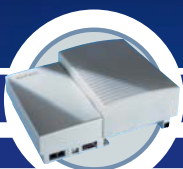


AGFEO
Telekommunikation



Telephones



Telephone Systems



Software



Home Automation



International Catalogue 2009 I



The Founding Years 1947 to 1950

In 1947, in the midst of the post-war upheaval, Herman Boelke is founding a new company in Bielefeld called „Apparatebau Gesellschaft für Fernmelde-technik/Feinmechanik, Elektrotechnik und Optik“, in short AGFEO. With virtually no start-up capital, but with all the more enthusiasm and a handful of committed employees. These all came from the Westphalia region and have an inherent knack for lateral thinking, a pragmatic, practical and sound approach. Skilled craftsmen who can be relied upon. Hermann Boelke is using his good relations with the British occupying forces which soon will secure an order to manufacture tutorial Morse Code equipment for the British Army. Due to the solid design these are soon sought after by the Belgian Army too. The turnover is increasing, at the same time AGFEO is now supplying optical equipment. The start-up was successful.

Orders worth Millions

In the early 1960's the „Bundespost“ issues an invitation to tender for the manufacture of call meters for the use with telephone sets which are powered from the telephone exchange. AGFEO's call meter is accepted which sold under the name GAZ 65 by the millions.

Brand Name

After the loss of the monopoly by the „Deutsche Bundespost“ a competitive international market for new telephone equipment, applications and services soon emerged.

In the late 1980's AGFEO develops an analogue telephone system including system phones. This system is introduced by the „Deutsche Telekom“ in 1990 and sold under the name of „focus L“. The system soon penetrates the market and will be the launch of a whole new product line for AGFEO.

In the 1990's the European Countries agree on a common ISDN standard: Euro ISDN. With this a new era will begin for AGFEO. Shortly after AGFEO turns into an innovative manufacturer of ISDN equipment and is today one of the market leaders for small to medium sized telephone systems.

AGFEO Products are available in various countries world-wide. A detailed list of our international partners can be found on www.agfeo.com.

Please contact your dealer for further information on the products which are available in your country. Some AGFEO products may not be available in all countries listed.

Product availability in other countries upon request.

Quality – A proven strategy

AGFEO's politic to quality is based on the fundamental principle of customer satisfaction which is our top priority. All activities within our company are to fulfil customer expectations, in addition it is the duty of each and every employee to ensure the high quality of our products.

The orientation on „Zero Tolerance“ is the benchmark of quality, which is guaranteed by planning and a seamless cooperation between the various departments within the company. An efficient customer service ensures a constant support and therefore will retain the value of our products. At the end of this development top quality products will emerge which are suitable for nearly every application possible.

AGFEO products are future proof!

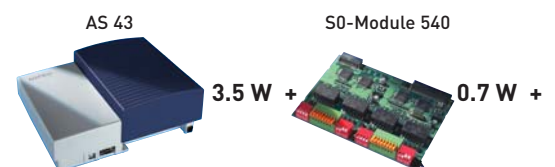


AGFEO products are manufactured environment-friendly according to RoHS!



AGFEO products are especially energy efficient!

Only components of the highest possible quality which will show the least energy consumption will be used. It pays twice to have AGFEO quality, on one hand in the low running cost and on the other to the long life expectancy of the system. The example below shows an average power consumption in normal use. Add consumption values of components and system to get the overall power consumption. On an average price of 23 Cent (Euro) per KW/h one watt will cost approximately 2 Euro per year. Calculation Example:



TELEPHONES and ACCESSORIES

03



Analogue Telephones
including Accessories

Corded

T 10
T 15

30-31
32-33



Cordless Phones
including Accessories

Cordless

DECT 20

34-35



System Phones
including Accessories

Corded

ST 15
ST 21
ST 31
ST 40
ST 40 IP

36-37
38-39
40-41
42-43
44-45



DECT System Phones
including Accessories

Cordless

DECT 35
DECT 45
DECT 50

46-47
46-47
48-49



SystemHeadset 9120
Headset 9120
Headset 2200/2100

Cordless
Cordless
Corded

50
51
52



AGFEO DECT-Solutions

DECT S0 Base plus
Repeater

53
53



ST 21

Total Consumption
of System

0.4 W = 4.6 Watt



04 TELEPHONE SYSTEMS

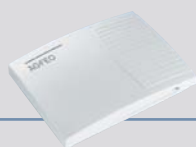


	Product	Network Suitability	Extensions	Page
	AC 12 USB	ISDN	2	06-07
	AC 14 analog	Analogue	4	08-09
	AC 14/AC 14 WebPhonie	ISDN	4	10-11
	AS 151 plus/AS 181 plus	ISDN	6/10	12-13
	AS 181 plus EIB	ISDN	10	14-15
	TK•HomeServer	ISDN VoIP	6+4	16-17
	AS 281 All-In-One	Analogue ISDN VoIP	10	18-19
	AS 35 All-In-One	Analogue ISDN VoIP	16	20-21
	AS 35	ISDN VoIP	18	22-23
	AS 43	Analogue ISDN PRI VoIP	up to 22	24-25
	AS 45	Analogue ISDN PRI VoIP	up to 40/80	26-27
	AS 200 IT	Analogue ISDN PRI VoIP	up to 40/80	28-29
	Typical Applications	with AGFEO Products		54-59



Contents

Page

**AGFEO Home Automation & Security**Alternative 1: **Wireless Alarm Controller**Alternative 2: **EIB-Module 522**Alternative 3: **Wireless Alarm Controller WAC/EIB**

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**Detectors and Switches:**

Component overview

65

FAQ: Questions regarding the Security-Line

65

Detectors and Switches:

- ☐ Motion Detector
- ☐ Glass Break Detector
- ☐ Door Contact
- ☐ On / Off Switch
- ☐ Typical application for the on / off switch
- ☐ Alarm Sirens

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AGFEO Door Phones

Operate the front door from your telephone

71



Communications via Data Networks (IP Communications)

AGFEO System IP

AGFEO VOICE over IP

72

73



AGFEO Software, the Communication Centre of your Telephone System

TK-Suite Professional

Optional Software for the Professional User

TK-Suite Hotel Client

74-76

77

77



A – Z Glossary

78-80

TECHNICAL DATA

System Phones

Telephone Systems

81

82-83

06 ISDN System

AGFEO AC 12 USB



Added Convenience for Calls and Surfing!



TK-Suite Professional Software

Make calls per mouse click, receive reminders of important meetings or information of incoming calls.

AGFEO TK-Suite Professional, operate your telephone system and central address management via your Windows based computer. ▶ [Page 74](#)



Music on Hold

Integrated Music on Hold is available for waiting callers.



Limit Costs

Each telephone connected can be allocated a preset call limit (Monetary or Time). Once the set limit has been reached, then only internal or emergency calls are possible. The limit can be reset by using a PIN.



Cheaper Calls

The phone system will automatically route the call via the cheapest carrier, providing the necessary tariffs have been entered into the telephone system.



Savings Potential

Any existing analogue telephones, answering machines and faxes can be continued to use.

Expert Advice!

The installation of an ISDN PC Card is not required due to the already integrated ISDN Modem in the system.



AGFEO door phones may be connected to the analogue extension ports of the system.

The system has an integrated ISDN modem. This can be connected to the PC via a USB cable – have fun in the World Wide Web.

2 Extensions and 1 Answering Machine



07

Recommended Phones

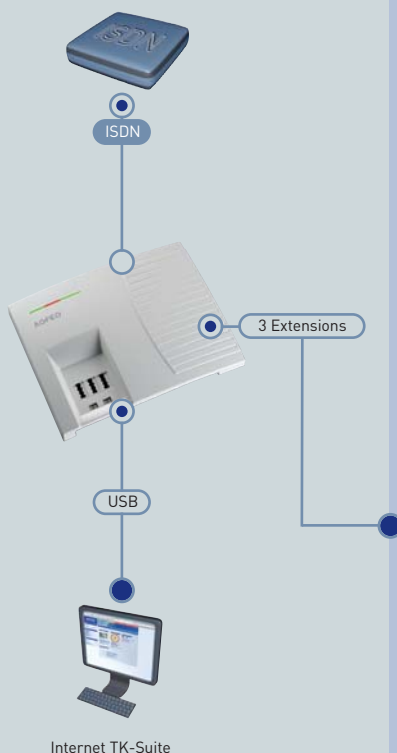
- 1 ISDN BRI Trunk Line (PTMP)
- 3 Analogue Extensions for telephone, answering machine and fax, of which one socket is in parallel.
- Internal Music on Hold
- 1 USB Port with ISDN Modem functionality
- 1 TK-Suite Professional Software Package

Dimensions:
184 x 142 x 41 mm (W x H x D)

Desk or Wall Mountable
Power Supply: 230 V, 50 Hz, Plug In
Power Supply Unit (PSU)

Export Models with RJ Connectors

Which locations and phones would you like to utilise?

[illegible]

Analogue

T 10



T 15



DECT 20



☐ Door Phone
(Speech and Opener)



Fax

Answering Machine

Optional Expansion



Door Phones

For information refer
to Page 71

08 Analogue System

AGFEO AC 14 analog



A competitive priced system for the connection to an analogue trunk line and much more!



TK-Suite Professional Software

Make calls per mouse click, receive reminders of important meetings or information of incoming calls.

AGFEO TK-Suite Professional, operate your telephone system and central address management via your Windows based computer. ▶ [Page 74](#)



Music on Hold

Integrated Music on Hold is available for waiting callers.



Limit Costs

Each telephone connected can be allocated a preset call limit (Monetary or Time). Once the set limit has been reached, then only internal or emergency calls are possible. The limit can be reset by using a PIN.



Cheaper Calls

The phone system will automatically route the call via the cheapest carrier, providing the necessary tariffs have been entered into the telephone system.



Savings Potential

Any existing analogue telephones, answering machines and faxes can be continued to use.

Expert Advice!

The complement to an DSL connection.



AGFEO door phones may be connected to the analogue extension ports of the system.

The AC 14 analog will recognise incoming faxes and will connect these automatically to the fax extension.



Recommended Phones

- Answering Machine

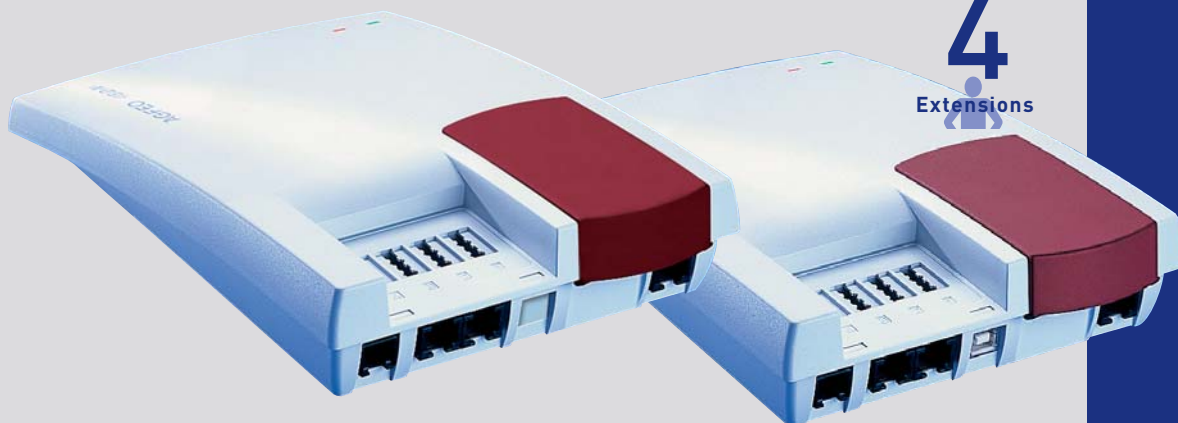


10 ISDN System

AGFEO AC 14/AC 14 WebPhonie



4
Extensions



The telephone systems AC 14 and AC 14 WebPhonie, for up to 4 extensions, may also be used as entry level for internet access. The USB port of the AS 14 WebPhonie will connect your PC or Laptop very easy to the internet via the ISDN line. The installation of an ISDN card in the PC is not required.



TK-Suite Professional Software

Make calls per mouse click, receive reminders of important meetings or information of incoming calls.

AGFEO TK-Suite Professional, operate your telephone system and central address management via your Windows, MAC OS X or Linux based computer.

►Page 74



Music on Hold

Integrated Music on Hold is available for waiting callers.



Limit Costs

Each telephone connected can be allocated a preset call limit (Monetary or Time). Once the set limit has been reached, then only internal or emergency calls are possible. The limit can be reset by using a PIN.



Cheaper Calls

The phone system will automatically route the call via the cheapest carrier, providing the necessary tariffs have been entered into the telephone system.



Savings Potential

Any existing analogue telephones, answering machines and faxes can be continued to use.

Expert Advice!

The connection of AGFEO branded door phones will offer ease of operation which is normally only found at much larger systems.



■ Door Phones

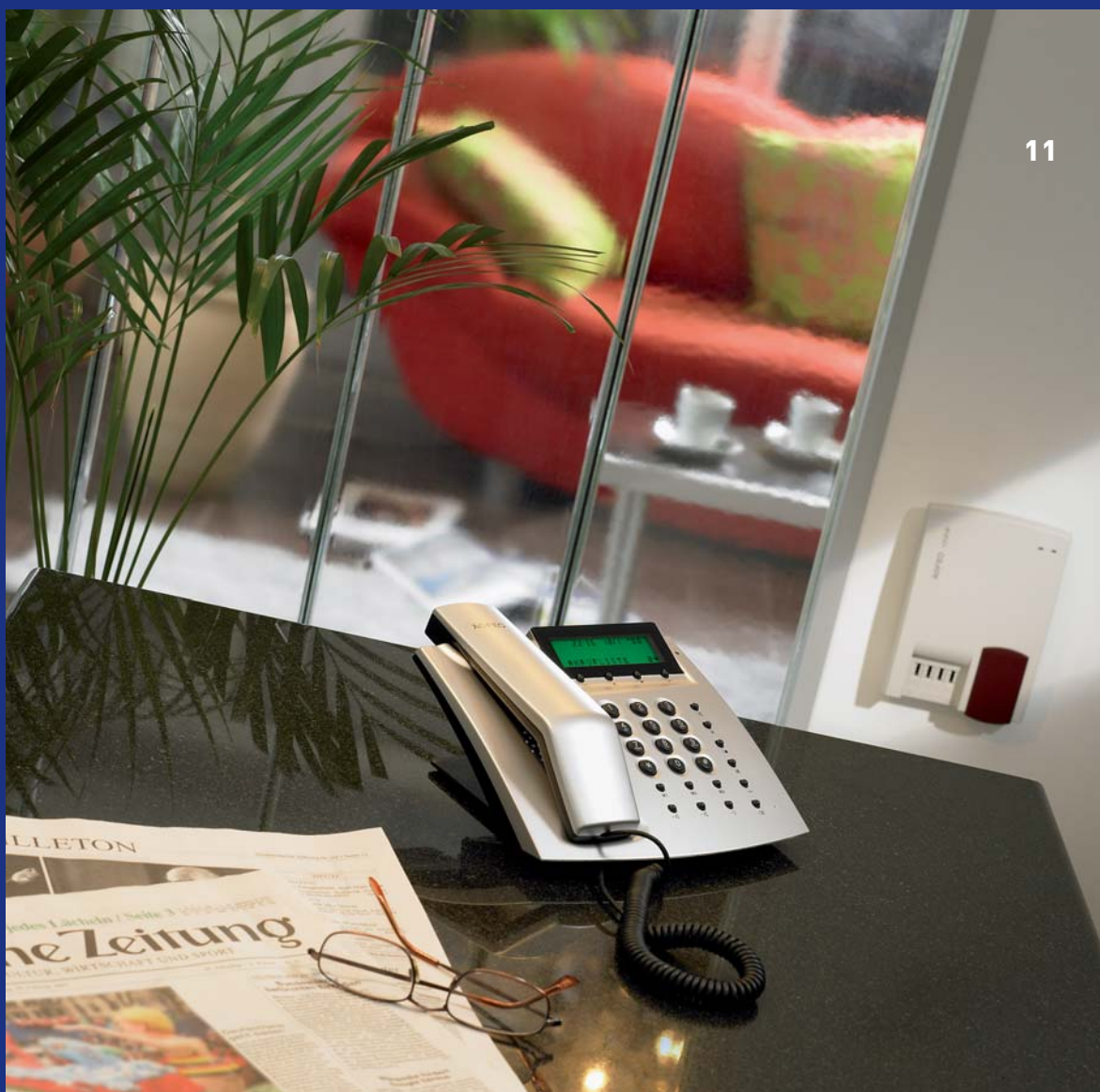
AGFEO door phones may be connected to the analogue extension ports of the system.

■ Remote Controllable Functions

Any telephone (including mobile phones) may operate remotely via the AC 14 WebPhonie an optional door phone. You may talk to the visitor at the door and even open the door which is PIN.

Internet

The system AC 14 WebPhonie has an integrated ISDN modem. This can be connected to the PC via a USB cable – have fun in the World Wide Web.



Configuration

AC 14/AC 14 WebPhone

- 1 ISDN BRI Trunk Line (PTMP)
- 4 Extensions, Answering Machine, Fax etc.
- Internal Music on Hold
- 1 USB Port with ISDN Modem Functionality (AC 14 WebPhone)
- 1 PC Port (RS 232)
- 1 TK-Suite Professional Software Package

Dimensions:
215 x 154 x 46 mm (W x H x D)

Desk or Wall Mountable
Power Supply: 230 V, 50 Hz, Plug In
Power Supply Unit (PSU)

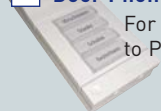
Export Model with RJ Connectors

Optional Expansion



Door Phones

For information refer
to Page 71

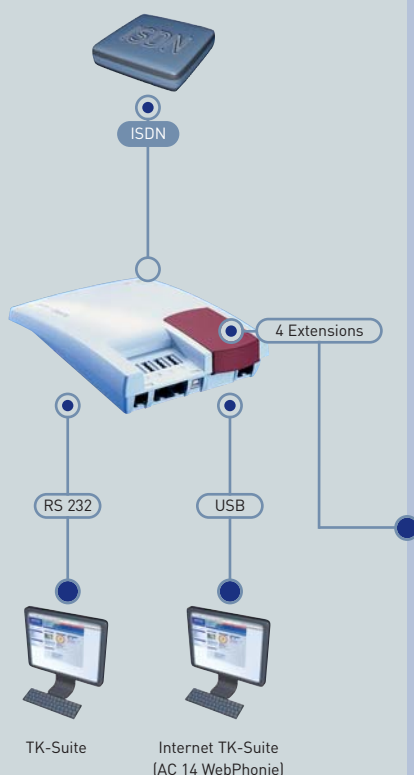


Planning Aid for the AC 14/AC 14 WebPhone

Which locations and phones would you like to utilise?

[illegible]

Typical Application



Recommended Phones

Analogue

T 10



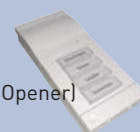
T 15



DECT 20



☐ Door Phone
(Speech and Opener)



Fax

Answering Machine

12 ISDN System

AGFEO AS 151 plus/AS 181 plus



A system completely configured for today's telecommunication requirements.

Just connect the system - that's it. Enjoyable high tech. This is not only catered for by all the useful built-in features of the AS 151 plus and AS 181 plus, but also of the high quality we demand from our products.



TK-Suite Professional Software

Make calls per mouse click, receive reminders of important meetings or information of incoming calls.

AGFEO TK-Suite Professional, operate your telephone system and central address management via your Windows, MAC OS X or Linux based computer.

► Page 74

Expert Advice!

The connection of AGFEO system phones will offer ultimate user friendly operation of the system.



Expansion options with the following

AGFEO products

☐ **Door Phones**

For information refer to Page 71


☐ **Wireless Alarm Controller/EIB**

Integration of Home Automation in AGFEO Telephone Systems

► Page 60



Home Automation

The innovative design of the AS 151 plus and AS 181 plus telephone systems offers the utilisation of home automation and security application. State of the art technology can be seamlessly integrated into the telephone system. ► Page 60



Music on Hold

Basic music on hold is pre-recorded in both telephone systems. A CD player or any other music source can be connected to the AS 181 plus for anyone who would like to play their favourite music to callers on hold.



Cheaper Calls

The phone system will automatically route the call via the cheapest carrier, providing the necessary tariffs have been entered into the telephone system.

14 ISDN Telephone System for Home Automation

AGFEO AS 181 plus EIB



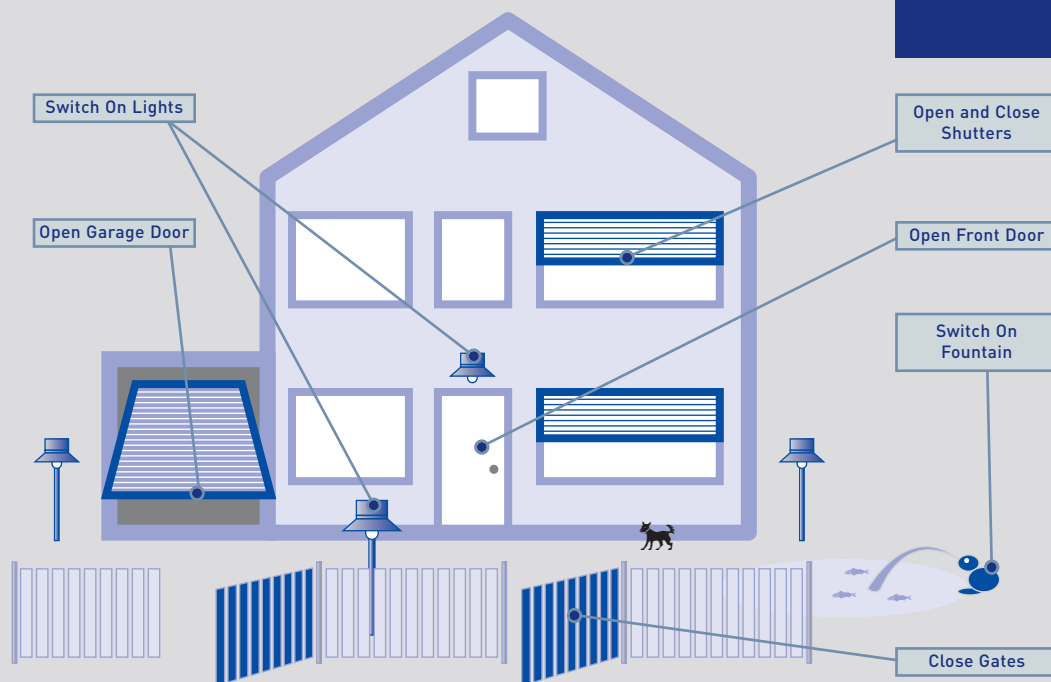
The integration of telephone system and KNX/EIB technology will make it possible to control all home automated functions.

EIB KNX Home Automation

The EIB connection of the telephone system will enable all connected telephones, which may either be corded or cordless, to control and monitor an EIB installation. AGFEO System Phones are particularly suited for the control and visualisation within an EIB system.

KNX/EIB is a standard within the controlling network and the creation of a uniform protocol plus the wide range of offered actuators and sensors any conceivable application in the home automation is by now possible.

The AS 181 plus will administrate 32 objects, 32 scenes with up to 16 objects and up to 16 events (i.e. shunt lock activation will enable call diversion). ► [Page 60](#)



Expert Advice!

The AS 181 plus EIB does not only offer an added convenience, but also will actively help to save energy.



Expansion options with the following AGFEO products

☐ **Door Phones**

For information refer to [Page 71](#)



☐ **DECT S0 Base plus**

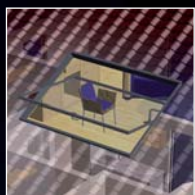
Integration of DECT System Phones.
► [Page 53](#)



☐ **Wireless Alarm Controller/EIB**

Integration of Home Automation in AGFEO Telephone Systems
► [Page 60](#)





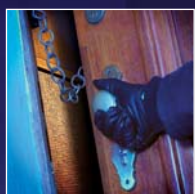
Open/Close
Skylight



Open/Close
Roller Shutters



Control Garden
Fountain



Intruder Protection



Check if Kitchen Appliances
are switched off



Remote Control
Garage Door



Open and Close
Front Door



Fire Protection



15

Configuration AS 181 plus EIB

Suitable for PTP or PTMP lines.

- 1 ISDN BRI Trunk Line
- 1 Switchable ISDN BRI Line (Trunk Access / Internal for System Phones and/or ISDN Devices)
- 8 Extensions for analogue devices of which one port may be used for the connection of an door phone (FTZ) and external Music on Hold
- Internal pre-recorded Music on Hold
- 1 PC Port (RS 232)
- 1 USB Port with ISDN Modem Functionality
- 1 EIB Connection **EIB KNX**
- 1 TK-Suite Professional Software Package

Dimensions:
322 x 244 x 81 mm (W x H x D)

Technical Characteristics like
AS 181 Plus ►Page 13

Planning Aid for the AS 181 plus EIB

Which locations and phones
would you like to utilise?

.....

.....

.....

.....

.....

.....

.....

Which devices would you like to
automate?

.....

.....

.....

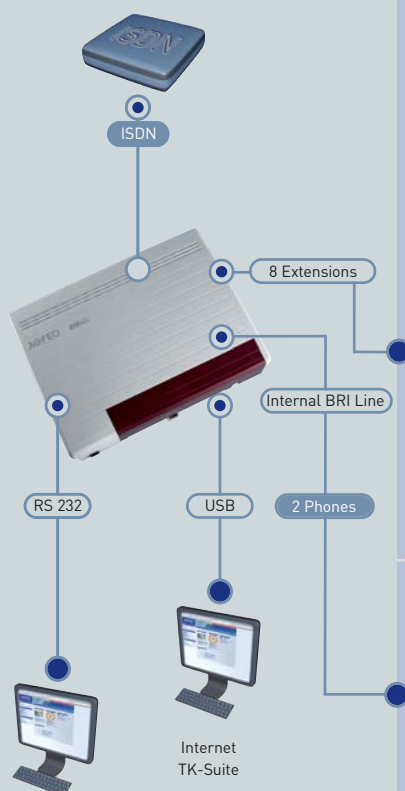
.....

.....

.....

.....

Typical Application



Recommended Phones

Analogue

- ☐ T 10
- ☐ T 15
- ☐ DECT 20

Analogue System Phone

- ☐ ST 15
- ☐ Door Phone (Speech and Opener)
- ☐ Fax
- ☐ Answering Machine

Digital System Phones

- ☐ ST 21
- ☐ DECT 45
- ☐ ST 31
- ☐ DECT 50
- ☐ ST 40

1 RS 232 Connection

TK-Suite

Two Speech Paths

16 The Communications Manager for Home or Office

TK•HomeServer



Web Server, Telephone System & Internet Telephony (VoIP)

6+4
Extensions

The AGFEO TK•HomeServer is a compact unit which combines database -, internet - and communications technology in one. This user friendly system is designed for home or office use alike.

In House Web Server

To provide and exchange pictures, files and documents via the internet. The files are stored on a CF Memory Card within the TK•HomeServer. Can be upgraded to cater for a network drive to NAS standard.

Data Security

A firewall will protect the own network via:

- Statefull Packet Inspection (SPI): The access to your own data from extern is barred by the TK•HomeServer.
- IP-Disguise: Will veil your private IP address within the internet.

Internet Access

Every computer connected to the network will have automatically access to the internet via the TK•HomeServer.

Wireless Internet Access

by means of an integrated WLAN Card.

Support of DynDNS Services

The TK Home Server is always reachable within the World Wide Web, like for example: MySystem.DynDNS.de

E-Mails

The name of sender and subject line of incoming emails are also displayed on AGFEO digital System Phones without the use of an additional PC.



TK-Suite Professional Software

AGFEO TK-Suite Professional will enable computer telephony and central address administration via Windows, Mac OS X and Linux Computers.

► Page 74



Home Automation

Due to the innovative design the TK•Home Server can be utilised for home automation and security applications. State of the art technology can be seamlessly integrated into the telephone system.

► Page 60

Details on availability upon request.

Expert Advice!

The TK-Home Server may be configured so that all outgoing calls are routed via the Internet (IP Telephony) if so required. The S0 Bus connections can be set to internal thus giving a total of 4 analogue -, 4 digital - and 4 IP extensions.



Expansion options with the following

AGFEO products

☐ **Door Phones**

For information refer to Page 71


☐ **DECT S0 Base plus**

Integration of DECT System Phones.

► Page 53


☐ **Wireless Alarm Controller/EIB**

Integration of Home Automation in AGFEO Telephone Systems

► Page 60





■ IP Communication via Data Networks (VoIP)

Internet Telephony or Data Exchange, with this system AGFEO offers you a professional solution. TK•Home Server does support the SIP protocol in high quality of speech.

■ Cheaper Calls

The phone system will automatically route the call via the cheapest carrier, providing the necessary tariffs have been entered in to system.

■ Door Phones

AGFEO door phones may be connected to the analogue extension ports of the system.

■ System Phones

Depending on how system inputs have been selected, the TK•Home Server will support up to four AGFEO Digital System Phones, besides standard ISDN, analogue devices and the analogue System Phone ST 15. System Phones are highly equipped with a perfect user interface.

■ SIP-Telephones

In addition up to 8 SIP devices conforming the the RFC standard can be connected to the TK•HomeServer.



AGFEO

17

Configuration TK•HomeServer

Suitable for PTP or PTMP lines

- 2 Switchable ISDN BRI Line (Trunk Access / Internal for System Phones and/or ISDN Devices)
- 4 Analogue Extensions
- 1 RS 232 Connection
- 1 CF Memory Card
- 1 W-LAN 802.11 b/g
- 1 DSL-Modem (Annex B) (PPPoE) Modem may be disabled if external one is in use
- 4 LAN Connection Switch 10/100Mbit
- Internal Music on Hold
- 1 TK-Suite Professional Software Package

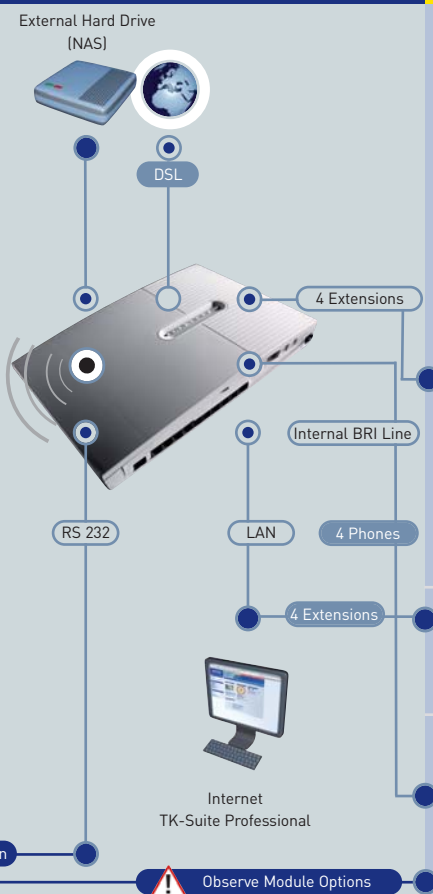
Dimensions:
325 x 227 x 58 mm
(W x H x D)



Planning Aid for the TK•HomeServer

Which locations and phones would you like to utilise?

Typical Application



Recommended Phones

Analogue

- ☐ T 10
- ☐ T 15
- ☐ DECT 20



Analogue System Phone

- ☐ ST 15
- ☐ Door Phone (Speech and Opener)
- ☐ Fax
- ☐ Answering Machine



IP System Phone

- ☐ ST 40 IP



Digital System Phones

- ☐ ST 21
- ☐ ST 31
- ☐ ST 40
- ☐ DECT 45
- ☐ DECT 50



18 Perfection on Analogue Trunk Lines

AGFEO AS 281 All-In-One



Enjoy features and functions of ISDN System Phones on Analogue Trunk Lines.

The AGFEO AS 281 All-In-One includes the finest digital technology for ISDN- and analogue trunk lines. Up to 10 extensions can be connected to the system. Up to 8 extensions, all with various special functions, may be connected if the system is operated in mixed line mode or connected to ISDN trunk lines.



TK-Suite Professional Software

Make calls per mouse click, receive reminders of important meetings or information of incoming calls.

AGFEO TK-Suite Professional, operate your telephone system and central address management via your Windows, MAC OS X or Linux based computer.

►Page 74



Home Automation

The innovative design of the AS 281 All-In-One telephone system offers the utilisation of home automation and security application. State of the art technology can be seamlessly integrated into the telephone system. ►Page 60



Audio Information System including Auto Attendant

The Audio Information System (AIS) offers a professional telephone appearance. Various announcements and Music on Hold recordings for waiting callers can be utilised which are far beyond a „standard“ telephone system.

The auto attendant is an automated switchboard. Callers can be connected to a specific extension or receive information by pressing the digit 0 – 9.

►Page 57

Expert Advice!

With a suitable internet telephony adapter the AS 281 All-In-One will become an internet telephone system which also can make calls via ISDN - or analogue trunk lines.



Expansion options with the following

AGFEO products

Door Phones

For information refer to Page 71


Wireless Alarm Controller/EIB

Integration of Home Automation in AGFEO Telephone Systems

►Page 60



Internet Telephony (VoIP)

Due to the freely configurable in- and outputs of the AS 281 All-In-One adapters for Internet Telephony of various manufacturers may be implemented.



20 Perfect for Analogue and ISDN Trunks

AGFEO AS 35 All-In-One



Use the functionality of AGFEO ISDN System Phones on analogue trunk lines.

The digital AS 35 All-In-One telephone system offers you this and much more. It includes all the features you will ever need as standard.

The AGFEO AS 35 All-In-One includes the finest digital technology for ISDN- and analogue trunk lines. Up to **16 extensions** can be connected to the system. Up to **14 extensions**, all with various special functions, may be connected if the system is operated in mixed line mode or connected to ISDN trunk lines.



TK-Suite Professional Software

Make calls per mouse click, receive reminders of important meetings or information of incoming calls.

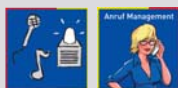
AGFEO TK-Suite Professional, operate your telephone system and central address management via your Windows, MAC OS X or Linux based computer.

► Page 74



Home Automation

The innovative design of the AS 35 All-In-One telephone system offers the utilisation of home automation and security application. State of the art technology can be seamlessly integrated into the telephone system. ► Page 60



Audio Information System including Auto Attendant

The Audio Information System (AIS) offers a professional telephone appearance. Various announcements and Music on Hold recordings for waiting callers can be utilised which are far beyond a „standard“ telephone system.

The auto attendant is an automated switchboard. Callers can be connected to a specific extension or receive information by pressing the digit 0 – 9.

► Page 57



Internet Telephony (VoIP)

Due to the freely configurable in- and outputs of the AS 35 All-In-One adapters for Internet Telephony of various manufacturers may be implemented.

Expert Advice!

You are able to keep your old telephone numbers until your customers are familiar with the new numbers, this is in case you are converting from analogue to ISDN trunk lines.

Only AGFEO telephone systems will offer you this and many other professional solutions.



Expansion options with the following AGFEO products

Door Phones

For information refer to Page 71



DECT S0 Base plus

Integration of DECT System Phones.
► Page 53



Wireless Alarm Controller/EIB

Integration of Home Automation in AGFEO Telephone Systems
► Page 60





22 ISDN Telephone System fully configured

AGFEO AS 35



With all the features of modern communication needs!

The software TK-Suite Professional will support you on your daily business activities. You just make telephone calls at the click of the mouse, get reminders of important meetings and information of incoming calls. TK-Suite Professional offers also its own database and is able to link to other already existing databases.

Depending on port selection the AS 35 is configured for up to **18 extensions** and will accommodate many special functions.

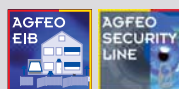


TK-Suite Professional Software

Make calls per mouse click, receive reminders of important meetings or information of incoming calls.

AGFEO TK-Suite Professional, operate your telephone system and central address management via your Windows, MAC OS X or Linux based computer.

► Page 74



Home Automation

The innovative design of the AS 35 telephone system offers the utilisation of home automation and security application. State of the art technology can be seamlessly integrated into the telephone system. ► Page 60



Audio Information System including Auto Attendant

The Audio Information System (AIS) offers a professional telephone appearance. Various announcements and Music on Hold recordings for waiting callers can be utilised which are far beyond a „standard“ telephone system.

The auto attendant is an automated switchboard. Callers can be connected to a specific extension or receive information by pressing the digit 0 – 9.

► Page 57

✓ Expert Advice!

With the AS 35 you acquire a system which can control electrical devices (EIB). In addition these then can be operated via any telephone including mobile phone.



Expansion options with the following

AGFEO products

☐ Door Phones

For information refer to Page 71



☐ DECT S0 Base plus

Integration of DECT System Phones
► Page 53



☐ Wireless Alarm Controller/EIB

Integration of Home Automation in AGFEO Telephone Systems
► Page 60



Internet Telephony (VoIP)

Due to the freely configurable in- and outputs of the AS 35 adapters for Internet Telephony of various manufacturers may be implemented.

Monitoring and operation of electrical devices in and around the house. Further information on page 60.

Individual Wake Up Calls with
Announcements via the phone.

The Audio Information System delivers music, commercials or other special information to waiting callers on hold.

AGFEO door phones may be connected to the analogue extension ports of the system.

Besides to the standard ISDN - and analogue extensions up to six AGFEO Digital System Phones can be connected to the AS 35. The newly developed analogue ST 15 System Phone can be connected to any analogue port of the system. AGFEO System Phones have been specially developed and offer easy accessibility to features and functions besides user friendly operation.



Configuration AS 35

Suitable for PTP or PTMP trunk lines.

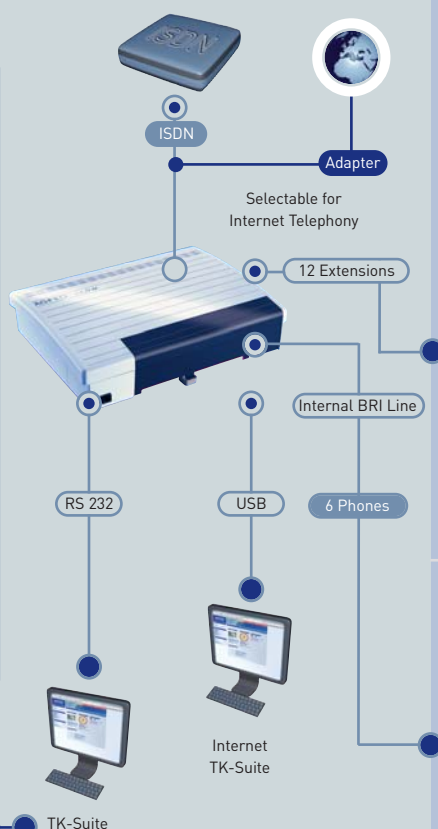
- 1 ISDN BRI Trunk Line
- 3 Switchable ISDN BRI Line (Trunk Access / Internal for System Phones and/or ISDN Devices)
- 12 Extensions, Answering Machine, Fax etc. each of which may be used for the connection of a door phone.
- 1 PC Port (RS 232)
- 1 USB Port for system programming
- AIS/Auto Attendant on Board
- 1 TK-Suite Professional Software Package

Dimensions:
322 x 244 x 81 mm (W x H x D)

Planning Aid for the AS 35


Which locations and phones would you like to utilise?

Typical Application



Recommended Phones

Analogue

- ☐ T 10 
- ☐ T 15
- ☐ DECT 20



Analogue System Phone

- ☐ ST 15
- ☐ Door Phone
(Speech and Opener)
- ☐ Fax
- ☐ Answering Machine



Digital System Phones

- ST 21 DECT 45
 ST 31 DECT 50
 ST 40



24 Telephone System for BRI & PRI ISDN, Analogue- and Internet Telephony (VoIP)

AGFEO AS 43



22
Extensions



**Communications without any boundaries.
Individual expansion due to modular design.**

The AS 43 provides communications expertise for up to **22 extensions**. A safe investment as numerous different modules are available.



TK-Suite Professional Software

Make calls per mouse click, receive reminders of important meetings or information of incoming calls.

AGFEO TK-Suite Professional, operate your telephone system and central address management via your Windows, MAC OS X or Linux based computer.

► [Page 74](#)



TK-Suite Hotel Client

Special software for Hotels and Guest Houses available. ► [Page 77](#)



Home Automation

The innovative design of the AS 43 telephone system offers the utilisation of home automation and security application. State of the art technology can be seamlessly integrated into the telephone system. ► [Page 60](#)



Audio Information System including Auto Attendant

The Audio Information System (AIS) offers a professional telephone appearance. Various announcements and Music on Hold recordings for waiting callers can be utilised which are far beyond a „standard“ telephone system.

The auto attendant is an automated switchboard. Callers can be connected to a specific extension or receive information by pressing the digit 0 – 9.

► [Page 57](#)



ASIP (AGFEO System IP) Communication via Data Networks

Internet telephony or data transfer, AGFEO offers with the LAN modules a professional solution.

► [Page 72](#)

✓ Expert Advice!

Due to the AGFEO UP0 technology an existing 2 wire installation may be reused for the installation of System Phones.



Expansion options with the following AGFEO products

☐ Door Phones

For information refer to [Page 71](#)



☐ DECT S0 Base plus

Integration of DECT System Phones
► [Page 53](#)



☐ Wireless Alarm Controller/EIB

Integration of Home Automation in AGFEO Telephone Systems
► [Page 60](#)





Room for 3 optional modules
Expand the system to your requirements.

Wake Up Calls

Individual Wake Up Calls with Announcements via the phone.

Music on Hold / Announcements

The Audio Information System delivers music, commercials or other special information to waiting callers on hold.

Door Phones

AGFEO door phones may be connected to the analogue extension ports of the system.

Internet Telephony

Either by implementing external internet telephony adapters (ATA) or the professional solution via the AGFEO LAN-Module.

Save on Installation Costs

Due to the special AGFEO UP0 technology old intact existing wiring may be reused.

System Phones

AGFEO System Phones have been optimised for the telephone system and offer ease of use, operation and control of the telephone system.



Initial Configuration AS 43

Suitable for Analogue, Basic Rate & Primary Rate ISDN Trunk Lines and IP connection.

- 1 PC Port (RS 232)
- 1 USB Port for system programming
- AIS/Auto Attendant on Board
- 3 Module Slots
- 1 TK-Suite Professional Software Package

Dimensions:
320 x 260 x 100 mm (W x H x D)

Select up to 3 Optional Expansion Modules

☐ **AL-Module 4504 (max. 2)** 0,9 W
4 Analogue Trunk Lines including CLIP

☐ **UP0-Module 508 (max. 3)** 0,8 W
8 UP0 System Phones

8 Extensions

☐ **LAN-Module 508 (max. 1)** 5,8 W
8 IP Extensions (ASIP) for ST 40 IP System programming via LAN

8 Extensions

☐ **EIB-Module 522 (max. 1)** 0,1 W
Operation of up to 32 EIB Objects ► Page 63

☐ **T-Module 508 (max. 3)** 1,9 W
8 Analogue Extensions

8 Extensions

☐ **K-Module 524 (max. 3)** 1,5 W
2 Switchable ISDN BRI Line (Trunk Access / Internal Use)

4 Analogue Extensions (CLIP)

8 Extensions

☐ **K-Module 544 (max. 1)** 1,4 W
4 Alarm Inputs
3 Door Phones, 2 wire, FTZ, CE2-wire
2 Relays
Audio In- Output, Speaker output for MoH or Background Music

☐ **LAN-Module 510 (max. 1)** 5,8 W
8 Switchable channels for SIP Provider, ST 40 IP or SIP devices
Protocol IoP, ASIP, SIP (RFC standard)
10 selectable providers, of which 8 may be active.
TK-Suite Server, TK-Suite Bill, SIP Registrar, Administration of an external hard drive (NAS), Router (DHCP/Client), DSL Modem (ADSL 2+, Annex B), System programming via LAN

TK-Suite Professional including CTI plus and Database packages on board.

8 Extensions

☐ **S2M-Module 500 (max. 1)** 0,5 W
PRI Trunk Access
Up to 20 Channels

☐ **S0-Module 540 (max. 3)** 0,7 W
4 Switchable ISDN BRI Line (Trunk Access / Internal Use)

8 Extensions

Recommended Phones

Analogue

- ☐ T 10
- ☐ T 15
- ☐ DECT 20



Analogue System Phone

- ☐ ST 15



- ☐ Door Phone (Speech and Opener)

- ☐ Fax

- ☐ Answering Machine



Digital System Phones

- ☐ ST 21
- ☐ DECT 45
- ☐ ST 31
- ☐ DECT 50
- ☐ ST 40
- ☐ ST 40 IP



Observe Module Options

26 Communications without any boundaries

AGFEO AS 45



Suitable for BRI & PRI ISDN, Analogue- and Internet Telephony, possibilities (nearly) without any limits. For requirements of across the board telephony service with ease of programming / administration the AS 45 will open new horizons for your organisation.

Due to the modular design the AS 45 can be expanded as required. Therefore you will only purchase as much of a telephone system as needed at the time, with the view of later expansions at a competitive price, if and when required.

The AS 45 with its communications expertise is designed for up to **40/80 extensions**, of which 36/72 can be AGFEO Digital System Phones – and still offers many special and unique features.



TK-Suite Professional Software

Programming of the system is carried out via TK-Suite which operates independent of any platform on PC's, MAC's, Linux or UNIX Computers via your Web Browser. A multi level authorisation will allow each user to setup their individual features.

► Page 74



TK-Suite Hotel Client

Special software for Hotels and Guest Houses available. ► Page 77



Home Automation

The innovative design of the AS 45 telephone system offers the utilisation of home automation and security application. State of the art technology can be seamlessly integrated into the telephone system. ► Page 60



Audio Information System including Auto Attendant

The Audio Information System (AIS) offers a professional telephone appearance. Various announcements and Music on Hold recordings for waiting callers can be utilised which are far beyond a „standard“ telephone system.

The auto attendant is an automated switchboard. Callers can be connected to a specific extension or receive information by pressing the digit 0 – 9.

► Page 57

ASIP (AGFEO System IP)
Communication via Data Networks

Internet telephony or data transfer, AGFEO offers with the LAN modules a professional solution.

► Page 72

Expert Advice!

The AS 45 can work as a double cabinet by using a standard CAT 5 patch cable for the interconnection, thus giving one system for up to 80 extension.



Expansion options with the following AGFEO products

☐ **Door Phones**

For information refer to Page 71


☐ **DECT S0 Base plus**

Integration of DECT System Phones
► Page 53


☐ **Wireless Alarm Controller/EIB**

Integration of Home Automation in AGFEO Telephone Systems
► Page 60



Room for 5/10 optional modules
Expand the system to your requirements.

Wake Up Calls

Individual Wake Up Calls with Announcements via the phone.

Music on Hold / Announcements

The Audio Information System delivers music, commercials or other special information to waiting callers on hold.

Door Phones

AGFEO door phones may be connected to the analogue extension ports of the system.

Internet Telephony

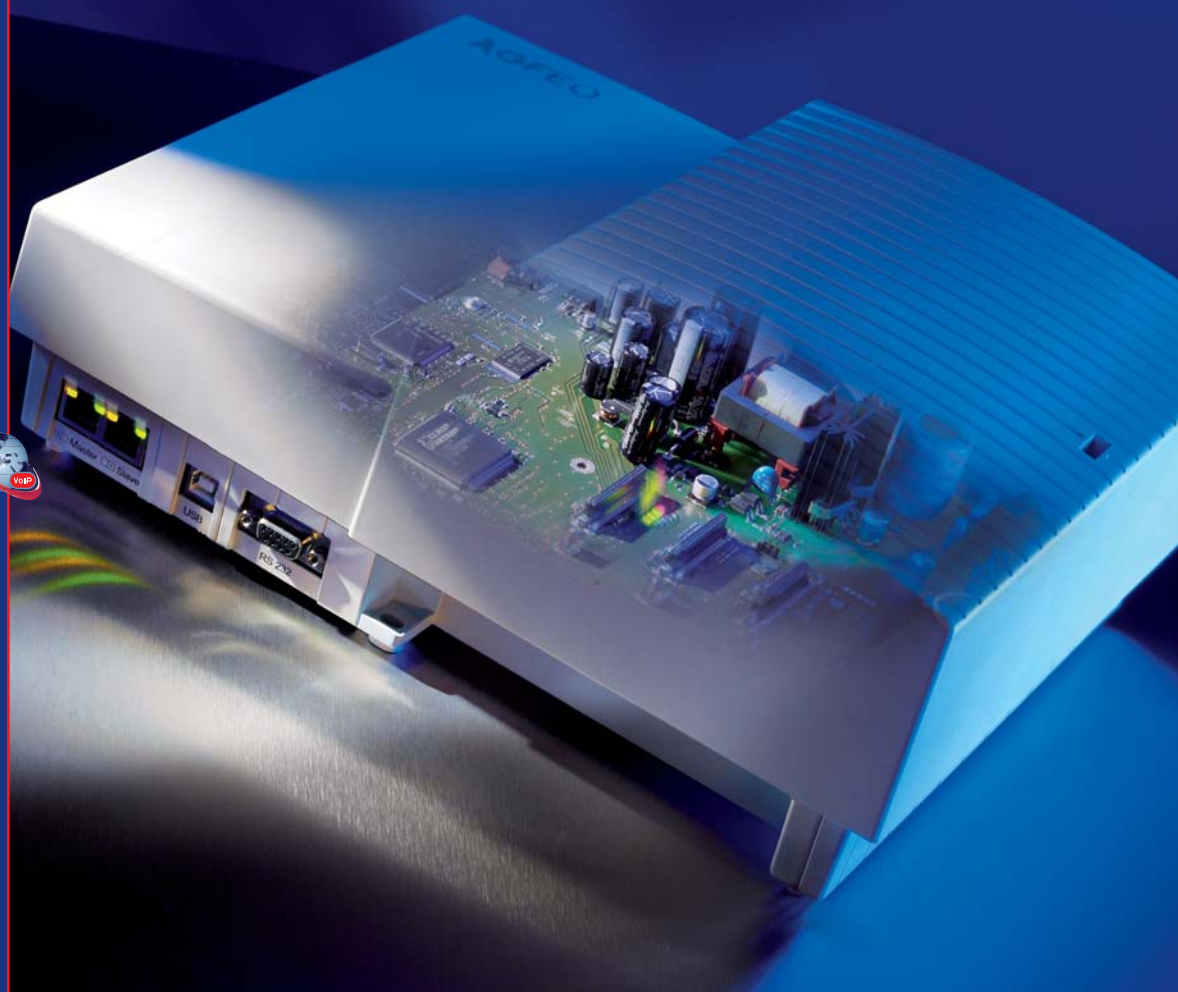
Either by implementing external internet telephony adapters (ATA) or the professional solution via the AGFEO LAN-Module.

Save on Installation Costs

Due to the special AGFEO UP0 technology old intact existing wiring may be reused.

System Phones

AGFEO System Phones have been optimised for the telephone system and offer ease of use, operation and control of the telephone system.



Initial Configuration AS 45

Suitable for Analogue, Basic Rate & Primary Rate ISDN Trunk Lines and IP connection.

- 1 PC Port (RS 232)
- 1 USB Port for system programming
- AIS/Auto Attendant on Board
- 1 Interconnection Port
- 5 Module Slots
- 1 TK-Suite Professional Software Package

Dimensions:
320 x 260 x 100 mm (W x H x D)

Select up to 5/10 Optional Expansion Modules

☐ **AL-Module 4504 (max. 5)** **0,9 W**
4 Analogue Trunk Lines including CLIP

☐ **UP0-Module 508 (max. 5/10)** **0,8 W**
8 UP0 System Phones

8 Extensions

☐ **LAN-Module 508 (max. 1)** **5,8 W**
8 IP Extensions (ASIP) for ST 40 IP System programming via LAN

8 Extensions

☐ **EIB-Module 522 (max. 1)** **0,1 W**
Operation of up to 32 EIB Objects ► Page 63

☐ **T-Module 508 (max. 5/10)** **1,9 W**
8 Analogue Extensions

8 Extensions

☐ **K-Module 524 (max. 5/10)** **1,5 W**
2 Switchable ISDN BRI Line (Trunk Access / Internal Use)
4 Analogue Extensions (CLIP)

8 Extensions

☐ **K-Module 544 (max. 3)** **1,4 W**
4 Alarm Inputs
3 Door Phones, 2 wire, FTZ, CE2-wire
2 Relays
Audio In- Output, Speaker output for MoH or Background Music

☐ **LAN-Module 510 (max. 1)** **5,8 W**
8 Switchable channels for SIP Provider, ST 40 IP or SIP devices
Protocol IoP, ASIP, SIP (RFC standard)
10 selectable providers, of which 8 may be active.
TK-Suite Server, TK-Suite Bill, SIP Registrar, Administration of an external hard drive (NAS), Router (DHCP/Client), DSL Modem (ADSL 2+, Annex B), System programming via LAN

TK-Suite Professional including CTI plus and Database packages on board.

8 Extensions

Recommended Phones

Analogue

- ☐ T 10
- ☐ T 15
- ☐ DECT 20



Analogue System Phone

- ☐ ST 15
- ☐ Door Phone (Speech and Opener)
- ☐ Fax
- ☐ Answering Machine



Digital System Phones

- ☐ ST 21
- ☐ DECT 45
- ☐ ST 31
- ☐ DECT 50
- ☐ ST 40
- ☐ ST 40 IP



☐ **S2M-Module 500 (max. 1)** **0,5 W**
PRI Trunk Access
Up to 20 Channels

☐ **S0-Module 540 (max. 5/10)** **0,7 W**
4 Switchable ISDN BRI Line (Trunk Access / Internal Use)

8 Extensions

28 The Answer to your IT Environment

AGFEO AS 200 IT



Suitable for BRI & PRI ISDN, Analogue- and Internet Telephony. The AS 200 IT is initially delivered with 5 free module slots and 5 blanking plates. Due to this the system can be individually configured with endless possibilities.

The system itself can be expanded for up to **40 Extensions** using the various AGFEO Modules. The maximum configuration can be of up to **80 Extensions** if two AS 200 IT are interconnected. Only a standard patch cable is required to interconnect two systems.

The AS 200 IT is a modular system throughout including the blanking plates. Purchase only as much of the telephone system as is required at the time and upgrade at an affordable price at a later stage.

The AS 200 IT with its communications expertise is designed for up to **40/80 extensions**, of which 36/72 can be AGFEO Digital System Phones – and still plenty of room to offer many special and unique features



TK-Suite Professional Software

Programming of the system is carried out via TK-Suite which operates independent of any platform on PC's, MAC's, Linux or UNIX Computers via your Web Browser. A multi level authorisation will allow each user to setup their individual features.

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TK-Suite Hotel Client

Special software for Hotels and Guest Houses available. ►Page 77

Expert Advice!

Will fit in any commercially available 19 inch cabinets, that will keep everything tidy.



Expansion options with the following

AGFEO products

☐ **Door Phones**

For information refer to Page 71


☐ **DECT S0 Base plus**

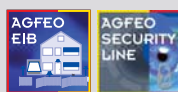
Integration of DECT System Phones
►Page 53


☐ **Wireless Alarm Controller/EIB**

Integration of Home Automation in AGFEO Telephone Systems
►Page 60



40/80
Extensions



Home Automation

The innovative design of the AS 200 IT telephone system offers the utilisation of home automation and security application. State of the art technology can be seamlessly integrated into the telephone system. ►Page 60



Audio Information System including Auto Attendant

The Audio Information System (AIS) offers a professional telephone appearance. Various announcements and Music on Hold recordings for waiting callers can be utilised which are far beyond a „standard“ telephone system.

The auto attendant is an automated switchboard. Callers can be connected to a specific extension or receive information by pressing the digit 0 – 9.

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ASIP (AGFEO System IP)
Communication via Data Networks

Internet telephony or data transfer, AGFEO offers with the LAN modules a professional solution.

►Page 72

Two AS 200 IT interconnected will cater for up to 80 extensions.



Patchfield must be ordered



Room for 5/10 optional modules.
Expand the system to your requirements.

Wake Up Calls

Individual Wake Up Calls with Announcements via the phone.

Music on Hold / Announcements

The Audio Information System delivers music, commercials or other special information to waiting callers on hold.

Door Phones

AGFEO door phones may be connected to the analogue extension ports of the system.

Internet Telephony

Either by implementing external internet telephony adapters (ATA) or the professional solution via the AGFEO LAN-Module.

Save on Installation Costs

Due to the special AGFEO UP0 technology old intact existing wiring may be reused.

System Phones

AGFEO Systems Phones have been optimised for the telephone system and offer ease of use, operation and control of the telephone system.

Save Energy

The system has a peak level cooling fan. This fan will only be switched on once the maximum temperature has been exceeded.

System Expansion

Two AS 200 IT interconnected will give an extension capacity of up to 80 ports.

Initial Configuration AS 200 IT

Suitable for Analogue, Basic Rate & Primary Rate ISDN Trunk Lines and IP connection.

- 1 LC-Display
- 1 PC Port (RS 232)
- 1 USB Port for system programming
- AIS/Auto Attendant on Board
- 1 Interconnection Port
- 5 Module Slots
- 1 TK-Suite Professional Software Package



Dimensions:
Height: 3 U, Width 19 inch, Depth: 30 cm (12 inches)

- ☐ **S2M-Module 500 (max. 1)** 0,5W
- PRI Trunk Access
Up to 20 Channels

- ☐ **S0-Module 540 (max. 5/10)** 0,7W
- 4 Switchable ISDN BRI Line
(Trunk Access / Internal Use)

8 Extensions

Select up to 5/10 Optional Expansion Modules

- ☐ **AL-Module 4504 (max. 5)** 0,9W
- 4 Analogue Trunk Lines
including CLIP

- ☐ **UP0-Module 508 (max. 5/10)** 0,8W
- 8 UP0 System Phones

8 Extensions

- ☐ **LAN-Module 508 (max. 1)** 5,8W
- 8 IP Extensions (ASIP) for ST 40 IP
System programming via LAN

8 Extensions

- ☐ **EIB-Module 522 (max. 1)** 0,1W
- Operation of up to 32 EIB
Objects ► Page 63

- ☐ **T-Module 508 (max. 5/10)** 1,9W
- 8 Analogue Extensions

8 Extensions

- ☐ **K-Module 524 (max. 5/10)** 1,5W
- 2 Switchable ISDN BRI Line
(Trunk Access / Internal Use)
- 4 Analogue Extensions (CLIP)

8 Extensions

- ☐ **K-Module 544 (max. 3)** 1,4W
- 4 Alarm Inputs
- 3 Door Phones, 2 wire, FTZ,
CE2-wire
- 2 Relays
- Audio In- Output, Speaker output
for MoH or Background Music

- ☐ **LAN-Module 510 (max. 1)** 5,8W
- 8 Switchable channels for
SIP Provider, ST 40 IP or
SIP devices
- Protocol IoP, ASIP, SIP
(RFC standard)
- 10 selectable providers,
of which 8 may be active.
- TK-Suite Server, TK-Suite Bill,
SIP Registrar, Administration of an
external hard drive (NAS), Router
(DHCP/Client), DSL Modem
(ADSL 2+, Annex B), System
programming via LAN

TK-Suite Professional including CTI
plus and Database packages on board.

8 Extensions

Recommended Phones

Analogue

- ☐ T 10
- ☐ T 15
- ☐ DECT 20



Analogue System Phone

- ☐ ST 15
- ☐ Door Phone
(Speech and Opener)
- ☐ Fax
- ☐ Answering Machine

Digital System Phones

- ☐ ST 21
- ☐ DECT 45
- ☐ ST 31
- ☐ DECT 50
- ☐ ST 40
- ☐ ST 40 IP



Patchfields must be ordered



Observe Module Options

30 Analogue Telephone

AGFEO T 10



On the wall or on the desk the analogue telephone T 10 always makes a good impression. Small but with all the necessary functions required. Value for money, modern design and functionality will distinguish this AGFEO analogue telephone.

■ On Touch Memory

The T 10 has two freely programmable direct memory buttons these may also be used as function buttons.

■ 10 Number Memory

A total of up to 10 numbers can be stored. These can also be used as system functions.

■ Recall Button

To make an enquiry call or to transfer the call to another extension.

■ Available Colours:

Black, Silver





T 10 Features

- 2 Direct Touch Memory
- 10 Number Memory
- Last Number Redial
- Recall Button, to transfer – or make an enquiry call
- Mute Button
- Adjustable Tone Ringer and Pitch
- Wall Mountable

Dimensions:
210 x 95 x 100 mm (Depth x Width x Height)

An additional wall mounting kit for awkward locations is also included.

Note:

May also be connected directly to an analogue trunk line.



32 Analogue Telephone

AGFEO T 15



At first glance, the T 15 catches your eye with its elegant, attractive design. But behind this modern exterior is a wealth of hidden features. AGFEO is setting new standards with this analogue telephone in design, features, value for money and superior quality. Just pick up the phone, it's worth it.

■ Display

Large and easy to read.

■ One Touch Memory

The T 15 has three freely programmable direct memory buttons these may also be used as function buttons.

■ 10 Number Memory

The phone can store up to 10 different numbers or functions.



✓ Expert Advice!

The T 15 has a headset connection as standard.



■ Phone Book

The telephone has a phone book for up to 70 entries.

■ VIP Feature

A special ring tone may be assigned to a stored number.

■ Recall Button

To transfer the call or make an enquiry call to another extension.

■ Available Colours

Black, Silver

■ Selectable Language

German, French, Italian, Spanish, Dutch, Danish, English



T 15 Features

- 3 Direct Touch Memory
- 10 Number memory
- Last Number Redial
- Recall Button, to transfer – or make an enquiry call
- Mute Button
- Adjustable Tone Ringer and Pitch
- Handsfree
- Headset Connection
- Large Display
- Displays: Name, Date & Time (CLIP)
- No Lost Calls. 61 Incoming Call Log
- Phone Book
offers storage for 70 telephone numbers and names
- VIP Feature
A special ring tone can be assigned to designated numbers
- Wall Mountable

Dimensions:
210 x 210 x 100 mm (Depth x Width x Height)

The required power supply is included with this phone.

Accessories T 15

- Adapter Cable T 15
for AGFEO Headset 2100 and 2200

Additional Accessories

- AGFEO Headset 2200 Corded
► Page 52

- AGFEO Headset 2100 Corded
► Page 52

Note:

Operation of the AGFEO Headsets 2100 and 2200 will require an adapter cable.

Note:

Suitable for the direct connection to an analogue trunk line.



34 Cordless Analogue Phone

AGFEO DECT 20



Multi-talented for your workplace or at home.

The DECT 20 has two memory buttons to store frequently used telephone numbers.

■ Phone Book

The handset has a phone book of up to 200 entries.

■ Menu Navigation

with Animated Display. The menu is similar to many mobile phones. You may store numbers during a telephone conversation.

■ Adjustable Background

You have the choice of different pictures and background colours.



● Graphical Colour Display

● Menu Preview

● 2 Function Buttons

● Navigation Buttons

● Base

✓ Expert Advice!

The DECT 20 has multibase capability. To increase the coverage area you can register the handset to a number of DECT 20 base units. An answered call cannot roam to another base.



■ Selectable Language

German, English, French, Italian, Spanish.

■ Record your own Ringtone

You can record your own personal ringtone of up to 8 seconds.

■ 2 Function Buttons

Two buttons may be used to store frequently used telephone functions.

■ Available Colours

Black (Piano lacquered)

■ Door Chime

Various melodies may be selected for a better differentiation between different calls.



Some selected Features

- Graphical Colour Display
- Handsfree operation
- Muting of Microphone
- Call Back on Busy
- Internal communication between two handsets
- SMS Messaging
- Call Log for incoming and outgoing calls
- Redial function
- Appointment reminder (up to 10 Appointments)
- Pocket Calculator
- Room Monitoring (in connection with a second handset)
- Emergency function
- Timer account for outgoing calls
- Call Barring for up to 5 special numbers (i. e. 09xx....)
- Conference Call of two mobile handsets
- Energy Saving Mode, optimises energy efficiency
- Time & Date Display
- 20 Ring Tones
- Key Pad Lock
- 2 Programmable Function Buttons, to store most used telephone functions.

Dimensions:

Handset

18 x 47 x 133 mm (Depth x Width x Height)

Weight: 124g (incl. Batteries)

Base

110 x 110 x 38 mm (Depth x Width x Height)

Charging Cradle

50 x 65 x 37 mm (Depth x Width x Height)

Accessories DECT 20

Additional handset with charging cradle and power supply.



Note:

Suitable for the direct connection to an analogue trunk line.

36 Analogue System Phone

AGFEO ST 15



■ Multi Function Display

Optimum Readability of:
Call Log
Phone Book
Date & Time
Extra entry for none viewed call log entries
Menu Navigation
Caller ID info

■ Acoustic Settings

Volume control can be adjusted separately for receiver, headset and speaker.

■ Headset Connection

for the connection of corded headsets.

At first glance, the ST 15 catches your eye with its elegant, attractive design. But behind this modern exterior is a wealth of hidden features.

AGFEO is setting new standards with this analogue system telephone ST 15 in design, features, value for money and superior quality. Just pick up the phone, you will be pleasantly surprised.



✓ Expert Advice!

Due to the 2 wire connectivity old Analogue Telephones can be easily replaced with System Phones.



■ Computer Telephony CTI

Call handling via the PC, i.e. dialling by using the mouse.

■ 6 Function Buttons with LED indication

For 6 most frequently system functions or telephone numbers.

■ Phone Book

up to 80 entries

■ Available Colours

Black, Silver

■ Supported Languages

German, French, Italian, Spanish, Dutch, Danish, English

■ Version

Analogue Telephone (SLT)



Some selected Features

- Message Waiting LED
- Multi Function Display
- Navigation Buttons
- 6 Programmable Function Buttons with LED Indication
- Direct Volume Control
- Call Log with Date & Time and Name
- Caller ID, see who is calling
- 80 Phone Book Entries
- Headset Connection
- Replaceable Handset Cable
- Illuminated Display
- 10 Number Memory

Dimensions:
210 x 210 x 100 mm (Depth x Width x Height)

Requires Plug In Power Supply (included).

Accessories ST 15

- Adapter Cable T 15
for AGFEO Headset 2100 and 2200

Additional Accessories

- AGFEO Headset 2200 Corded
► Page 52

- AGFEO Headset 2100 Corded
► Page 52

Note:

Operation of the AGFEO Headsets 2100 and 2200 will require an adapter cable.



38 System Telephone

AGFEO ST 21



Many features with a clear layout and very easy to operate.

The ideal phone for the professional user who requires an additional aid in the daily work routine.

The ST 21 System Phone is a perfect entry level telephone which has been specifically designed for the use with AGFEO Telephone Systems.

■ Two Line Display

Easy legible due to adjustable display angle.

■ Acoustic Settings

Handset volume and Microphone sensitivity can be set separately.

■ Headset Connection

For the connection of a corded headset.

■ Computer Telephony CTI

Call handling via the PC, i.e. dialling by using the mouse.

■ 10 Function Buttons with LED indication

For 10 most frequently system function or telephone numbers.

■ Selectable Language

German, English, other languages on request

Country Specific Language Display



10 Freely Programmable Functions can be stored such as: Speed Dialling, Call Transfer, Conference Call, etc.

2 Line Display – with an adjustable viewing angle. (Caller ID, Call Charges, Call Log)

Navigation Buttons

Function Buttons with LED's

Phone Book

Acoustic Settings

Speaker (Off Hook Button)

Extensions are busy

Lines are in use

Call Diversion enabled

✓ Expert Advice!

This system phone is the entry level for professional telephony. Ideally suited for the connection to the AGFEO Telephone Systems AS 151 plus or AS 181 plus for home or office use.



■ Emulation Mode

A special function which enables the ST 21 to be connected to older types of AGFEO Telephone Systems. Further information on Page 81

■ Phone Book

Access up to 1000 entries depending on telephone system used.

■ Busy Lamp Field

The display of the system phone will indicate the line and extension status, i.e. which lines are in use and which extensions are busy.

■ Available Colours

Black, Silver, White

■ Version

S0 or UP0



Some selected Features

- 2 Line Display
- Phone Book
- Call Log
- Busy Lamp Field
- Caller ID, see who is calling
- Handsfree / on Hook operation
- Headset Connection
- Fixed Navigation Buttons

Dimensions:
235 x 210 x 130 mm (Depth x Width x Height)



Accessories System Phone ST 21

AGFEO Untangler®



A special rotary mechanism ensures that the handset cable will not get twisted.

Gold plated contacts within this device will offer best speech quality. Only the original AGFEO Untangler® will have a correct fit and guarantee the highest quality of speech.

Additional Accessories

AGFEO Headset 2200 Corded
► Page 52

AGFEO Headset 2100 Corded
► Page 52

Wall Mounting Kit



40 System Telephone

AGFEO ST 31



The ST 31 with the proven AGFEO concept of operation and the plus on features, has been further developed with further improvements for today's modern telephony.

Static navigation buttons below the display area will offer the next operational feature available.

Many features are clearly laid out and are very easy to operate.

■ Ergonomically Perfect Housing Concept

Designed to latest modern perception.

■ Display, Illuminated

The angle of the display is adjustable.

■ Acoustic Settings

Handset volume and Microphone sensitivity can be set separately.

■ Expansion Slot

2 Module Slots:

- a) for Answering Machine
- b) reserved for future use

■ Headset Connection

for corded or cordless AGFEO Headsets.

■ Computer Telephony CTI

Call handling via the PC, i.e. dialling by using the mouse.

■ Selectable Language

German, English, other languages on request

Country Specific Language Display



20 Freely Programmable Functions can be stored such as: Speed Dialling, Call Transfer, Conference Call, etc.

4 Line Display – with an adjustable viewing angle. (Caller ID, Call Charges, Call Log)

Navigation Buttons

Function Buttons with LED's

Phone Book

Acoustic Settings

Speaker (Off Hook Button)

✓ Expert Advice!

Upgrade your phone with the optional answering machine module, this way each of the incoming call groups will receive an individual announcement.



■ 10 Function Buttons with LED indication

For 20 most frequently system functions or telephone numbers.

■ Emulation Mode

A special function which enables the ST 31 to be connected to older types of AGFEO Telephone Systems. Further information on Page 81.

■ Phone Book

Access up to 1000 entries depending on telephone system used.

■ Busy Lamp Field

The display of the system phone will indicate the line and extension status, i.e. which lines are in use and which extensions are busy.

■ Available Colours

Black, Silver, White

■ Version

S0

Some selected Features

- 4 Line Display
- Phone Book
- Call Log
- Busy Lamp Field
- Caller ID, see who is calling
- Handsfree/on Hook operation
- SMS function (only with optional A-Module 40)
- Headset Connection
- Fixed Navigation Buttons
- World Clock with Display of Calendar Week

Dimensions:

235 x 210 x 130 mm

(Depth x Width x Height)



1 Slot for optional Expansion

AGFEO Answering Machine A-Module 40

0,5W

Answering Machine with Announcement Management System

Answering Machine Functions

- 40 minutes recording time
- Pre-Recorded messages included
- Remote interrogation with voice prompts
- Additional Information: Time & Date, Name or Number and message length will also be displayed in LCD of system phone
- Time controlled announcement selection
- SMS function expansion of System Phone
- System Phone ring tones can be saved to the Answering Machine as WAVE or MP3 file



Features of Announcement Management System

- 6 individual announcements can be allocated to selected MSN's (incoming lines)
- Voice Box:
You may record a message in the voice box which is only directed to a particular extension. Simple to use, for example: On your system phone you assigned a function button as "Voice Box Mr. Brown". Press this button and record a message, that's it. An LED at the system phone of Mr. Brown will indicate that there is a message waiting for him. Your status LED will indicate that Mr. Brown has listened to the message.

AGFEO SystemHeadset 9120
Cordless
► Page 50

AGFEO Headset 9120
Cordless
► Page 51

AGFEO Headsets
2200/2100
Corded
► Page 52



Additional Accessories for the ST 31

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AGFEO Untangler®

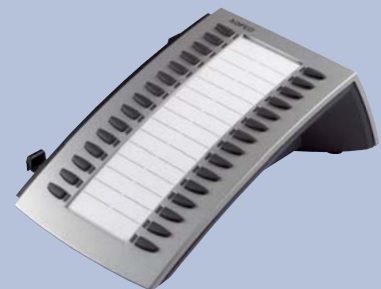


A special rotary mechanism ensures that the handset cable will not get twisted.

Gold plated contacts within this device will offer best speech quality. Only the original AGFEO Untangler® will have a correct fit and guarantee the highest quality of speech.

AGFEO STE 40
System Phone Expansion Console

1,5W



To assist anybody who has to make a lot of telephone calls and requires access to many features. The STE 40 System Phone Console offers 30 freely programmable buttons including LED indication.

Busy extensions or lines can be seen at a glance, which will assist in the connection of incoming calls. Therefore waiting times are reduced for callers which will underline your competence in call handling.

The STE 40 can be connected to the system phones ST 31 and ST 40. A maximum of four STE 40's can be connected to the system phones ST 31 and ST 40. The total number of STE 40's which may be connected will depend on the relevant telephone system.

Note:

Operation only with suitable system firmware.

The operation of the STE 40 will require an optional Plug In Power Supply Unit.

Wall Mounting Kit



42 System Telephone

AGFEO ST 40

**"First Class" Call Handling Features.**

The ST 40 is setting new standards in functions and operation. Navigation buttons below the display offer the next operational feature available. The most simplest of user guidance available today.

The housing concept has been designed to the latest modern perception and is ergonomically perfect.

The illuminated graphic display offers a high contrast for text and graphic (Black on a white background). The angle of the display area is adjustable.

Country Specific
Language Display

■ Ergonomically Perfect Housing Concept

Developed to latest modern findings.

■ Graphic Display, Illuminated

Maximum possible contrast for text and graphic (black on white background), adjustable view angle.

■ Acoustic Settings

Handset volume and Microphone sensitivity can be set separately.

■ Expansion Slot

2 Module Slots:
a) for Answering Machine
b) reserved for future use

■ Headset Connection

for corded or cordless AGFEO Headsets.

■ Selectable Language

German, English,
other languages on request



20 Freely Programmable Functions can be stored such as: Speed Dialling, Call Transfer, Conference Call, etc.

Illuminated Graphic Display Area – with an adjustable viewing angle. (Caller ID, Call Charges, Call Log)

Navigation Buttons

Function Buttons with LED's

Phone Book

Acoustic Settings

Speaker (Off Hook Button)

✓ Expert Advice!

Adding the STE 40 will make the ST 40 the ideal operator console.



■ Computer Telephony CTI

Call handling via the PC, i.e. dialling by using the mouse.

■ 10 Function Buttons with LED indication

For 20 most frequently system functions or telephone numbers.

■ Phone Book

Access up to 1000 entries in the AGFEO telephone system using Vanity plus search.

■ Busy Lamp Field

The display of the system phone will indicate the line and extension status, i.e. which lines are in use and which extensions are busy.

■ Available Colours

Black, Silver, White

■ Version

S0 or UP0

Some selected Features

- Graphic Display
- Phone Book
- Call Log
- Busy Lamp Field
- Caller ID, see who is calling
- Handsfree / on Hook operation
- SMS function
(only with optional A-Module 40)
- Headset Connection
- Soft Navigation Buttons
- World Clock with Display of Calendar Week

Dimensions:

235 x 210 x 130 mm

(Depth x Width x Height)



1 Slot for optional Expansion

AGFEO Answering Machine A-Module 40

0,5W

Answering Machine with Announcement Management System

Answering Machine Functions

- 40 minutes recording time
- Pre-Recorded messages included
- Remote interrogation with voice prompts
- Additional Information: Time & Date, Name or Number and message length will also be displayed in LCD of system phone
- Time controlled announcement selection
- SMS function expansion of System Phone
- System Phone ring tones can be saved to the Answering Machine as WAVE or MP3 file
- Alternatively to ring tone function, Answering Machine can answer another call if phone is in use



Features of Announcement Management System

- 6 individual announcements can be allocated to selected MSN's (incoming lines)
- Voice Box:
You may record a message in the voice box which is only directed to a particular extension. Simple to use, for example: On your system phone you assigned a function button as "Voice Box Mr. Brown". Press this button and record a message, that's it. An LED at the system phone of Mr. Brown will indicate that there is a message waiting for him. Your status LED will indicate that Mr. Brown has listened to the message.

AGFEO SystemHeadset 9120
Cordless
► Page 50

AGFEO Headset 9120
Cordless
► Page 51

AGFEO Headsets
2200/2100
Corded
► Page 52



Additional Accessories for the ST 40

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AGFEO Untangler®



A special rotary mechanism ensures that the handset cable will not get twisted.

Gold plated contacts within this device will offer best speech quality. Only the original AGFEO Untangler® will have a correct fit and guarantee the highest quality of speech.

AGFEO STE 40
System Phone Expansion Console

1,5W



To assist anybody who has to make a lot of telephone calls and requires access to many features. The STE 40 System Phone Console offers 30 freely programmable buttons including LED indication.

Busy extensions or lines can be seen at a glance, which will assist in the connection of incoming calls. Therefore waiting times are reduced for callers which will underline your competence in call handling.

The STE 40 can be connected to the system phones ST 31 and ST 40. A maximum of four STE 40's can be connected to the system phones ST 31 and ST 40. The total number of STE 40's which may be connected will depend on the relevant telephone system.

Note:

Operation only with suitable system firmware.

The operation of the STE 40 will require an optional Plug In Power Supply Unit.

Wall Mounting Kit



44 System Telephone

AGFEO ST 40 IP



AGFEO System IP -
Making Calls by using ASIP!

The System Phone ST 40 IP is setting new standards in the VoIP Telephony arena. The AGFEO ST 40 IP is suitable for all telephone systems with AGFEO System IP connectivity (ASIP) and offers the proven AGFEO System Phone functionality via the LAN/WAN. The IP phones can be connected directly to the network making additional telephone lines redundant.

The housing concept has been designed to the latest modern perception and is ergonomically perfect.

The illuminated graphic display offers a high contrast for text and graphic (black on a white background). The angle of the display area is adjustable.

Country Specific
Language Display

■ Ergonomically Perfect Housing Concept

Developed to latest modern findings.

■ Graphic Display, Illuminated

Maximum possible contrast for text and graphic (black on white background), adjustable view angle.

■ Acoustic Settings

Handset volume and Microphone sensitivity can be set separately.

■ Expansion Slot

2 Module Slots reserved for future use

■ Headset Connection

For corded or cordless AGFEO Headsets.

■ Selectable Language

German, English, other languages on request



20 Freely Programmable Functions can be stored such as: Speed Dialling, Call Transfer, Conference Call, etc.

Illuminated Graphic Display Area – with an adjustable viewing angle. (Caller ID, Call Charges, Call Log)

Navigation Buttons

Function Buttons with LED's

Phone Book

Acoustic Settings

Speaker (Off Hook Button)

✓ Expert Advice!

The ST 40 IP does not require an answering machine, it utilises any existing answering machines of the ST 40 Upo/50 or the ST 31.



■ Computer Telephony CTI

Call handling via the PC, i.e. dialling by using the mouse.

■ 10 Function Buttons with LED indication

For 20 most frequently system functions or telephone numbers.

■ Phone Book

Access up to 1000 entries in the AGFEO telephone system using Vanity plus search.

■ Busy Lamp Field

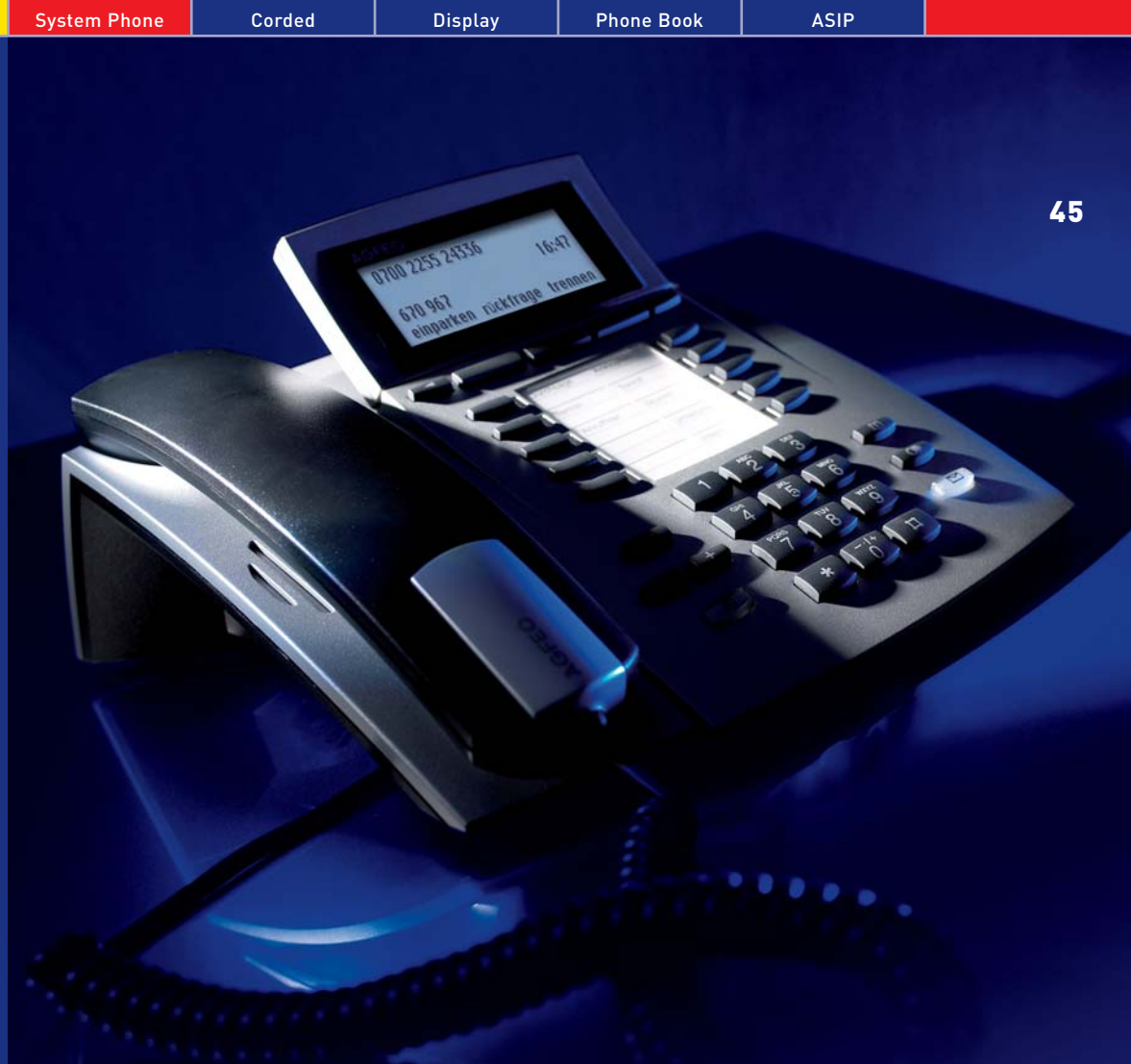
The display of the system phone will indicate the line and extension status, i.e. which lines are in use and which extensions are busy.

■ Available Colours

Black, Silver

■ Version

IP/ASIP



Some selected Features

- Graphic Display
- Phone Book
- Call Log
- Busy Lamp Field
- Caller ID, see who is calling
- Handsfree / on Hook operation
- Headset Connection
- Soft Navigation Buttons
- World Clock with Display of Calendar Week

Dimensions:

235 x 210 x 130 mm
(Depth x Width x Height)

Note:

Power supply via PoE (Power via Ethernet). An optional AGFEO power supply is required if operated on a network without PoE.



Additional Accessories for the ST 40

AGFEO Untangler®



A special rotary mechanism ensures that the handset cable will not get twisted.

Gold plated contacts within this device will offer best speech quality. Only the original AGFEO Untangler® will have a correct fit and guarantee the highest quality of speech.

AGFEO SystemHeadset 9120

Cordless

► Page 50

AGFEO Headset 9120

Cordless

► Page 51

AGFEO Headsets

2200/2100

Corded

► Page 52



AGFEO STE 40

System Phone Expansion Console

To assist anybody who has to make a lot of telephone calls and requires access to many features. The STE 40 System Phone Console offers 30 freely programmable buttons including LED indication.

Busy extensions or lines can be seen at a glance, which will assist in the connection of incoming calls. Therefore waiting times are reduced for callers which will underline your competence in call handling.

The STE 40 can be connected to the system phones ST 31 and ST 40. A maximum of four STE 40's can be connected to the system phones ST 31 and ST 40. The total number of STE 40's which may be connected will depend on the relevant telephone system.

Note:

Operation only with suitable system firmware.

The operation of the STE 40 will require an optional Plug In Power Supply Unit.

Wall Mounting Kit



46

Cordless System Phone

AGFEO DECT 45

This mobile handset stands out due to toughness and a long service life expectancy. It is especially suited for use in commercial applications.



- Quick Dial Button
- Calls in Call Log
- See who is on the phone
- Navigation Buttons
- Phone Book
- Numeric Keypad i. e. for the operation of your EIB Home Automation.
- Vibration Alert

■ 10 Function Buttons

For 10 frequently used system functions.

■ Phone Book

The handset has a phone book of up to 200 entries and can access, depending on system type, 1000 entries of the central dialling memory of the telephone system.

■ Busy Lamp Field

Pressing the off hook button on the handset will display the line and extension status of the system.

The AGFEO System DECT's can only be operated by using the DECT S0 Base plus units. Further information can be found on Page 53.

■ Ease of Use

The handset offers, amongst other features, the AGFEO Vanity plus search assistance, status display and signalling of new entries in the call log.

**IP-54
Splash – and Dust Protection**

Run over test with a four by four: AGFEO DECT 45



✓ Expert Advice!

You may use additional repeaters to extend the range. Further information on Page 53.



■ Selectable Language

German, English,
other languages on request

■ IP-54

AGFEO's DECT 45 is splash –
and dust protected.



■ Sturdy

Drop tested and repeated twice
from a height of 1.5 m with no
malfunction.



Some selected Features

- Illuminated Graphical Display, Monochrome
- Phone Book
- Call Log
- Status Display
- Caller ID, see who is calling
- Headset Connection
- Navigation Buttons
- Keypad Lock
- Vibration Alert
- Various Ringtones

Dimension:

Handset

28 x 50 x 148 mm (Depth x Width x Height)

Weight: 130 g (incl. Batteries)

Charging Cradle

71 x 90 x 80 mm (Length x Width x Height)

Accessories DECT 45

- ☐ Additional Charging Cradle including Plug In Power Supply



- ☐ Belt Clip, latches to the telephone housing



- ☐ Leather Case with Belt Clip, latches to the leather case



- ☐ Adaptor Cable 30/35/45/50 for AGFEO Headsets 2100 and 2200

Additional Accessories

- ☐ AGFEO Headset 2100/2200 corded ► Page 52

Note:

Adapter Cable required for the operation of AGFEO Headsets 2100 and 2200.



Do not imitate! This will give scratches.



Telephone as a sturdy tool

48 Cordless System Phone

AGFEO DECT 50



Uncompromisingly Versatile

If making calls or controlling all your house electric's, the DECT 50 system phone forms a composition of modern design with an ease of operation. The large graphical display allows an innovative ease of use via AGFEO's graphical user interface.

The DECT 50 can be operated on various AGFEO Telephone Systems. ►Page 81

Simplest of Operation!



- Last Number Redial
- Call Log
- Function Button Overview
- Phone Book

Pairing

With the pairing function the ST 40 and DECT 50 will be treated as one device. You can set-up a call on your ST 40 and continue the conversation on your DECT 50 or vice versa. Broker between devices by just lifting the handset. The call can be easily continued on the other phone. Features which are enabled on the ST 40 will also be displayed on the DECT 50.

Furthermore the DECT 50 has its own 10 function buttons and therefore offer a total of 30 function buttons for your ST 40 / DECT 50 combined. To complete this concept both phones have a shared call log and answerphone.



- Volume
- Headset Socket
- Multi Function Display
- Navigation Buttons
- Keypad Lock

■ Door Chime

Different ringtones can be allocated individually to external lines (MSN/DDIs) so that a differentiation between incoming lines are possible.

■ Phone Book

The handset has up to 250 phone book entries. In addition, depending on the relevant telephone system, the handset has access of up to 1000 central phone book entries.

■ Status Display (Busy Lamp Field)

Pressing the off hook button on the handset will display the line and extension status of the system.

The AGFEO System DECT's can only be operated in conjunction with the DECT 50 Base plus units. Further information can be found on Page 53.

■ Repeater Suitable

Additional repeaters may be used in order to extend the coverage area. Further information can be found on Page 53.

✓ Expert Advice!

Outstanding suitability for control of home automation applications. Sophisticated reception technology for multi cell capability.



■ 10 Function Buttons

For the most frequently used system functions. Using the navigation buttons an overview of the function button allocation can be displayed.

■ Acoustic Settings

Volume for speaker and headset can be separately controlled.

■ Optimum Ease of Use

The handset offers, amongst other features, the AGFEO Vanity plus search assistance, status display and signalling of new entries in the call log.

■ Call Log / Connection Log

If the system has call logging enabled for your extension, then all incoming and outgoing calls will be logged and sorted into answered -, missed - and returned calls.

■ Selectable Language

German, English, other languages on request



Important DECT 50 Symbols

	Call Diversion
	Wake Up Call
	Phone Lock
	Relay, i. e. Lights on/off
	Day / Night Service
	Do not Disturb
	Withhold Number
	EIB Remote Operation
	System Menu
	Answerphone Interrogation
	Appointment Reminder
	Call Filter
	Call Waiting

Some selected Features

- Illuminated Graphical TFT-Colour Display
- Caller ID, see who is calling
- Handsfree / On Hook Dialling
- Navigation Buttons can display overview of function button allocation
- 2 Soft Keys
- Time & Date Display
- 10 Ringtones with adjustable volume, incl. special door chime
- Keypad Lock
- Energy Saving Mode
- Vibration Alert
- Headset Connection
- Ringtone also in Headset
- Status Display
- Auto Answer
- Future Proof due to Software Updates

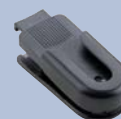
Dimensions:

Handset
146 x 48 x 19 mm (Depth x Width x Height)
Weight: 110 g (incl. Batteries)

Charging Cradle
90 x 25 x 65 mm
(Diameter x Base Height x Height)

Accessories DECT 50

- ☐ Belt Clip, latches to the telephone housing



- ☐ Leather Case with Belt Clip, latches to the leather case



- ☐ Additional Charging Cradle including Power Supply



- ☐ Adaptor Cable 30/35/45/50 for AGFEO Headsets 2100 and 2200

Additional Accessories

- ☐ AGFEO Headset 2100/2200 corded ► Page 52

Note:

Adapter Cable required for the operation of AGFEO Headsets 2100 and 2200.

50 More Freedom of Movement

AGFEO SystemHeadset 9120

The AGFEO SystemHeadset 9120 – is the cordless revolution based on the DECT-GAP standard with special adaptation for the AGFEO DECT S0 Base plus unit. This is the new freedom of movement with unrivalled talk time.

The AGFEO DECT-solution and the stylish headset design will unlock all freedom, which as a professional you require in a modern day office environment. You are always reachable, even if you are not at your desk. This is because you answer an incoming call directly on your headset. Outgoing calls can be set up by using any corded AGFEO System Phone. You decide how to wear the headset which you can change as often as you like. Depending on your personal preference you can choose to wear your AGFEO SystemHeadset with a headband or, as not to interfere with your hair style, with an ear hook.

Absolute Freedom!

Make calls from wherever you want. Walk through the office, contact colleagues, look through files – the choice is yours. The AGFEO SystemHeadset will always automatically connect to the DECT S0 Base plus unit or the nearest repeater thereof and will afford you the limitless freedom of movement.

Stay Flexible

You are in a discussion with your colleagues in the conference room on the third floor and have to make a call on short notice. To continue using the headset you won't have to return to your own desk and your own telephone extension. You can dial a number by using a corded system phone of your colleague via remote dialling.

Supplied with Headband and Ear Hook.

Pictured with Ear Hook



Charging Cradle for the AGFEO DECT Headset. Pictured with Headband

SystemHeadset 9120 Features

- Range depending on repeater
- Talktime of up to 12 hours
- Battery charging cycle: 1.5 hours
- Mute
- Adjustable receiver volume
- Adjustable transmission volume
- Acoustic Shock protection
- Changeable Battery
- 1.8 DECT Technology
- Transmission Power 01 – 63 mW
- Weight (Headset): 37 Grams

This type of headset can only be used in connection with the AGFEO DECT S0 Base plus unit.



AGFEO DECT S0 Base plus

The AGFEO DECT S0 Base unit is an external DECT transceiver in its own housing. Up to 8 GAP compatible DECT handset may be registered to the unit.

► Page 53

✓ Expert Advice!

The best option for PC workstations. The headset will be operated via TK-Suite from your computer.



The Cordless Icing on the Cake for Mobility in the Office

AGFEO Headset 9120

The AGFEO headset including the DECT base with DHSG technology will offer, in connection with an AGFEO System Phone, total user flexibility. The AGFEO System Phone offers a DHSG interface, this will allow the automatic answering of incoming calls directly from the headset without the use of any headset lifters. A ringing tone in the headset will signal an incoming call which then can be answered or ended directly on the headset by pressing the associated button.

Suitable for AGFEO System Phone ST 31 or ST 40.



51



Charging Cradle with integrated transceiver for the AGFEO Headset 9120



Pictured with Headband

Pictured with Ear Hook



52 Using the Phone becomes an Enjoyment

AGFEO Headset 2200

Experience the comfort of this AGFEO Headset. You may even forget that you are on the phone – beware as not to trip over the cable. The AGFEO headset 2200 meets all the expectations of a modern office environment.

The flexible microphone boom is fitted with a noise cancelling microphone as standard. Background noise is reduced to a minimum so you will be clearly understood. The lightweight design and leatherette ear cushion guarantee lasting comfort throughout the day.

- Elegant design
- Lightweight - for added comfort
- Superb sound quality with noise cancelling microphone as standard

Suitable for digital, corded AGFEO System Phones with a headset connection.
Other models will require an adapter.

Pictured with Headband



Your Individual Headset

AGFEO Headset 2100

The outstanding sound quality will probably exceed anything you have experienced in headsets to date. The AGFEO Headset 2100 will make you almost believe that you are talking to the caller in person. You can assemble your own individual headset, all you require is included.

- Ultralight – Guarantees lasting comfort throughout the day
- 3-in-1-Design – Design your individual headset
- Perfect Sound Reproduction – Noise cancelling microphone as standard
- Practical – only a single cable

Suitable for digital, corded AGFEO System Phones with a headset connection.
Other models will require an adapter.

Includes: Headband, Ear Hook and Ear Loop

Pictured with Headband

Pictured with Ear Loop

Pictured with Ear Hook



Cordless System DECT Transceiver

AGFEO DECT S0 Base plus



AGFEO's DECT S0 Base unit is an external DECT transceiver. This will be connected via an ISDN connection cable to the internal S0 bus of an appropriate AGFEO Telephone System.

Up to eight AGFEO System DECT Handsets, or other DECT handsets, which are GAP compatible can be connected to the DECT S0-Base plus (standalone). In a multi cell application a total of up to 16 AGFEO System DECT Handsets DECT 30/35/45/50 or System Headsets can be connected.

A maximum of four cordless telephones can have a simultaneous conversation within each cell. Due to the S0 switching technology a DECT S0 Base plus can be up to 130 metres away from the telephone system. This distance may be increased to 800 metres if a point to point connection is used. Each DECT S0 Base will require two internal S0-connections.

Depending on telephone system up to 4 DECT Base Units with 16 System DECT Handsets may be operated in a multi cell installation.

Multi cell installations will only be supported with an appropriate telephone system firmware. Information was not available when going to press, please ask your dealer/installer for further information.



Extend the range of the AGFEO ISDN DECT application for:
AGFEO System Phones DECT 30/35/40/45/50 and AGFEO SystemHeadset 9120

AGFEO Repeater



The AGFEO 4 channel repeater is used to extend the range of the AGFEO ISDN-DECT application. The repeater is a stand alone unit suitable for wall or ceiling installation.

With the aid of one or more repeaters the radio signal is received from the DECT S0 Base plus unit, boosted and then re-transmitted. The unit will contribute in extending the radio coverage even in inaccessible areas within buildings.



Expert Advice!

Request a detailed plan for your DECT solution from your AGFEO specialist.



54 Communications Applications with AGFEO Products

einfach | perfekt | kommunizieren

The innovative, powerful AGFEO applications with its wealth of professional features and functions – such as home automation, home security, Voice over IP and the Audio Information System – will not only give you the feeling of experiencing telecommunications in its variety, but also the assurance to use future orientated technologies right now.

The following examples reflect only a small spectrum of the feature diversity of our products. Individual possibilities distinguish AGFEO products and offer no limit to your imagination.



Typical Example: Shared Living

Separate Billing with TK-Suite Bill

The four of us share everything. The accommodation, the jam at breakfast and our enthusiasm for Monopoly evenings. However, we have nothing in common when it comes to the telephone bill. To save money we installed an ISDN line with six DDI telephone numbers. Thanks to our AGFEO AC 14 WebPhonie Telephone System, each of us can now connect a telephone with its own phone number. Call charges are then calculated for each DDI number separately. Also the daily calls from Frank's mother are under control, if her number appears on the display of Frank's phone, then we all agree on one thing – we are simply not at home.

Following AGFEO products were used:

- ISDN Telephone System AC 14 WebPhonie (► Page 10) including TK-Suite Professional Software as standard
- 4 Analogue Telephones T 15

Applied features for the above example:

Communication Software Pack: TK-Suite Professional
AGFEO Caller ID – see who is calling
Billing of call charges via TK-Bill



Typical Example: Family Live

Our dream is fulfilled: Our own home with plenty of room for the children and our dog Oscar. Right from the beginning we decided, in co-operation with our electrician, for the installation of a modern Telephone System, the AGFEO AS 281 All-In-One, which can do a lot more than only making telephone calls.

My wife has green fingers. When in the garden she always is wielding a rake or spade. She carries a cordless phone so that she can be contacted even in furthest corner of our garden. With this she can answer any incoming call and even is able to hear the door bell, and all that without taking off her wellies.

Pocket Money

Our twins Greta and Paula now have their own rooms. Greta is surfing for hours the internet to find as much information on Shetland ponies. Whereas Paula is always calling her friend Rachel to discuss the latest happenings in their favourite Soap. The AGFEO pocket money feature of the system helps so that we do not lose sight of the telephone bill.

Working from Home

I am working a lot from home and enjoy all features this system offers. Every room in the house has a telephone, in my office I use the professional AGFEO ST 31 System Phone, which helps me to keep everything under control.

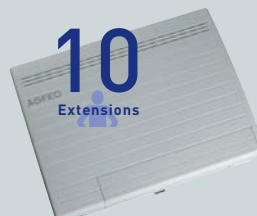
Home Security

With the aid of the TK-Suite Software I also use the system to manage my appointments. I even open the garage door via the mobile phone, without getting out of the car, that is if the children don't have their bikes in front of the garage. Oscar is the coward in our family and we believe that he will be quite relieved that he will no longer be required to be the guard dog – as even this task is also performed by the telephone system with the many Alarm Functions. So all what's left for Oscar is the aggro with the cats in the neighbourhood.

Following AGFEO products were used:

- AS 281 All-In-One (► Page 18) including TK-Suite Professional Software as standard
- 1 System Phone ST 31
- 2 Analogue Phones T 15
- 2 Analogue DECT 20
- 1 WAC
- Various Wireless Alarm Detectors

Applied features for the above example:
Communication Software Pack TK-Suite Professional
Pocket Money Account (Call Credit)
Home automation Security Line



56 Typical Example: Painter & Decorator

Managing Appointments with TK-Suite

I took over the painting and decorating business from my father some 10 years ago. I have a trainee to help me on my jobs, but have had to learn an awful lot myself over the past few years. Like modern wipe techniques and lots of other special decorating applications. In fact everything that's in. That's what my customers expect from me. The same as they expect to work on schedule. The planning of appointments are in the hands of my wife. Customers like her, she never forgets an appointment or a quotation. She is supported by our AS 35 Telephone System. My wife answers calls directly on her PC and makes notes and appointments directly via the intelligent software TK-Suite of the Telephone System.

In the evening when I return home I list and look through all calls and notes via the resubmission feature on the PC and return calls or prepare quotations. I also see appointments for the next day at a glance. This way I don't miss a thing and my customers are happy with their Painter & Decorator, who is not only up to date with modern designs.



Following AGFEO products were used:

- 1 ISDN System AS 35 (► Page 22) including TK-Suite Professional Software as standard
- 1 System Phone ST 31
- 1 System Phone ST 40
- 1 Analogue DECT 20
- 3 Analogue Phones T 15



Applied features for the above example:

Communication Software Pack: TK-Suite Professional Appointment Scheduler

Typical Example: Advertising Agency

We just secured an advertising campaign for champagne. This means that a lot of creative work has to be done. As sometimes you'll need to think in peace and quiet about lively texts and layouts you occasionally have to stop interrupting telephone calls.

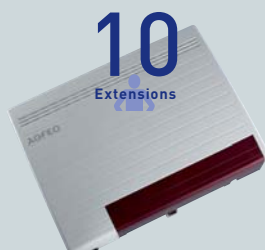
TK-Suite Chat

Thanks to our colleague Victoria at reception and our telephone system with the intelligent AGFEO System Phone it is no problem to arrange for piece and quiet in the departments Text and Graphic. All incoming calls are simply diverted to the switchboard and are answered by Victoria in her charming manner. She notes any important messages for members of the team, using TK-Suite software on the PC and forwards these via the reminder function silently to the relevant person. With such advanced telecommunication features nothing can stand in the way to successfully design advertising campaigns and popping the corks.



Following AGFEO products were used:

- 1 ISDN Telephone System AS 181 plus (► Page 12) including TK-Suite Professional Software as standard
- 1 System Phone ST 21
- 2 Analogue DECT 20
- 2 Analogue Phones T 15



Applied features

for the above example:

Communication Software Pack:

TK-Suite Professional

Function "Chat"

AGFEO Caller ID – see who is calling



Typical Example: Hotel

AGFEO Software TK-Suite Hotel Client

Our hotel is close to the exhibition centre, that is why most of our guests are exclusively international business people who stay for one or two nights at the most. This diversity of guests demands a multitude of organisation talent and a lot of discipline of myself and my staff at the reception in our daily workload, so that everything runs smoothly.

"Which room has already been cleaned, which has been prepared for a new guest and at what time did Monsieur Clermont wanted to receive his wake up call?" These questions are answered recently by our Hotel Software which is running via our AGFEO Telephone System, which had been especially developed for the hotel trade. This we noticed, every day, as with this application many tasks are handled a lot easier and more professional.

All our rooms have a telephone in them and guests can make calls world wide – but the control over the arisen cost stays with us, as a credit limit is set for each room on arrival. Therefore our guests will not receive any unpleasant surprises when paying the bill. Even the wake up calls of our guest can be easily managed with this Software.

A unique feature also is that we can play an individual "Good Morning" greeting to every room phone, for example "Bonjour" for Monsieur Clermont. Another organisational aid is that we are always informed of the relevant room status. The Software will also indicate via different symbols if a room has been cleaned and is ready for occupation again. Our cleaners just dial a special number sequence from each room phone to indicate the relevant status. Therefore, thanks to modern telecommunications technology we got a constant eye on our 44 bedrooms and are always one step ahead of our guests. This will be rewarded as our guests will check in again at the next forthcoming exhibition.

Following AGFEO products were used:

- 2 ISDN System AS 45 (► Page 26) with TK-Suite Hotel Client and relevant modules
- AIS (Audio Information System) with Auto Attendant on Board
- 2 System Phones ST 40
- 2 STE 40
- 44 Analogue Phones T 10
- 5 T-Modules 508
- 2 SO-Modules 540

Applied features for the above example:

Audio Information System
with Auto Attendant
TK-Suite Hotel Client



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Typical Example: Car Dealer

For years my car dealership is a well known address for collectors and car enthusiasts alike. Even though I am a fan and specialist when it comes to the old „nuts and bolt“ technology of my vintage cars, I also on the other hand have a soft spot for modern digital technology. Especially if this saves time and money in business life. That's why the AGFEO Telephone System AS 43 convinced me with all the useful features it offers.

AIS/Auto Attendant

Incoming calls will be professionally answered by the AGFEO built in Auto Attendant feature which offers my customers the ability to connect themselves via an announced menu (for example: „Press 1 for“) to the required department like Service or Sales. The Audio Information System will give information about special offers and opening hours whilst callers are being transferred on hold.

Paging and Security Line

With this system you can do much more than only making telephone calls. For example to page and make an announcement to a motor mechanic in the workshop. I also was thrilled about the idea to give cordless DECT System Phones to my sales staff so that they are always reachable. Even the protection of the showroom is possible with this telephone system by signalling an alarm.

Customers are also delighted, as we are able to demonstrate a high level of competence, with the customer orientated telephone processing, contactability of staff or in the reliable planning of service appointments, which is also done at the same time via the system software.

Technical fascination has so many different faces but I trust that my customers are coming to me for the love of motor cars, and that my team and I will be able to bring back to life many more vintage cars.

Following AGFEO products were used:

- 1 ISDN System AS 43 (► Page 24) with TK-Suite Professional as standard and relevant modules
- 1 AIS (Audio Information System) with Auto Attendant on Board
- 1 DECT S0 Base plus
- 2 System Phones ST 31
- 3 DECT 45 Cordless System Phones
- 2 Analogue Phones T 10
- 1 WAC
- Various Wireless Alarm Detectors
- 1 K-Module 524/1 K-Module 544
- 1 SO-Module 540



Applied features for the above example:

Audio Information System with Auto Attendant
DECT application
Communications Pack TK-Suite Professional
Home Automation/Security Line



58 Typical Example: Veterinary Surgery

I love animals more than anything and from an early age did know that I would one day work with animals in my profession. I now started my apprentice as veterinary assistant six weeks ago at our vet surgery and find every day exciting as there is always a lot to do. Our clients with their four legged friends are already waiting at the door very early in the morning and the phone never stops ringing all day long.

AIS including Auto Attendant

But thanks to our modern Telephone System my colleagues and I have everything under control. Each incoming call will be greeted by the telephone system with a stored message and then put on hold. This is a great idea, whilst callers are on hold they receive up to date information on changes of opening hours, holiday cover or services of associated veterinary surgeries. Even animals need an operation at some time.

TK-Suite Data Base

The call is put through to us as soon as the switchboard becomes free again, details of the caller such as telephone number and all associated data is displayed at the same time on our PC: This means that we are able to greet Mrs. Smith by name and know that the pet is a bird called Sam. The appointment allocation is also running at the same time via telephone system software and will be stored on the PC.

AIS/Auto Attendant/Speaker

Should the caller have a question for the vet, then we will connect him straight away. Because he can be contacted anytime with his cordless phone. To avoid running back and forth between the reception and the waiting room we are calling clients to the treatment room directly from our telephone extension via the speaker output of the telephone system. With so many time saving features I now can attend to calm our little patients, as some of them are not to happy to visit the surgery.



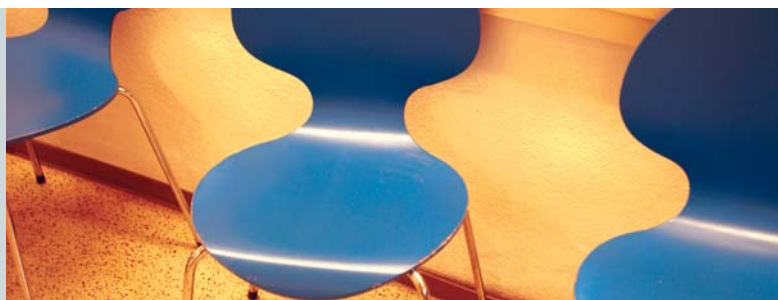
Night Service

We also operate an emergency service for out of surgery hours. The door phone of the surgery is diverted to the apartment of the vet or his mobile phone. Now he can be contacted in case of any emergency. The surgery is also protected by the telephone system and he will be notified as soon as an alarm is triggered. Every day the surgery team is enjoying all the benefits of the telephone system and our clients are also impressed with the extra features. All the additional functions and features guarantee a smooth day to day running of the surgery.

Following AGFEO products were used:

- 1 ISDN System AS 43 (► Page 24) including TK-Suite Professional Software as standard and relevant modules
- 1 AIS (Audio Information System) with Auto Attendant on Board
- 1 DECT S0 Base plus
- 1 System Phone ST 40
- 1 DECT 50 Cordless System Phone
- 3 Analogue Phones T 15
- 1 S0-Module 540
- 1 Door Phone TFE 2
- 1 K-Module 544
- 1 T-Module 508

22
Extensions



Applied features for the above example:
 Communication Software Pack: TK-Suite Professional
 DECT Application
 Door Phone with diversion feature
 Night Service
 Audio Information System



Typical Example: Forwarding Company

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My company has 70 heavy goods vehicles which are on the road world wide. This requires flexibility, organisational talent and team work from all members of staff. Only then and if everybody is kept up-to-date our team can work hand in hand to avoid empty loading spaces.

Our modular AGFEO AS 45 Telephone System is here very useful. Each controller has a phone with DDI, an e-mail address and an individual fax number.

Voice over IP and CTI

A connected internet telephone adapter allows them to communicate world wide with each other via the internet. The incoming information, accessible to everybody, is via the Telephone System Software TK-Suite Professional. The address and appointment scheduler is no problem with this software and no member of staff would now do without the very useful PC telephony (CTI).

Some things do have to be discussed with the driver directly after he returns to our yard from his consignment. I specially purchased DECT Cordless System Phones and upgraded the system with a DECT S0 Base plus. Now employees can also be contacted if they are away from their desk for any length of time. My employees do think that I never knock off work, but it is not as bad as it seems. Of course I would like to be informed on important issues, even when I am at home. The sensational new development of AGFEO offered here a perfect solution. I have had the smaller AS 43 modular system installed at home. Both systems (AS 45 and AS 43) had been fitted with a LAN Module. This LAN Module enables me to communicate with the office, for voice and data traffic, via the internet. Calls to and from the office are like an extension call and therefore do not incur any call charges. In addition I am, at the same time, connected to the computer network and have access to all data from home. Maybe some day I will finish work early to surprise my employees.



40
Extensions



Following AGFEO products were used:

- 1 ISDN System AS 45 (► Page 26) including TK-Suite Professional Software as standard and relevant modules
- 1 DECT S0 Base plus
- 2 S0-Modules 540
- 1 LAN-Module 510
- 2 System Phones ST 40
- 1 STE 40 System Phone Console
- 2 DECT 50 Cordless System Phones
- 10 Analogue Phones T 15
- 2 T-Module 508

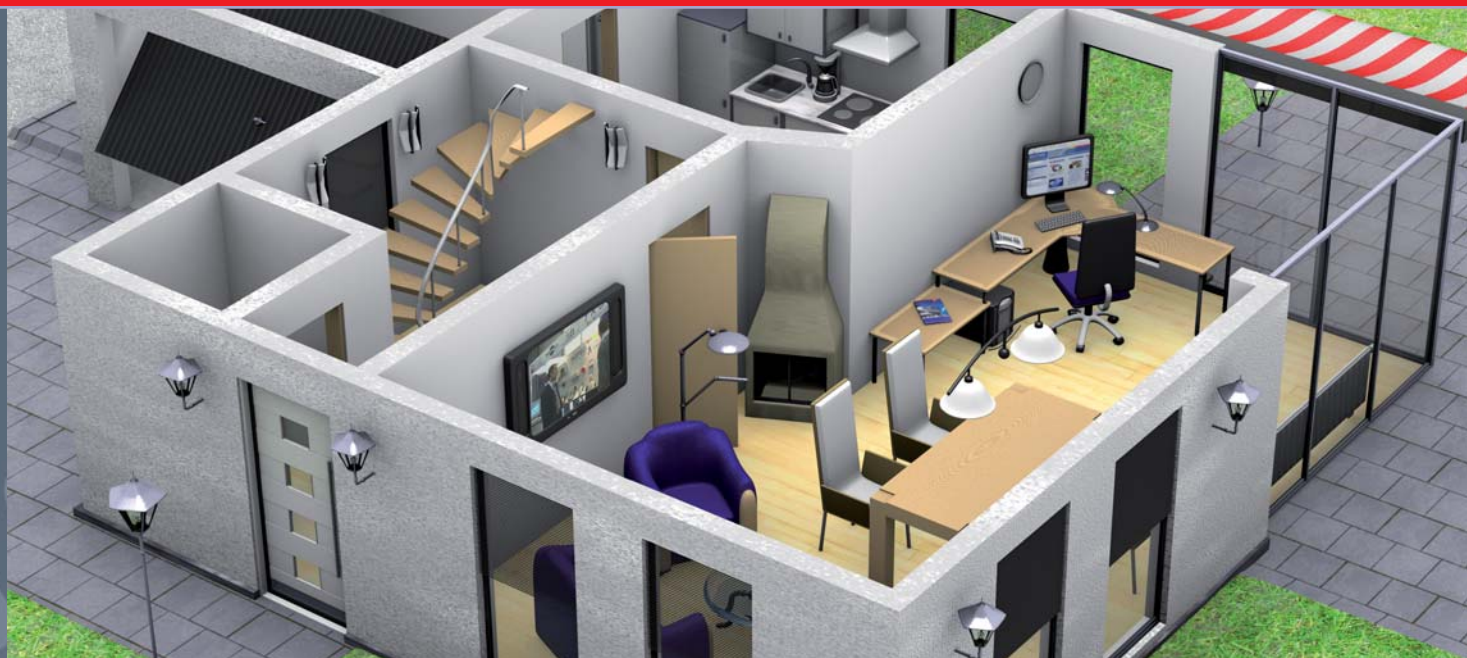
22
Extensions



- 1 ISDN System AS 43 (► Page 24) including TK-Suite Professional Software as standard and relevant modules
- 1 LAN-Module 510
- 1 DECT S0 Base plus
- 1 DECT 45 Cordless System Phone
- 2 Analogue Phones DECT 20
- 1 T-Module 508
- 1 S0-Module 540

Applied features for the above example:

Voice over IP
Internet Telephony
DECT Application
Communication Software Pack:
TK-Suite Professional



What is Home Automation?

Home Automation is the control of electrical operated devices such as

- Lights
- Blinds
- Heating
- Windows
- Garage Door etc.

these may be operated via Wall Switches, Telephones, Timing Devices, PDA and PC.

The whole purpose of home automation is to make life easier for people, to give them more freedom, save energy and increase security.

AGFEO offers 3 Options

1 via the **Wireless Alarm Controller (WAC)**

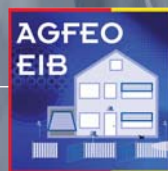
- Switching of electrical devices
- Connection of up to 48 Wireless Sensors

Remote Operation

A radio remote control and various telephones are used to operate all essential functions of the AGFEO Security Line.

Security & Control Applications

- Motion Detectors
- Acoustic Glass Break Detectors
- Door Contacts
- Alarm Sirens
- Radio Controlled On/Off Switches



2 via the **EIB-Module 522**

- Switching of electrical devices via Wall Switches, Telephones, PDA, PC and Time Clocks
- Due to a universal European standard nearly every thinkable home automation process is possible



3 via **Wireless Alarm Controller WAC/EIB**

- Switching and controlling of electrical devices in connection with the GIRA Home Server 2 and higher
- Due to a universal European standard nearly every thinkable home automation process is possible

A combination of Module and Wireless Applications is possible.

AGFEO Home Automation

1

Wireless Alarm Controller (WAC)



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Up to 24 wireless detectors can be connected without any wires to an AGFEO Telephone System.

The time consuming laying of cables throughout the house is no longer necessary. The wireless sensors/switches are simply registered to the ISDN Telephone System. The system will receive the signals from the different sensors and components and processes them accordingly.

The Audio Information System can deliver a spoken message once the alarm has been triggered to an internal extension or an external telephone number if so required. In addition the system can switch various electrical devices at pre-set times on or off via the wireless switches.

Other messages such as the defrosting of the freezer can also be signalled via the wireless contact to the telephone system for the appropriate action.

An optional available remote control will allow the switching of various functions, like to arm or partly disarm the security installation. A panic alarm can also be triggered from the remote unit.

The wireless alarm technology is based on a tried and proven system already used in much larger installations. Thanks to the technical expertise of AGFEO this type of technology is now available to be connected to the telephone system which offers all-round security applications. All wireless detectors can be switched from any telephone.







Home Security

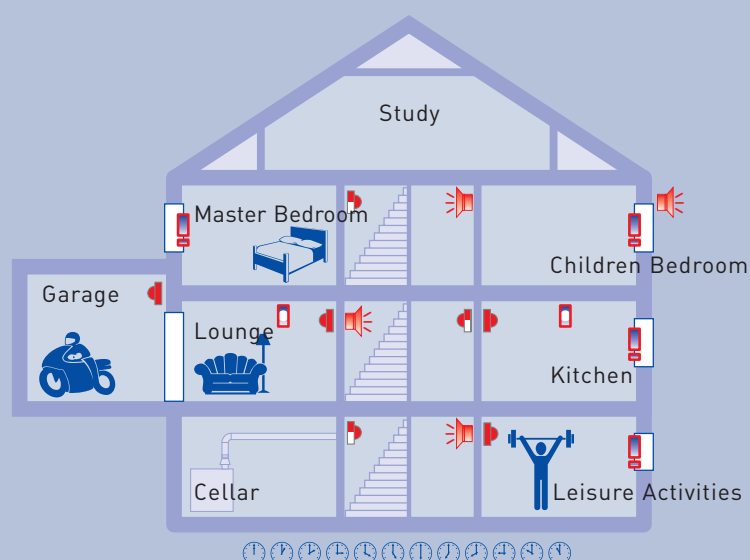


Possible Security & Monitoring Application: Burglar Alarm

 Minimum Requirement

Suggested Detectors:

-  Motion Detector
-  Glass Break Detector
-  Magnetic Contact
-  Siren



62 AGFEO Home Automation

Remote Control

The remote control is used to operate all essential functions of the AGFEO Security Line concept without any restriction. Due to its size and weight it will fit in any pocket or key ring. Ideal for residents who have not got a mobile phone and to give part or full access to the Wireless Alarm Controller.

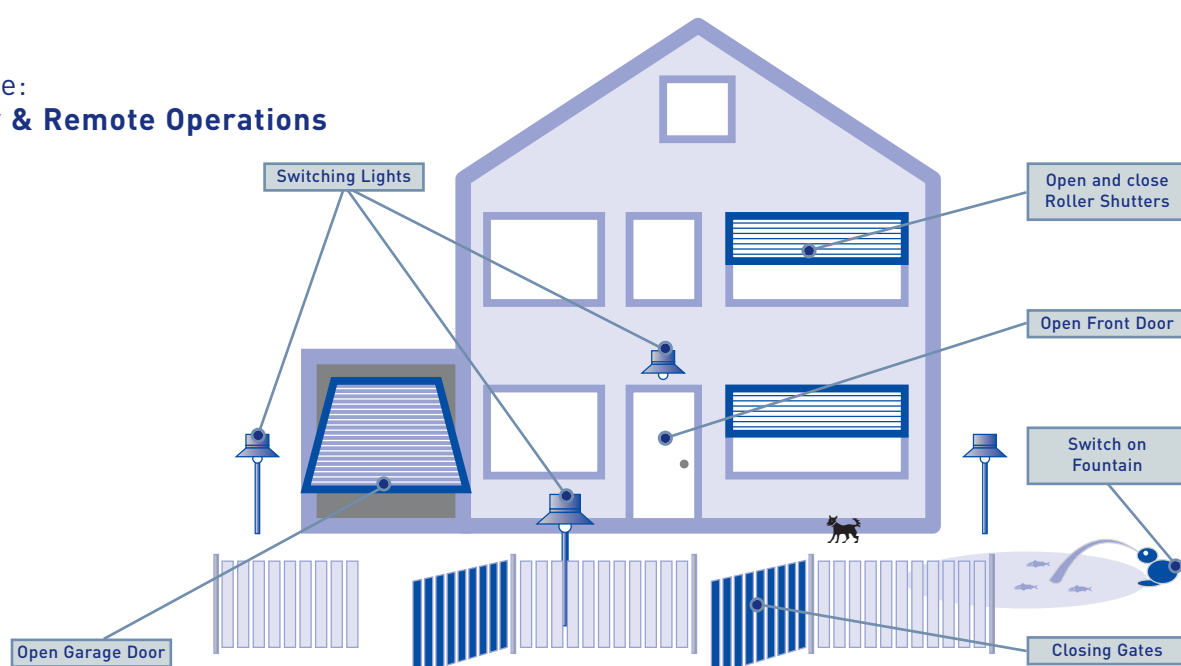


It can set a whole installation or only operate a single device only, such as switching on the lights, opening the door. It also has a panic button, useful for the needy resident.




Home Security

Typical Example: Home Security & Remote Operations




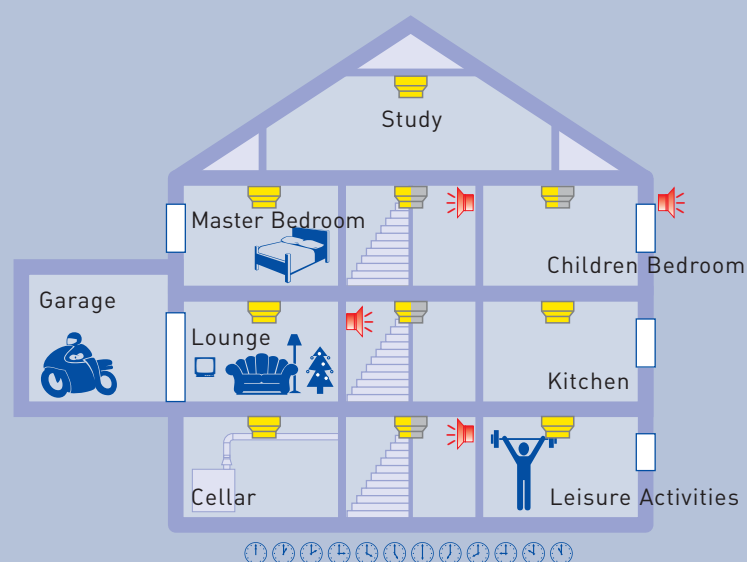
Possible Security & Monitoring Application: Fire Security

 Minimum Requirement

Suggested Detectors:

 Smoke Detector

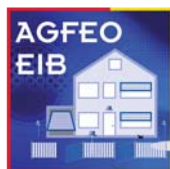
 Siren



2

AGFEO Home Automation

EIB-Module 522



Home Automation



KNX/EIB is a standard used for Home Automation

Due to the standardisation of the control network and the creation of a uniform protocol plus the wide range of offered actuators and sensors any thinkable applications in the home automation is by now possible.

Controlling and Monitoring with the Telephone System

The AGFEO Telephone Systems **AS 43**, **AS 45** and **AS 200 IT**, when fitted with the EIB-Module 522, are the first telephone systems world wide available with EIB connectivity.

The **AS 181 plus EIB** Telephone System has the EIB-Module 522 already included on the motherboard. The EIB-Module 522 will enable all connected phones, either cordless or corded, to control an EIB installation. AGFEO System Phones are particular suited for the control and visualisation within in an EIB installation.

Functionality of the Telephone System within EIB

The AGFEO Telephone System with an EIB-Module 522 is complementing or replacing the following functional units within an EIB system:

- Buttons/Sensor for example for Roller Shutters
- Light Switches
- Scene Administration
- Timer
- Remote Control Functions
- Time Server

Remote Maintenance

With the use of an AGFEO Telephone System, every EIB installation can be remotely maintained, which will save the customer time and money for simple modifications.



Added Comfort Feeling due to programmable Scenes

Just imagine, your are arriving home, it's already dark. You are pleased as not to get out of the car in this cold weather as you can open the garage door via the phone. You simply drive into the garage and get out of the car. The garage door closes automatically and the outside lights are switched on by itself so you won't trip on the way to the front door. The hall lights are switched on automatically. Whilst your coat is disappearing in the wardrobe you take the AGFEO DECT System Phone out of the charging cradle and go into the lounge to settle down on the big comfortable sofa. Using the DECT System Phone you now activate the scene "Television". The ceiling light goes off and the lamp next to the TV dims down to a comfortable level.



The EIB-Module 522 will administrate 32 objects and 32 scenes with up to 16 group addresses per scene and up to 16 events

Added convenience via programmable events

You leave home and, as usual, lock the door behind you. Locking the door will automatically switch on your answering machine.

AGFEO Telephone Systems with Module Expansion Slots for connection to Home Automation and -Security

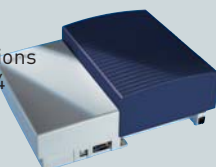
AS 181 plus EIB

10 Extensions
► Page 14



AS 43

22 Extensions
► Page 24



AS 45

40/80 Extensions
► Page 26



AS 200 IT

40/80 Extensions
► Page 28



64 AGFEO Home Automation

Wireless Alarm Controller WAC/EIB



3

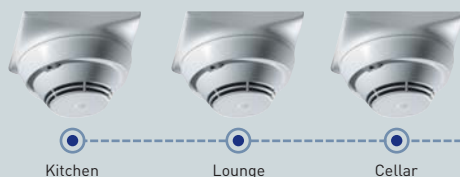
The Wireless Alarm Controller/EIB offers not only the connection of AGFEO wireless sensors but also in addition will give a bi-directional link to the EIB GIRA Home Server 2 (from Version 2.1).

Therefore, all functions which are available within your EIB installation, will also be available to control via the AGFEO Telephone System. Just program a function button with the command "Lights On/Off" or "Open / Close Blinds", you now can operate these functions easily from your System Phone.

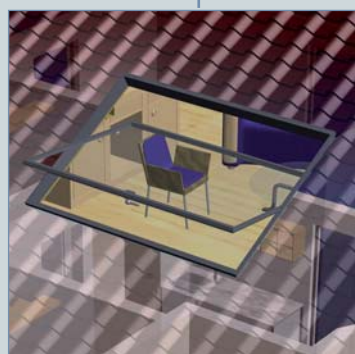
Note: Connect your Telephone System to an Uninterrupted Power Supply (UPS) to ensure that the system answers even on a power cut.



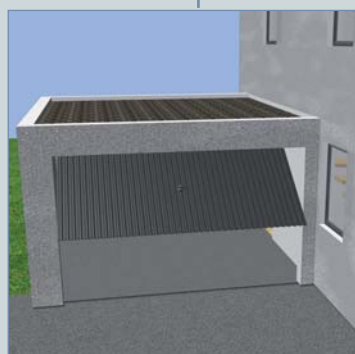
WAC/EIB



Home Automation – Wireless and EIB with EIB GIRA Home Server 2



Example: Close Window



Example: Open Garage



Example: Close/Open Roller Shutters



Example: Control Kitchen Appliances

Security Line Wireless Detectors and Switches: Components Overview

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	Dimensions	Weight	Temperature	Frequency	Battery	Location	
Wireless Alarm Controller (WAC)	182 x 141 x 36 mm	1.000 g	+ 5 to 40° C	868,3 MHz	Plug In PSU	Inside	
Wireless Alarm Controller WAC/EIB	182 x 141 x 36 mm	1.000 g	+ 5 to 40° C	868,3 MHz	Plug In PSU	Inside	
Motion Detector	155 x 68 x 58 mm	230 g	-10 to 55° C	868,3 MHz	AA 3 x 1,5 V	Inside	
Acoustic Glass Break Detector	126 x 68 x 58 mm	200 g	-10 to 55° C	868,3 MHz	AA 3 x 1,5 V	Inside	
Door Contact	126 x 68 x 58 mm	200 g	-10 to 55° C	868,3 MHz	AA 3 x 1,5 V	Inside	
Alarm Siren (Inside)	126 x 68 x 58 mm	180 g	-10 to 55° C	868,3 MHz	AA 3 x 1,5 V	Inside	
Alarm Siren (Outside)	323 x 204 x 97 mm	2.900 g	-10 to 55° C	868,3 MHz	LR20 4x 1,5 V	Outside	
On/Off Switch	126 x 68 x 58 mm	190 g	-10 to 55° C	868,3 MHz	AA 3 x 1,5 V	Inside	
Remote Control	40 x 83 x 0,7 mm	20 g	-10 to 55° C	868,3 MHz	CR2032 1x 3 V	Inside	

FAQ: Security Line

Typical Misinterpretation

■ „I have got 10 minutes to leave the house when on fire“

Incorrect! Statistically you have got 4 minutes to get out of the house. But what is the use if smoke inhalation could kill you in 2 minutes. Add to that stress, fear and poor visibility in heavy smoke.

■ „I’m sure our neighbours will pay also attention as we have a very good relationship with them and in any case our dog is very alert“

This is a dangerous assumption, if you only have 2 minutes to check rooms – especially at night and if your neighbour is also asleep, and your dog may not be in the same room.

■ „Nothing can happen to us, we always extinguish all candles before going to bed“

Wrong! Electrical defects are more often the cause of fires. Arson in cellars or hall ways and fires at neighbouring apartments could endanger you without any fault of your own.

■ „Our house is built with bricks and won’t burn“

Solid stone built houses won’t burn, that’s right. But the curtains, the wall paper or 100g foam filling out of your couch will be enough to cause death by smoke inhalation.

■ „Good smoke detectors are to expensive!“

A technical good smoke detector – and with this we mean not the ones which are hardly more expensive than a packet of cigarettes – is the best prevention of fires in the own home. Every day people are dying in fires. Or how much is your life and the life of your children worth?

Questions about the Security Line

■ How does the wireless AGFEO Alarm System work?

In this system each detector (Smoke Detector, Door Contact etc.) has a receiver and transmitter. A detector is not only transmitting its own alarm, but also receives the status of other detectors. Each detector is trying to communicate directly with the WAC. Should this be outside the range, then the detector is searching for another detector within its own range to transmit its message via this detector to the WAC and back.

■ Will it be possible to use more than one AGFEO Alarm System, independently from each other, within the same building?

Yes! It may be possible to have several AGFEO Telephone Systems within the same building, therefore this eventuality has been considered.

■ What is the maximum possible range between two detectors?

In line of sight the range will be approx. 150 – 180 metres. This range will be reduced if concrete walls or ceilings are in between. Within a building the range is very much depending on the structure of the building. However, the rule of thumb is that the radio signal should be able to go through one concrete ceiling or two walls, in a “standard” building.

■ How long will it take until a fault will be recognised by the WAC (Self Monitoring Cycle)?

The monitoring cycle is set in the configuration tool and transmitted to each detector. The default setting for this cycle is set to 2 hours (EN-Standard). This means that each detector has to send a signal once in every two hours. If this signal is not received, then a fault will be indicated.

■ Can an AGFEO Detector be used as an amplifier or router if the destination it is trying to reach is out of range?

Yes. Each detector is also a router and amplifier. Therefore, the detectors should be sited in such a way that it also can reach the WAC via another detector.

■ What happens if suddenly there is a strong radio interference from outside?

During transmission the detectors are checking for any interference within the frequency range used. Should the interference be strong enough to impair the transmission, then another way to the WAC will be established automatically. If it should not be possible to find a way free of interference, then a fault will be indicated.

■ How long is the battery life?

The battery life is depending on how many messages are transmitted. The average life span is between three and five years. The life span will be further reduced if a lot of transmissions are happening, such as a door contact of a shop door, or if a detector is being used as a router for other detectors. An empty battery warning will be transmitted approximately 3 month before the battery is exhausted.

■ How can I test the function of a detector?

Within the configuration tool a walk test can be activated. Every detector is immediately set to armed, however no alarm will be transmitted to the outside.

■ Why do I have to wait for 10 second between a battery change?

If batteries are disconnected then the detector, for security reasons, will be powered by a capacitor for a limited period. The waiting time of 10 second is to ensure that the detector has no residual power left. If this time is not adhered to, then it may be possible for the detector to malfunction.

■ Do detectors need to be reregistered after a power cut?

No! The system will automatically resume operation after power up.

■ Why is it that a function which has been activated from the remote control or telephone is performed a few seconds later?

A delay may occur if the signal has to travel via various detectors to reach the WAC or external influences may obstruct the signal.

66 Signals “unwanted” visitors to your phone

Motion Detector


The AGFEO passive infra red detector will receive infra red radiation from the surrounding area and stores this as a reference. If a person enters the area covered by the detector, then this will detect a change in the infra red radiation and will activate the alarm.

Due to the wide angle fresnel lens with a detection area of 90 degree and an adjustable sensitivity range from 12 to 18 metres there is nothing what it will easily miss. Slow changes are automatically compensated for and will give no false alarm. The detector is suitable for corner installation.



Technical Data

Dimension:
155 x 68 x 58 mm
Weight:
230 g
Temperature Range:
-10 to +55° C
Frequency:
868,3 MHz
Battery operated:
AA 3 x 1,5 V
Siting:
Indoors (IP44)
Approved:
CE conformity

 Standard Radio Module Required



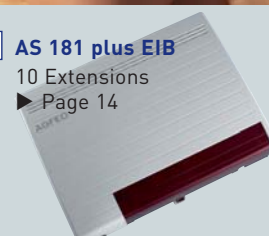
AGFEO Telephone Systems suitable for connection to home automation and –security

☐ **TK•HomeServer**
10 Extensions
► Page 16

☐ **AS 151 plus/AS 181 plus**
6/10 Extensions
► Page 12

☐ **AS 281 All-In-One**
10 Extensions
► Page 18

☐ **AS 181 plus EIB**
10 Extensions
► Page 14





Technical Data

Dimension:
126 x 68 x 58 mm
Weight:
200 g
Temperature Range:
-10 to +55° C
Frequency:
868,3 MHz
Battery operated:
AA 3 x 1,5 V
Siting:
Indoors (IP3x min.)

⚠ Standard Radio Module
Required



Technical Data

Dimension:
126 x 68 x 58 mm
Weight:
200 g
Temperature Range:
-10 to +55° C
Frequency:
868,3 MHz
Battery operated:
AA 3 x 1,5 V
Siting:
Indoors (IP3x min.)

⚠ Standard Radio Module
Required

Signals „uninvited guest“
also to your mobile phone

67

Glass Break Detector

The acoustic glass break detector does not need to be glued onto the window pane. It just needs to be installed in the same room where the windows are going to be protected. The detector is analysing the distinctive sound which occurs when breaking a window. This is an advantage where large windows or a number of windows are needing to be protected.

False alarms are eliminated as the unit not only registers the breaking of glass but also the shock wave frequency which occurs if a window is smashed.

The AGFEO Glass Break Detector can remain on guard even when you are at home as it will not react to dropped glasses or similar items. It can also alert you on your mobile phone.

Guards against intruders

Door Contact

The door contact is working on a magnetic principle. A magnetic strip is fixed to the object to be guarded, opposite of which a detector with three magnetic sensitive contacts, for various fitting positions, is placed.

If the magnetic strip is moved more than 1 cm from the sensor, then the alarm will be triggered immediately. The alarm may be notified to any telephones available.

AS 35 All-In-One

16 Extensions
► Page 20

AS 35

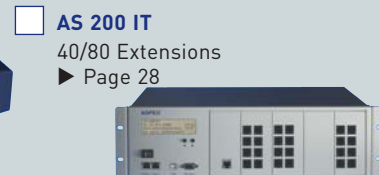
18 Extensions
► Page 22

AS 43/AS 45

22/40 Extensions
► Page 24/26

AS 200 IT

40/80 Extensions
► Page 28



68 Example: Switching of Outside Lights

AGFEO ON/OFF Switch

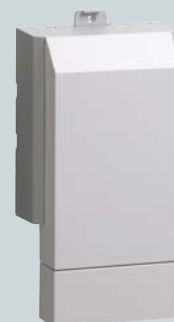
Clever placed light sources in the garden will let you enjoy the garden at the long evenings of the year, but also, light can offer security around the home – helping not to trip over things and not attracting burglars.

Light protects! Light can keep “none desirables” away from your home. Remember: Well illuminated grounds will deter potential burglars. The use of halogen lights and other outside lamps have shown to be very effective to pretend that someone is at home. The perpetrator could lose the oversight of the situation and cannot be sure if he could be seen.

In case you spend the evening away from home or are on holiday, then you should avoid none lit rooms. A light which will be switched on at random intervals will confuse potential burglars.


If you are away from home, the timer functions of the AGFEO Telephone Systems, which have been approved for use with the Security Line, can switch any lights on or off at will. Everywhere where the installation of additional cables for light switches could be difficult, or the Telephone System alone is not adequate enough to control numerous light sources, is where the wireless On/Off Switch can successfully be used.

You may also connect electrical roller shutters, if applicable. In addition time controlled functions can be operated remotely from any telephone including mobile phone. The access of these can be PIN protected. Also, none security relevant functions may be operated, such as the opening and closing of the garage door. Therefore, the various different remote control units may now be a thing of the past.



Technical Data


Dimension:
126 x 68 x 58 mm
Weight:
190 g
Temperature Range:
-10 to +55° C
Frequency:
868,3 MHz
Battery operated:
AA 3 x 1,5 V
Switching Capacity:
40 V DC max. 1A, 30 W
Siting:
Indoors (IP3x min.)

 Standard Radio Module Required


AGFEO Telephone Systems suitable for connection to home automation and -security

 **TK•HomeServer**
10 Extensions
► Page 16



 **AS 151 plus/AS 181 plus**
6/10 Extensions
► Page 12



 **AS 281 All-In-One**
10 Extensions
► Page 18



 **AS 181 plus EIB**
10 Extensions
► Page 14





Door Opener: A radio signal opens doors

Sometimes this will happen to everyone of us.
„I am outside my own front door again and the key is in the lock from the inside. What do I do? Break a window or call a lock smith?“

„This is annoying - I've should have selected the AGFEO Telephone System in the first instance. The door could have been simply opened via any telephone and a number only known to me.“

Freezer: Monitors for power cuts to limit spoilage

„ We had a fantastic fortnight in Spain! Just returned home. We can hear some kind of warning tone. The freezer is indicating loudly that the temperature is to high. Can we eat the defrosted food? It's far to much! Quick, invite all friends to a meal – to dangerous, all the nice food is thrown away. How much did that cost?“

Instant notification to any telephone possible!

Washing Machine: Notifies the end of the wash program

„I'm now going for a second time into the cellar and hope that this time the washing machine has finished. Oh dear, it's still washing. I'm waiting! The washing machine of my neighbour has just finished and I am hearing Mrs. Dale coming down the stairs. How does she know that the washing machine has finished? It must be a coincidence, I just ask her. Her telephone is notifying her that the machine has finished.“

Instant notification to any telephone possible!

Aquarium: Nice hobby but not without any risks

Does the filter pump the water back into the aquarium or straight into the room? Loose hose connections are not unknown and having a float level switch can avoid further damage. Not to mention the poor fishes being without water. In any case water damage to furnishings and below lying rooms could be quite substantial.

Instant notification to any telephone possible!



AS 35 All-In-One
16 Extensions
► Page 20



AS 35
18 Extensions
► Page 22



AS 43/AS 45
22/40 Extensions
► Page 24/26



AS 200 IT
40/80 Extensions
► Page 28

70 Warns you inside the home

Alarm Siren Indoor

The indoor siren is mainly for your safety i. e. in case of a fire alarm. It is not there to warn off intruders who may when fleeing cause in their panic even more damage.

Every available detector (i. e. Smoke Detector, Motion Detector) can not only route the alarm to any telephone but also to the alarm siren for added safety.



Technical Data

Dimension:
126 x 58 x 68 mm
Weight:
180 g
Temperature Range:
-10 to +55° C
Frequency:
868,3 MHz
Battery operated:
AA 3 x 1,5 V
Siting:
Indoors (IP44)
Volume:
100 db (3 mtr)

⚠ Standard Radio Module Required

Warns neighbours and authorities and fights off „none desirables“

Alarm Siren Outdoor

The outdoor siren is used to scare off burglars which may have opened or broken a window. It also will make the neighbourhood aware that you are visited by a burglar.

We would also like to suggest to trigger a silent alarm. Please consult your local security service or police.



Technical Data

Dimension:
323 x 240 x 97 mm
Weight:
2,9 kg
Temperature Range:
-10 to +55° C
Frequency:
868,3 MHz
Battery operated:
LR 20 4 x 1,5 V
Siting:
Outdoors (IP34)
Volume:
100 dB (3 mtr)



✓ Expert Advice!

The alarm and notification of the different detectors can be forwarded to any telephone including your mobile phone.

Operate the front door
from the telephone

Door Phones

AGFEO Door Phones can be connected to the analogue extension port of any telephone system. These units are available from one up to four bell push buttons and can be operated from any telephone extension including cordless telephones. Any of the telephone extensions may speak to a visitor at the door and even open the door at the push of a button. The name inserts for the bell push buttons are illuminated.

A bell transformer is required for the illumination of the bell push buttons as is for the operation of an electric door lock release mechanism. The door phones have been optimised to work with all AGFEO Telephone Systems.

- **AGFEO TFE 4** with name inserts for three and four buttons. 2 Relays. Available in White or Silver

- **AGFEO TFE 2** with name inserts for one or two buttons. Available in White or Silver. The door phone TFE 2 is for vertical or horizontal installation and may be flush or surface mounted. 2 Relays.

- **Bell Transformer**
Plug in Power Supply Unit.
Output Voltage 12 to 20 Volt AC.



✓ Expert Advice!

The connection of a door phone to an AGFEO Telephone System will make every telephone to a door bell. In addition every telephone (including mobile phones) can speak to visitors at the door and release the lock mechanism.



72 Communication via a data link or DSL

AGFEO System IP

The AGFEO System IP technology was specially developed for small businesses with branch offices. Due to this parts of an operation can easily and cost effective be connected from telephone system to telephone system or from telephone system to a telephone by using already existing DSL flat rate -, leased data line or wireless LAN connections. Even overseas branches can easily be connected, provided the infrastructure required is in place. Calls between head office and branch office will be free of charge, except for the line rentals of DSL- or leased lines. The combination of an AGFEO System IP and DSL flat rate will make the "standard" telephone line obsolete and subsequent call charges redundant.

Reoccurring telephone charges will greatly be reduced as the only cost incurred will be for line rental and or leased lines which are required anyway.

AGFEO System IP Products:

- LAN-MODULE 508
- LAN-MODULE 510
- AS 43
- AS 45
- AS 200 IT
- ST 40 IP

PC
ST 40 IP

See which extension is b
ASIP makes this possible



Router

Typical Example



Router optional



Making calls using ASIP!
The System Phone ST 40 IP is setting new standards in VoIP telephony. Further information can be found on [Page 44](#).



Router optional



ST 40
ST 31
ST 21

ST 40 IP

Note:

AGFEO is recommending the use of LANCOM routers for a secure VPN connection via the Internet.

Important Notice:

All AGFEO network solutions will have the **continued use of the fixed line telephone network without any limitations.**

The dimension of availability

AGFEO VOICE over IP

The AGFEO System is going far beyond the possibilities of IP based communications.

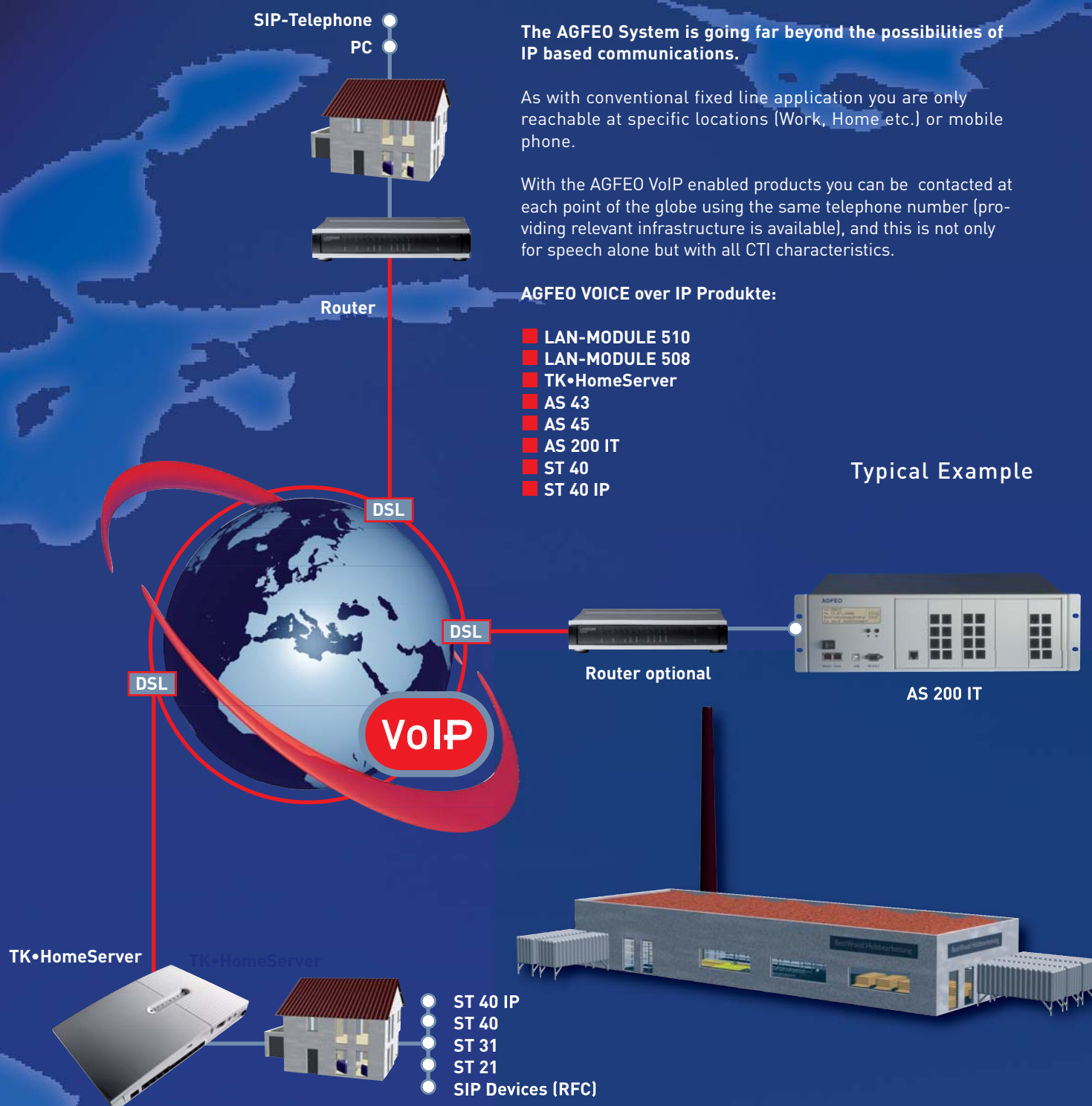
As with conventional fixed line application you are only reachable at specific locations (Work, Home etc.) or mobile phone.

With the AGFEO VoIP enabled products you can be contacted at each point of the globe using the same telephone number (providing relevant infrastructure is available), and this is not only for speech alone but with all CTI characteristics.

AGFEO VOICE over IP Produkte:

- LAN-MODULE 510
- LAN-MODULE 508
- TK•HomeServer
- AS 43
- AS 45
- AS 200 IT
- ST 40
- ST 40 IP

Typical Example



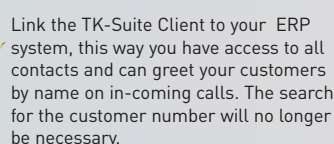
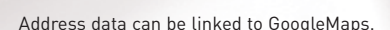
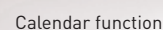
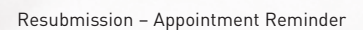


With the communication package TK-Suite Professional you receive an easy HTML-based access to all the important telephone system functions. The communication software TK-Suite Professional does include the following components:

- Reconciliation with Phone Book 2.0
- Multi Server Capable
- Programmable Chat Function
- Favourites
- Display „Do Not Disturb“
- Display „Call Waiting“ settings

■ TK-Suite Contact

Supported Languages:
Danish, Dutch, English, French, German, Hungarian,
Portuguese , Spanish





Computer Assisted Dialling

The TK-Suite Client will assist in the day to day task at your computer. Using the Client telephone numbers can be dialled directly from your computer without having to enter them first at the telephone. If the required number is reachable then the system phone will go automatically into handsfree mode or activate the headset. It's as easy as that, click onto the required telephone number and let TK-Suite do the rest.

Incoming Call Display

TK-Suite Client will indicate an incoming call via a pop-up window and display the callers details such as the telephone number of the caller, or name if this has been entered in the telephone book or contact database. Should a call history exist for the incoming call, then these can be viewed at an instance. Of course you can add new notes to each incoming call or add a telephone number to an existing contact or add a new contact.

Call Log and Redialling

Should you be away from your desk, that's no problem too. The call log will list all incoming and outgoing calls which can be called back with a simple mouse click.

Call Reminder

You can set a reminder function if the person you are calling is not available at the time. TK-Suite will automatically resubmit the details of the call at the scheduled time. This function can also be set for other users on the system.

Enhancement of the Calendar Function within TK-Suite Client

With entry for meeting start – and end time with automatic reminder function.

Internal Synchronisation between Client and Server of Contact- and Calendar Data

Data which has been altered on your laptop during a business trip will be synchronised automatically after connection to TK-Suite.

TK-Suite Client is "Always On", to display Telephone Settings

Changes to the telephone settings such as call filter or call diversion will be displayed in the client automatically and can also be send directly from the client to the phone.

Communication between Users

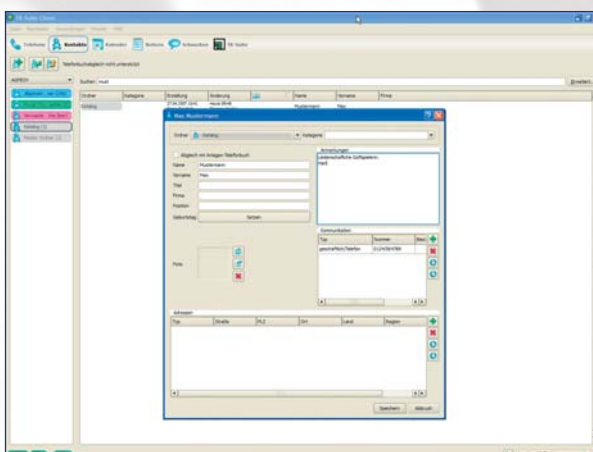
The „Chat“ function allows you to send a short message to another logged on user within the system. This is an ideal tool for the switchboard if urgent calls have to be connected and the user is on the phone. Just send a short message which will appear on the screen of the extension user.

Address- and Contact Management

TK-Suite Contact is, as the name suggests, a complete contact management system. You are able to add numerous telephone numbers, email - and postal addresses for each contact.

Busy Lamp Field and Single Button Dialling

The Busy Lamp Field (BLF) will indicate the status of selected extensions. Extensions which are free, busy or ringing will be displayed. In addition there is a single button dialling feature. Numbers which are frequently dialled can be displayed and accessed from here.



TK-Suite Contact



System Requirements

- Windows Vista (32bit) with at least 1 GB RAM with Internet Explorer from 6.0; Firefox 2.0 or higher.
- Windows XP with at least 512 MB RAM with Internet Explorer from 6.0; Firefox 2.0 or higher.
- Linux (glibc 2.2 based distributions) with Konquerro (KDE3.2) or Firefox 2.0 with at least 512 MB RAM.
- Mac OS X 10.4 with Safari 2.0 or higher min. 512 MB RAM.
- Linux- and Mac- connections with only one AGFEO Telephone System with RS 232 interface and system firmware from version 8.2.

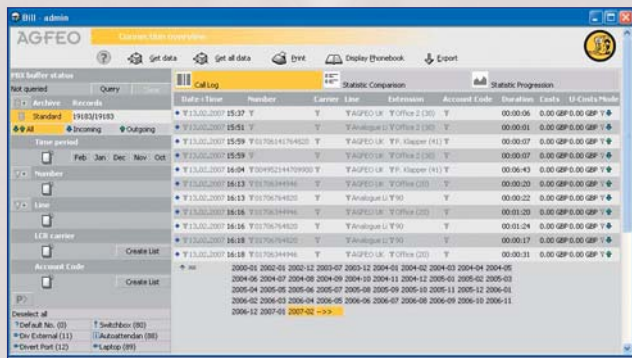


76 TK-Suite Bill

With TK-Suite Bill your call charges are also under control. All incoming and outgoing calls are logged and can be displayed in a variety of formats. External -, extension numbers and trunk line involved will automatically be substituted by the name as stored in the telephone system. This function will capture all data at a glance, quickly and uncomplicated.

In addition you can list calls which will match a user set search criteria, so that only essential information will be displayed.

Call records which are no longer required may be archived via the archive function. The archived data may be returned to the main data at any time if so required.



TK-Suite Bill

TK-Suite Set

With this application you have access to the system programming and can adjust settings to your own individual requirements. For example you can adjust acoustic settings of your phone such like ringer pitch and volume. You can also add telephone numbers to the phone book or edit features assigned to individual function buttons of each System Phone. It is also possible to print from here the function button designation strip for each system phone. Also in colour, of course. Amongst other functions are:

■ Day- Night Service

■ LCR Settings (Least-Cost-Routing)

■ Group Assignment

■ Extension Names and Numbers

■ World Clock

■ Timed Functions

Via the programming assistant the telephone system can be configured for the essential settings and can be up and running in no time.

You may assign different users within the computer network and allocate different levels of access. This may be used to restrict some users to have access to the call management system only, whilst others may change telephone numbers in the phone book or are able to program function buttons of the system phones.

TAPI Interface

(Telephony Applications Programming Interface)

All ongoing AGFEO systems offer a TAPI interface. Communications programs running under Windows 2000 and Windows XP can harness the power of AGFEO systems via this interface.



TK-Suite Set



Optional available software for

AGFEO TK-Suite Professional

With the new software pack individual adjustments may be carried out if so required. You decide which option has to be added to TK-Suite Professional.

Chargeable Options:

1. CTI plus package

- Switching of diversions
- Switching of relays on/off
- Switching of EIB objects
- Dialling from status display of a remote system
- Enable Do Not Disturb via client
- Enable / Disable Call Waiting via client
- Switching of sensors (arm/disarm)
- Dialling of external subscriber via an IoP/ASIP connected system of a second TK-Suite server.

2. Database package

- Automatic data reconciliation with MS-Outlook possible

- Connection of external databases via LDAP (i. e. Lotus Notes databases, open MS-Exchange folder via Meta Directory possible)
- Connection of external databases via ODBC (i. e. Excel)

3. Database Interface Pack for CRM Systems

Database Interface Package for CRM Systems
Database exchange and synchronisation between CRM systems and TK-Suite Professional with the condition that the database is MySQL or ODBC compatible. A database synchronisation is performed as soon as data of TK-Suite Professional or the connected database contents has changed. A script will now be called which was designed by yourself. Within the script environment you will have access to the TK-Suite Object- system. On changes within the TK-Suite data a list with modifications will be created. By processing this list you will be able to modify your database with SQL-commands.

Optional Software for the Hotel Industry

AGFEO TK-Suite Hotel Client



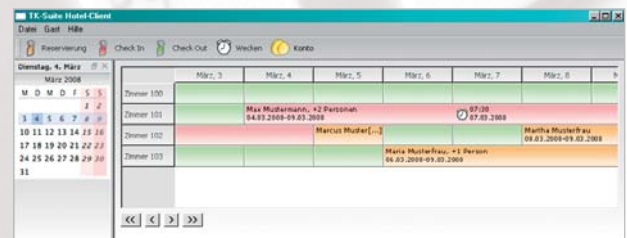
This optional software pack has been specifically developed for the Hotel Industry and AGFEO Telephone Systems.

- Call Costs Calculation with Credit Limit
- Wake Up Function
- Guest Room Status
- Reservation with Calendar
- Check In/Out
- Cost Evaluation
- Calendar Overview with occupied status of each room
- Credit Limit (incl. Time Limitation)
- Invoice Print
- Wake Up Call
- Room Status ie Cleaned
- Total Hotel Bill (incl. Room Rate, Minibar, other)

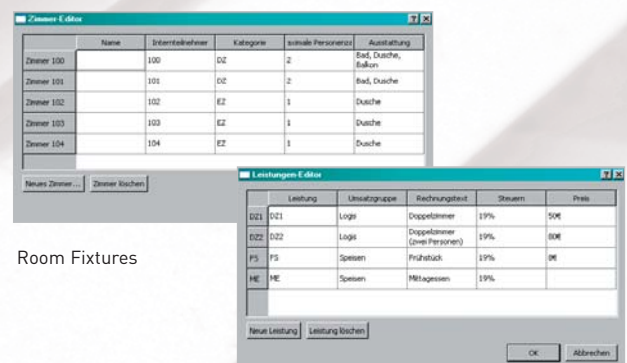
AGFEO Hotel Telephone Systems – there is more inside

Note:

The AGFEO TK-Suite Hotel Client is available in English or German only.



TK-Suite Hotel Client Overview



Room Fixtures

Services

Note:

AGFEO TK-Suite Hotel client was not available when going to press with this catalogue. Please ask your AGFEO partner.

A

Abbreviated Dialling

Certain abbreviated external numbers may be stored on a numeric button of an extension telephone.

Auto Dial (Hotline)

A pre-programmed telephone number will be dialled after the telephone receiver is picked up.

Automatic Exchange Line Seizure (Direct Line)

The exchange line will be connected to the extension as soon as the telephone receiver is picked up.

Automatic Redialling

Up to 10 redial attempts will be made if the number called is busy.

B

B-Channel

An ISDN BRI line has two speech channels (B-Channels) which can be used to transmit speech or data. The transmission speed for each channel is 64 kbit/s.

Barred Numbers

These are numbers which have been barred from being dialled by certain extensions. Programming of barred – or excepted numbers is carried out by using the programming tool.

Busy Tone on Busy

Available on all ISDN Systems. (normally no busy tone on ISDN)

C

Callback /Ringback when Free

A busy extension can automatically ringback as soon as it becomes free.

Call Barring

Call barring is a feature which restricts extensions from making external calls. There are different levels of call barring available: unrestricted access, national, local, internal or answer incoming calls only.

Call Charge Advise

Call charges will be made available as soon as the call has ended.

Call Charge Limit

Used to control call charges of extensions. Extensions are automatically barred once the limit has been reached.

Call Data

Will be stored in the system and managed within TK-Bill.

Call Deflection

Diversion of a call at a push of a button, even without answering the call.

Call Diversion

- Diversion of all calls to an extension or external number.
- Diversion to an external number will use a 2nd B channel within the system (Different to Call Forwarding which will not require a connection to the telephone system).
- Can also save money as Least Cost Routing is also utilised.

Caller ID

(--> see CLIP)

Call Forwarding (ISDN)

Divisions of incoming call via the public telephone exchange controlled by the telephone system.

Call Log (List all calls)

Lists incoming calls with number, name, date & time.

Call Management (Capture of Call Data)

- Software to control call cost which is part of TK-Suite Basic included as standard with every system software.
- Call data can be saved to a PC.

Call Park

To hold a call whilst at the same answering a second call.

Call Through

It is possible to make a call via your mobile phone through the telephone system to the fixed line telephone network. Charges for both connections may be cheaper than if dialled directly from the mobile network.

Call Tracing

Records the telephone number of a caller with a withheld telephone number. The identification will take only a few seconds and will be established during the call or immediately after the call.

Call Variant

(--> see Day- / Night Service)

Call Waiting/Reject Waiting Call

- Call waiting tone during a connection will signal a waiting caller.
- This function can be disabled at any time, caller will then hear a busy tone or may be routed to an answering machine.

CLIP (Caller ID)

Displays the incoming callers telephone number (requires an appropriate telephone).

CTI - Computer Telephone Integration

Operation of the telephone system via a PC. Latest systems have an interface which allows applications of third party products.

D

Day/Night Service

(Call Forwarding)

Incoming calls are set to ring different extensions during day or night time. Forwarding of calls may also be set.

DECT

Stands for Digital Enhanced Cordless Telephony, which is a standard used in cordless telephones.

DHSG

An industry standard to control cordless headsets.

Direct Call (Baby Call)

Dials a pre-programmed telephone number regardless of which digit has been pressed.

Door Phone Diversion to External Number

- Connection of a door phone to the telephone system.
- Quick redirection of doorphone call to another number, which may be a mobile- or international telephone number.

Download

(System Firmware Upgrade, also remotely)

Firmware upgrade via ISDN line without hardware intervention.

Do not Disturb (DND)

- Analogue Phone: Calls will no longer ring.
- System Phone: Calls will only be signalled visually.

DynDNS-Service

Dynamic Domain Name Server
- A service by which a PC can be found via the same IP address.

E**EIB**

European Installation Bus.
EIB was developed for the deployment in home automation (Dimming, Switching, Operating, Adjusting, Monitoring, Measuring, Signalling) and makes it possible to communicate with all electrical devices within a building.

Enquiry Call/Brokers Call

- Enquiry: hold an existing call and make an enquiry call to another extension.
- Caller on hold cannot overhear conversation.
- Reconnect to original caller on hold.
- Brokers Call: Talk to each line in turn without connecting them. (including exchange lines)

Exchange – or Trunk Line

A connection point of a telephone network provider to which an analogue telephone device may be connected (one speech path per line).

F**Firmware**

Used for the operation of the whole telephone system and associated components.

Follow me

Call diversion activated from the telephone which is going to receive diverted calls.

G**GAP**

Generic Access Profile, allows the communications of DECT telephones from various manufacturers. GAP Phones of 3rd party vendors might not support PBX specific features.

Global Call

Part of a DDI number which is going to be used as a main incoming line and is programmed to connect to the operator.

H**Hunt Group**

(→see Extension Numbers)

I**Internal UP0 Connection**

Instead of using 4 wires for an S0 Bus this type of connection required 2 wires only. Each UP0 port can connect one Digital System Phone.

ISDN BRI Line (External)

Connects the ISDN Telephone System to the public switched ISDN exchange.

Communications is via two B-Channels which can be used for speech and or data.

Available Options: MSN Line with multiple numbers (range depends on Country and carrier) or System Access with DDI numbers to relevant extensions.

ISDN BRI Line (Internal S0)

An internal MSN line for the connection of up to two AGFEO System Phones or up to eight ISDN devices. Calls between extensions/ devices within the telephone system are free of charge.

ISDN BRI Line

(System Access –Point to Point)
An ISDN line with DDI numbering. (Direct Dial In)

ISDN Call Parking

- Current call can be parked in the ISDN Telephone Exchange.
- Transfer of a call from an ISDN phone connected to a PTMP line to an extension of the system without ISDN connection.

L**LAN**

Local Area Network
Company – or Home Network

Connection of various computers for the exchange of data.

Least Cost Routing with Fallback

- Calls are routed via the lowest call cost provider.
- If Fallback is enabled, then the call may be routed via the next lowest call cost provider if the lines of the first provider are busy or not available.

M**MSN Line**

(Multiple Subscriber Numbering)

- A telephone system and other ISDN devices may be connected to such line.
- Network provider may supply independent MSN numbers.
- Individual allocation of MSN numbers.
- Allocation of an MSN number to multiple devices is possible. (see also ISDN BRI Line – System Access)

MSN Selection

Specific MSN line can be selected, may also be used for separate billing purposes.

Music on Hold

During call transfer the caller will hear Music on Hold.

N**Name Allocation for Extensions or MSN**

- One name each per extension.
- Each MSN can be allocated a name.
- System Phones will present the name in the display.

P**Paging**

System Phones have the ability to actively respond to a paging call. Paging to System Phones also possible from analogue phones.

Partial Rerouting

- Call diversion of a DDI number within the ISDN exchange
- Alternative a diversion may be set up via the 2nd B-Channel

Power via Ethernet

A process by which network capable devices can be supplied with power via the ethernet cable and therefore do not require a separate power cable.

Primary Rate Interface (PRI)

- also called ISDN 30 e
- used to connect Telephone Systems to the ISDN network
- offers 30 B channels and 1 D channel
- this type of connection covers longer distances to the digital telephone exchange

R**Relays**

- Programming of on/off or pulse function.
- Extension numbers may be allocated to relays, can also be used to switch bells and lights. May also be operated remotely.

Remote Access Functions

(-> see Call Diversion)
(-> see Switchbox)

Remote Diagnostic/Programming
(-> see Remote Maintenance)**Remote Maintenance**

Telephone System may be maintained remotely by qualified dealer. Systems offer a high level of security to guard against unauthorised remote access.

Reservation of an Exchange Line
(B-Channel)

An exchange line which is busy can be reserved by an extension. The extension will ring as soon as the line becomes free.

S**Sensor Contact**

An input, which if triggered is followed by an action, like ringing a bell or dialling a telephone number.

Software Control via S0 Bus

- Connection between System and PC.
- Telephone system can be controlled via the S0 Bus with an AGFEO software pack.

- Data transfer via internal S0 Bus is patented by AGFEO.

S0-Bus

(-> see ISDN Connection)

Status and Busy Lamp Field (BLF)

- Will display lines in use and activated features.
- Busy extensions can also be displayed.

Switchable ISDN BRI Line

Can be used either for Trunk Access or Internal Use to connect digital extensions depending on switch setting.

Switch Box

(see also Remote Access Functions, Call Forwarding, Call Diversion)
- Carries out instructions as given remotely. Any DTMF telephone is suitable as remote access device.
- Call is answered after 2 to 3 rings after which a PIN has to be entered.

T**TAPI Interface (Telephony Application Programming Interface)**

Interface to exchange data between telephone system and computer programs.

Telephone Lock/Access Code

- Protects the phone against unauthorised use.
- Phone can only be unlocked by using a PIN number.

Third Party CTI (-> see also CTI)
Network wide CTI application.**Time Controlled Function**

- Activation of relays, Class of Service, Phone Lock, Day- Night Service and Call Forwarding.
- System setting may automatically change at preset times.

U**Unit Charge**

Sets a cost per unit for own call cost calculation, independent of network provider, ie. Hotel application.

V**Vanity Plus**

Offers access to stored names in phone book by just entering the first letter of the name (ie. 7 equals S for „Smith“).

W**Wake Up Call/ Appointment Reminder**

- Appointment Reminder and flashing LED will remind at preset time
- Wake Up Call: All types of telephones will ring daily at the preset times.

WAN

Wide Area Network such as the Internet.

WAVE Files

- Format for digital music.
- Format can be used by special programmes such as AGFEO AIS Configuration tool to playback music via the speaker of the computer or to upload music into A-Module 40.
- Wave files are recognised by the file extension „.wav“.

X**X.31 Protocol on Internal S0 Bus**

Feature used by point of sale equipment, such as credit card terminals connected to an internal ISDN Bus (requires at least one BRI from network provider).

System Options	ST 15	ST 21 S0	ST 21 UP0	ST 30	ST 31	ST 40 S0	ST 40 UP0	ST 40 IP	DECT 30	DECT 35	DECT 40	DECT 45	DECT 50	STE 30	STE 40	81
AC 141 WebPhone plus	-	✓3	-	✓	✓3	-	-	-	-	-	-	-	-	-	-	
TK•HomeServer	✓	✓	-	-	✓	✓	-	-	✓2	✓2	✓2	✓2	✓2	-	✓	
AS 151 plus/AS 181 plus	✓	✓	-	✓	✓	✓	-	-	-	-	-	-	-	✓	✓	
AS 181 plus EIB	✓	✓	-	✓	✓	✓	-	-	-	✓2	-	✓2	✓2	✓	✓	
AS 281 All-In-One	✓	✓	-	✓	✓	✓	-	-	-	-	-	-	-	✓	✓	
AS 1x, AS 2x	-	✓	-	✓	✓	-	-	-	✓2	-	-	-	-	✓	✓	
AS 3x	-	✓3	-	✓	✓3	-	-	-	✓2	-	-	-	-	✓	-	
AS 35 All-In-One	✓	✓	-	✓	✓	✓	-	-	✓2	✓2	✓2	✓2	✓2	✓	✓	
AS 35	✓	✓	-	✓	✓	✓	-	-	✓2	✓2	✓2	✓2	✓2	✓	✓	
AS 4000 (P400-1)	-	✓	-	✓	✓	✓	✓	-	✓2	✓2	✓2	-	-	✓	✓	
AS 43, AS 45	✓	✓	✓	✓	✓	✓	✓	✓	✓2	✓2	✓2	✓2	✓2	✓	✓	
AS 200 IT	✓	✓	✓	✓	✓	✓	✓	✓	✓2	✓2	✓2	✓2	✓2	✓	✓	

Emulation Mode x ³	ST 21 S0	ST 31 S0	
Required System Firmware	All systems which will support ST 25	All systems which will support ST 30	✓ ³ = Emulation Mode ✓ ² = In connection with DECT S0 Base plus
Displayed in TK – Suite Set as	ST 25	ST 30 + HS / ST 30 + TAM	
Display	2 lines of 16 characters each	4 lines of 24 characters each	
Display Illumination	None	Always on, when in use or off if supported by system	
Programmable Function Buttons	9	18	
Function Buttons with LED	None	9	
Headset	Corded	DSHG if TAM Module is fitted, then corded only	
Emulation of Shift Button	Function Button Bottom Right	Function Button Bottom Right	
Volume Control (+/-)	No Function	No Function	
Answering Machine Function	None	A-Module 40	
Button Expansion Console (DSS)	None	STE 30 if supported by system	

[illegible]

82	AGFEO Telephone Systems	AC 12 USB	AC 14	AC 14 analog	AC 14 WebPhone	TK•HomeServer	
	Analogue Exchange Line(s)	-	-	1	-	-	
	ISDN BRI Trunk Line	1	1	-	1	-	
	ISDN BRI Line Switchable (Trunk Access or Internal for System Phones or ISDN Devices)	-	-	-	-	2	
	DSL Modem (ADSL 2+) VoIP and Surf	-	-	-	-	✓	
	ISDN-BRI Line Internal, to connect up to 8 ISDN Devices	-	-	-	-	-	
	Analogue Extensions (SLT)	2	4	4	4	4	
	Door Phone Connection Type	2 Wire	2 Wire	2 Wire	2 Wire	2 Wire	
	PC-/Printer Connection (RS 232/USB Port)	USB	RS 232	USB	1/1	RS 232	
	Call Deflection (Forwarding during Ringing Phase)	-	-	-	-	✓	
	Display Callers Number (Caller ID)	✓	✓	✓	✓	✓	
	Busy on Busy	✓	✓	-	✓	✓	
	DDI on System Access Lines (PTP)	-	-	-	-	✓	
	Number of DDI Digits	-	-	-	-	up to 4	
	Call Tracing of Malicious Callers	✓	✓	-	✓	✓	
	Remote Feature Access (i.e. remote setup of a diversion)	✓	✓	-	✓	✓	
	Call Charge Advise at end of call to SLT / System Phone	to analogue phone (SLT)	to analogue phone (SLT)	-	to analogue phone (SLT)	✓/✓	
	Call Data	50	50	50	50	2000	
	Call Transfer to External Trunk Line	✓	✓	-	✓	✓	
	Global Call Setting	-	-	-	-	✓	
	Paging an Talk Back via System Phones	-	-	-	-	✓	
	Extension Number per Device	1	1	1	1	1	
	MSN Assignment, specific	✓	✓	-	✓	✓	
	Call Forwarding	✓	✓	-	✓	✓	
	Relays (switchable from extensions or external access/sensor contact)	-	-	-	-	-	
	Callback when Free	✓	✓	-	✓	✓	
	Call Through	✓	✓	-	✓	✓	
	Tariff Unit Factor	2	2	-	2	2	
	Phone Book Entries	200	200	200	200	1000	
	Door Phone Diversion to External Number	-	-	✓	-	-	
	Door Phone Mode (Day-/ Night Mode)	-	-	✓	-	-	
	Forced Line Release to connect Emergency Calls	✓	-	✓	-	✓	
	Transmission of Call Charges (ISDN)	✓	✓	-	✓	✓	
	Withhold Own Number	✓	✓	-	✓	✓	
	Music on Hold	Preset	Preset	Preset	Preset	Preset	
	Wake Up Call/Appointment Reminder	-	-	✓	-	✓	
	x.31 on internal ISDN-Bus	-	-	-	-	✓	
	Call Forwarding (ISDN) on All, Busy or No Answer	✓	✓	-	✓	✓	
	Conference Calling	✓	✓	-	✓	✓	
	WLAN	-	-	-	-	✓	

Common features of all AGFEO Telephone Systems

- Call Barring (5 levels)
- Call Waiting, Reject Waiting Call
- System Programming via Phone or PC
- Call Log
- Do not Disturb (Extensions - Or Incoming Calls)
- Day- Night Service, Call Forwarding
- Automatic Line Seizure (Direct Line)
- Auto Dialling (Hotline)
- Computer Telephony Integration (CTI)
- Setting of Service Identifier per terminal device
- Least Cost Routing (LCR) Incl. Auto Fallback
- Name Allocations to Extensions and Lines (MSN's, S0)
- Call Park
- Room Monitoring from Internal or External
- Reservation of Trunk Line
- Incoming Ringing Pattern (5 Settings)
- Call Diversion to Extension or Outside Number
- Barr- and Exception Tables
- Call Charge Limit
- Telephone Lock (Emergency Call Possible)
- Time Controlled Function

var.= variable

EO&E

	AS 151 plus	AS 181 plus	AS 181 plus EIB	AS 281 All-In-One	AS 35 All-In-One	AS 35	AS 43	AS 45	AS 200 IT	83
	-	-	-	2	2	-	var.	var.	var.	
	1	1	1	-	-	1	var.	var.	var.	
	1	1	1	1	2	3	var.	var.	var.	
	-	-	-	-	-	-	var.	var.	var.	
	-	-	-	-	-	-	var.	var.	var.	
	4	8	8	8	12	12	var.	var.	var.	
	2 Wire	2 Wire & FTZ	2 Wire & FTZ	2 Wire	2 Wire	2 Wire	var.	var.	var.	
	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	up to 4	up to 4	up to 4	up to 4	up to 4	up to 4	up to 4	up to 4	up to 4	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	✓/✓	✓/✓	✓/✓	✓/✓	✓/✓	✓/✓	✓/✓	✓/✓	✓/✓	
	2000	2000	2000	2000	2000	2000	2000	2000	2000	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	2	2	2	1	1	1	1	1	1	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	-	Two Relays	Two Relays	-	-	-	var.	var.	var.	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	2	2	2	2	2	2	2	2	2	
	1000	1000	1000	1000	1000	1000	1000	1000	1000	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Preset	Preset or External Music Source	Preset or External Music Source	Individual via AIS	Individual via AIS	Individual via AIS	Individual via AIS and Optional via Music Source	Individual via AIS and Optional via Music Source	Individual via AIS and Optional via Music Source	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	-	-	-	-	-	-	-	-	-	

Perfectly Balanced

AGFEO Telephone Systems have been perfectly balanced for the telephone network of the relevant country. These settings are so extensive that systems cannot be interchanged. Please ensure to order the system for the required country of operation.


AGFEO Telekommunikation

Gaswerkstr. 8
33647 Bielefeld
Germany

E-Mail: info@agfeo.de
Internet: www.agfeo.de

Info-Line:

+49(0)700 CALL AGFEO
+49(0)700 22 55 24 336

Info-Fax:

+49(0)521/447 09-98 555

Technical Support:

techline@agfeo.de