonisierten Normen angewandt wurden:

and that the following harmonised standards has been applied:
et que les standards harmonisés suivants ont été appliqués:


EN 55022/2001
EN 55024/1998

Bielefeld, 22. Januar 2003

Ort und Datum der Konformitätserklärung

Place and date of the declaration Lieu et date de la déclaration

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Name and Signature Nom et Signature

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