PBX-System

AC 14 analog

AGFEO
einfach | perfekt | kommunizieren

Introduction

Get Started

Connect the plug at the end of the power supply into the socket labelled with the power symbol (⏚) until you hear it click.
Connect one end of the analogue connection cable into the socket labelled "AMT" until you hear it click in place.
Connect the other end of the cable to the socket of the network provider or the installed socket.
Connect the plugs of your telephone equipment to the telephone system.
The default setting of the AC 14 analog is that the first connection is extension 11 and the second connection is extension 12.
Plug the power supply into the 230V main socket. The red LED will flash while initialising and then light up.
To enter your phone number, see below.
You now can make calls. After lifting the telephone receiver you will hear the dial tone of the telephone exchange.
An incoming call will ring extension 11, 12, 13 and 14.

Introduction

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Introduction

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

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

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

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

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

To make an enquiry call your phone must have an R Button (Recall Button). The signalling for
this must be set to Timed Break Recall (TBR). On older rotary dial phones you do not need to
press the R Button when making an enquiry call. System functions such as last number
redial, abbreviated dialling etc, can be carried out from any LD phone.

You can also use the functions of a standard analogue telephone (e.g. redial, abbreviated
dialling) in conjunction with your telephone system. Please refer to the operating instructions
for the telephone concerned for details of these functions.
Details of how to operate the functions of your telephone system that you are able to use
from a standard analog telephone set to DTMF are given in the instruction manual.

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

Please ensure that your provider has disabled meter pulses to avoid any interference on your
phone calls.

For data transfer via the analogue ports, the telephone system supports the V.90 standard (up
to 56600 bps, a reduction in speed is possible due to transmission path and cables used, down
to 28800 bps V.34). When operating a modem, it is imperative to configure the modem to blind
dialling because most modems do not detect the dial tone of a telephone system. On modems
that operate with the Hayes command set, blind dialling is set by means of the X0..X4
parameters

Introduction

Pictograms And Buttons

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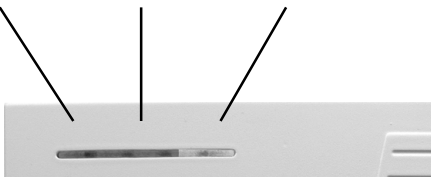
Pictograms

«◁»	Ringer	♪	Conduct a call
☝	Pick up receiver	☟	Replace receiver
⌨	Dial Phone or Code Number	✳	Conference
∴	Acknowledgement tone	▣	Room monitor

Buttons

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

LED´s Of The AC 14 Analog

LED 1   **LED 2**   **LED 3**

	Permanently lit	Flashes
LED 1 (red)	System is operational	System being initialised
LED 2 (green)	System connected to the phone network	Inward or outbound call
LED 3 (green)	System is connected to the computer via USB	Data being transferred

Introduction

Fax Switch

A fax switch is a device or feature of a device that recognises the difference between telephone and fax calls. The fax switch automatically forwards telephone and fax calls to the correct extension.

Your "AC 14 analog" is fitted with a fax switch which you can set conveniently in TK Suite or via a programming procedure (see page 10).
You have the option of choosing between 3 operating modes: Active, Passive or Inactive.

ACTIVE:
   If you set the fax switch to "Active", the PBX takes an external call, checks whether it is a fax and then forwards it to the default extension if required.

PASSIVE:
   If you set the fax switch to "Passive", the fax switch checks all calls in the background which have already been taken by a telephone or an answering machine. If the call is a fax, it is then forwarded to the default extension automatically. The extension which took the call originally will automatically receive a busy tone.

INACTIVE:
   The fax switch is disabled.

Note

In 'Active' mode, the fax switch will answer all incoming calls automatically on the second ring and then will ring the relevant extension phone. Please note that in this mode the incoming caller will be charged for the call. This is regardless whether the caller was able to speak to the relevant extension. During this connection process the caller will hear a system generated ringing tone, this may differ from the normal exchange tone generated.

Installation

Check Delivery Contents

- 1 PBX System
- 1 230 V-Power Pack
- 1 connection cable to analogue exchange, length 1,5 m
- 1 PC-USB connection cable, length 3 m

- 2 plugs and screws
- 1 manual
- 1 CD-ROM with TK-Suite

Connections Of AC 14 Analog

| Connection for Power Pack | USB Connection | Port 1 Extension No. 11 | Port 2 Extension No. 12 | 1 2 3 4 5 6 7 8 | connection to analogue network |

Port 1, Extension No. 11

Port 2, Extension No. 12

Port 3, Extension No. 13

Port 4, Extension No. 14
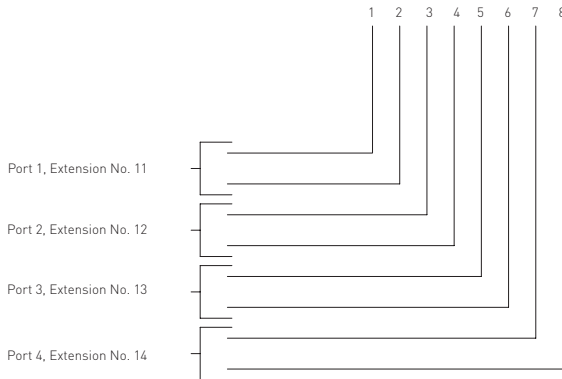
Installation

Select Location

Install the System in a dry room free of any hazardous materials. Avoid sites near air conditioners, radiators, equipment with excessive high radiation, direct sunlight, excessive dust and the danger of liquid spillages such as water or chemicals.
Ambient temperature 5C to 30 C. Max humidity 70% non condensing.
The distance of the equipment to other objects such be considered to guarantee an air circulation. The minimum clearance distance of 50 cm should be adhered to. The distance of the system to the mains socket and the telephone network socket should not be more than 1 meter. (Length of mains cable 1.20 m)
It must be made possible to place a Laptop or PC near the telephone system for programming.

Mains Socket

On power failure the PBX System is without function.
Use the provided Power Pack only. Model No.: TST 1100468

Safety Notice

The telephone system is for the connection to an anlogue line.
You may connect any analogue apparatus to the system which you are allowed to connect to the Public Switched Telephone Network (PSTN).
Any other use of the system which does not comply with the aforesaid is prohibited.
The system has a General European Connection Licence.

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

Installation

Connect Analogue Extensions

You may connect up to four analogue apparatus to the system which have been approved for connection to the public switched telephone network.
a/b-Apparatus is:
- Telephone (2 wire Phone or POT) either LD or MF Dialling with Timed Break Recall (TBR) (60 – 800 ms)
- LD Phones may only have limited feature access.
- Fax machines Group 3
- Telephone Answering Machines
- Modem 56k (V.90 to 56600 bps, may reduce to 28800 bps due to quality of lines V.34)

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

Wall Mounting

- Mark two vertical drill holes 92 mm apart on the wall.
- When marking the drill holes, make sure that there are no concealed lines at these points (gas, water pipes, electric cables or similar).
- Drill the two holes.
- Insert the wall plugs so that they are flush with the wall.
- Screw in the two screws leaving the head protruding by about 4 mm.
- Hang the telecommunications system on the screws and pull it down on the wall until it snaps into place.

Connecting Extensions To Separate Sockets

If you want to connect your extensions to separate sockets, you will find the connection panel for the plug-in extensions on the underside of your AC 14 analog. Unplug the power pack from the 230 V mains socket before working on the connection panel. The assignment of the extension connections is displayed on the connection panel. To ensure perfect functioning of the telecommunications system and the connected extensions, you should connect the terminals either to the sockets or the plug-in terminals! This means that if a extension is connected directly via a socket, e.g. connection 1, no second device should be connected via the terminals at the same extension connection, e.g. La1/Lb1. The connections La and Lb of the plug-in extensions are connected with connections 1 and 2 of the separate sockets. You can use commercially available telephone lines for the connection. We recommend: Telephone lines length between telecommunications system and sockets: max. 800 metres at 0.6 mm wire diameter.

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Installation

Activate The FAX Switch

Start programming mode with: ☏ ✳ P₇ R₇ O₆ (System-PIN) ▪▪ ☏
PRO

|			
		4 Inactive	
☏ ✳ 3 2 9 2		2 Active	▪▪ ☏
		7 Passive	
Lift receiver	FAX switch activation		Acknowledgement tone Replace receiver

Continue programming or end programming: ☏ ✳ E₃ N₆ D₃ ▪▪ ☏
END

Enter Extension Number Of FAX

Start programming mode with: ☏ ✳ P₇ R₇ O₆ (System-PIN) ▪▪ ☏
PRO

☏	✳ 3 2 9 4	⌗	▪▪	☏
Lift receiver	Extension number of FAX	Enter two digit extension number	Acknowlegement tone	Replace receiver

Continue programming or end programming: ☏ ✳ E₃ N₆ D₃ ▪▪ ☏
END

Factory Settings

- Incoming calls will ring extensions 11,12, 13 and 14
- Extension numbers: 11, 12, 13, 14
- External Line Access: Full access for all extensions
- External Line seizure: Spontaneous seizure with internal
- Day Service: No entry
- Night Service: No entry
- Call Waiting: Not enabled on extenions 11,12 and 14. Call Waiting is enabled for extension 13.
- Internal Call Forwarding: Off
- CLIP: On
- MoH: Internal
- Automatic Dial: Off
- Time Accounts: No Time Accounts set
- Disconnect on Limit reached: Off
- System-PIN: Not activated
- Clock: Not set
- FAX Switch: Inactive
- Terminal Types: Extensions 11 and 12 are set to telephone, extension 13 answering machine and extension 14 to multifunctional device.

Quick Reference

Making A Call - Spontaneous Seizure With Internal (Factory Setting)

|					
External call	Lift receiver External dial tone	Enter external phone number	Ringing tone		External Party answers, conduct call

The spontaneous external seizure (seize outside line) is only possible directly after lifting the receiver. If you want to make an external Enquiry during an internal call, you have to seize the external line by dialling 9.

|						
Internal call	Lift receiver External dial tone	press hash-key	Internal dial tone	enter Exten-sion number	Ringing tone	Extension answers, conduct call

Making A Call - External Seizure With "9"

External call	Lift receiver, internal dial tone	Seizure with "9" 9	External dial tone	Enter external phone number	ringing tone	External party answers, conduct call
Internal call	Lift receiver, internal dial tone	Enter extension number	ringing tone	extension answers, conduct call		

Internal Call Waiting

You are on a call and hear the call waiting tone	end the call	automatic ringing by the waiting party	Lift the receiver	conduct the call

External Call Waiting

You are on an internal call and hear the call waiting tone	Press R, the call is placed on hold	Fetch the waiting external call (9)	conduct the call

Reject A Waiting Call

You are on a call and hear the call waiting tone	Press R, the call is placed on hold	Reject the waiting call ⁎ 2 2 9	Continue your call

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Quick Reference

Call Waiting Cancel

☎	✱ 2 6 5	2 disable / 3 enable	⚡	☎
Lift receiver	Call waiting cancel	Acknowledgement tone	replace receiver	

Internal Transfer With Announcement

♪	R	⌨	♪	☎
Conduct external call	enquiry, external call is placed on hold	Enter internal phone number	Announce external call	transfer external call

Internal Transfer Without Announcement

♪	R	⌨	☎
Conduct external call	enquiry, external is placed on hold	Enter internal phone number	transfer external call

Pick Up An External Call

((◁))	☎	✱ 4 6 3	♪
External call on - another telephone	Lift the receiver	Pick up external call	Conduct call

Brokers Call

♪	R	⌨	♪	R	→
Conduct first Call	Enquiry first call is placed on hold	Enter extension number	conduct call	Enquiry, both calls are placed on hold	

⌨ with "9" to external call or with extension number to internal call	♪	→

Callback When Free

☎	⌨	⚡	R	✱ 7 8 3	☎
Lift receiver	Enter extension number	Busy tone	Enquiry	Callback when free	Replace receiver.

Quick Reference

Enter Wake Up Time

☏ ✳ 9 3 2 7   7 ⌨   6 ⌨   ⚡   ☏

Lift receiver Enter Wake Up Time   Enter hour in two   Enter minutes in two   Acknowledgement   Replace
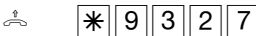   digits   digits   tone   receiver

After Entering the Wake Up Time, Wake Up call is activated for all days.

Set Wake Up Days

You can specify on which days the Wake Up Call will be triggered on your telephone after you have entered an alarm time.

☏   ✳ 9 3 2 7   9 ⌨ Enter digits according to the following list   # ☏

0 = all off
8 = Monday to Friday
9 = Monday to Sunday
1..7 = Monday .. Sunday

You can enter several days in sequence. If, for instance, you want to activate the Wake Up call for Monday, Wednesday and Friday, use the following approach:

☏   ✳ 9 3 2 7 9   1   3   5   #   ☏
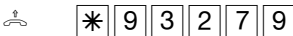
                           Monday   Wednesday   Friday

After entering the Wake Up Days, Wake Up Call is activated for this days.

Switch On Wake Up Call

☏ ✳ 9 3 2 2   ⚡   ☏   Switch on Wake Up Call is needed, to
                                       reactivate a deactivated Wake Up call.
Lift receiver Code to switch on Wake   Acknowledgement Replace
               Up Call   tone   receiver

Receiving A Wake Up Call - Stop Wake Up Call

☏   ☏

Lift receiver   Replace receiver

Switch Off Wake Up Call

☏ ✳ 9 3 2 3   ⚡   ☏

Lift receiver Code to switch off Wake   Acknowledgement Replace
               Up Call   tone   receiver

13

Quick Reference

Receiving A Wake Up Call – Activate Snooze Function

After completion of the procedure ‚Continue Wake Up Call' the phone will ring every 10 minutes for a one hour period.

☎   ✳ [9][3][2][9]   ·•·   ☎

Lift receiver Code to activate snooze function   Acknowledgement tone   Replace receiver

Set Time

Start programming mode with: ☎ ✳ [P 7] [R 7] [O 6] (System-PIN)   ·•· ☎

☎   [✳][8][4][6]   [7] ▦ Enter hours (two digits)   [6] ▦   Enter Minutes (2 digits)   ·•· ☎

Continue Programming or end Programming: ☎ ✳ [E 3][N 6][D 3] ·•· ☎

Set Date

Start programming mode with: ☎ ✳ [P 7] [R 7] [O 6] (System-PIN)   ·•· ☎

☎   [✳][3][2][8]   [8] ▦ Enter Day (2 digits)   [6] ▦ Enter Month (2 digits)   [5] ▦ Enter year (two digits)   ·•· ☎

Continue Programming or end Programming: ☎ ✳ [E 3][N 6][D 3] ·•· ☎

Show Time

You can have the time of day displayed on a CLIP telephone. After completing the procedure, the time is shown for up to 60 seconds – depending on the type of device used - on the display of the telephone that has been hung up. Wile showing the time, the displaying telephone rings.

☎   [✳][8][4][7]   ·•·   ☎   The time is shown up to 60 seconds on the display

Show time   Acknowledgement tone   replace receiver

Time Accounts

You can set up a time account for external connections for each internal party. Furthermore, you can specify what should happen when the time limit is reached for each party: should the internal party be allowed to finish outside calls without being cut off, but not be allowed to make any more external calls, or should the call be cut off immediately. The party will first be allowed to make external calls again when the time limit has been cleared. Exception: the direct number can still be called after the time limit has been reached.
Time accounts are protected by a special PIN (Personal Identification Number).
Delivery status: PIN - No entry, Time Limit - No entry, Disconnect on limit reached - Off.

Quick Reference

Time Account Menu Start/Stop

You can protect access to the time account menu by entering a 4-digit account PIN. If your hear the engaged tone on entering the menu, enter the account PIN. If you hear a short confirm tone, no PIN has been set for this time account.
If you have forgotten the Account PIN, you can change it on your PC in TK Suite Set (Security Properties/Code Digits). If the time account is initiated, you hear a special dialling tone when you pick up the receiver.

Start Time Account Menu

☏   ✳ 6 5 7   (▦ Enter Account Pin)   ••••   ☏

Lift receiver   Start Time Account Menu   Acknowledgement tone   Replace receiver

Stop Time Account Menu

☏   ✳ 3 6 3   ••••   ☏

Lift receiver   Stop Time Accout Menu   Q - Ton   Replace receiver

Enter / Delete Account PIN

Start Time Account Menu with ✳ 5 6 7

                               3 Enter   7 ▦ Enter new Account PIN

☏   ✳ 7 4 6   5 Delete   ••••   ☏

Lift receiver   Enter/ Delete Account PIN   Acknowledgement tone   Replace receiver

Stop Time Account Menu with ✳ 3 6 3

Enter / Delete Time Limit

Start Time Account Menu with ✳ 5 6 7

                               3 Enter   2 ▦ #

☏   ✳ 5 4 6   5 Delete   4 ▦   ••••   ☏

Lift receiver   Enter or delete Time Limit   Extension number you want to set or delete a time limit for.   Enter Time Limit in minutes that the extension shall be able to make external calls and conclude input with #.   Acknowledgement tone   Replace receiver

Stop Time Account Menu with ✳ 3 6 3

Quick Reference

Switch Disconnect On Limit Reached On / Off

Start Time Account Menu with ⁂567

☏   ⁂873   3 On   2 Off

Lift receiver   Disconnect on Limit Reached   Acknowledgement tone   Replace receiver

Stop Time Account Menu with ⁂363

Locking / Unlocking Your Phone

☏   ⁂724 (Telephone-PIN)   2 Unlock phone   3 Lock phone   Acknowledgement tone   Replace receiver

Lift receiver   Telephone lock

Pogramming Telephone PIN

☏   ⁂746 (Telephone-PIN)   3 Enter   5 Clear   7 ▦   Acknowledgement tone   Replace receiver

Lift receiver   Program PIN   Enter old PIN   Enter the new 4-digit PIN (0000 to 9999),

Set Call Barring

Start Programming mode with: ☏ ⁂776 (System-PIN) •• ☏

☏   ⁂237   8 Full   4 National   6 Internal only   2 Local   5 None   4 ▦   ••   ☏

Lift receiver   Call Barring   Select Service   Enter extension Number for which the access should be valid   Confirmation tone   Replace receiver

Continue programming or end programming mode: ☏ ⁂363 •• ☏

Quick Reference

Program Exceptions Codes

Start Programming mode with: ☎↑ ✳ P₇ R₇ O₆ (System-PIN) 🎵 ☎↓

☎↑ ✳ 3 7 3   3 Enter   4 ⌗   8 ⌗   ⌗   🎵   ☎↓

                      5 Delete

Lift receiver	Exceptions Codes		Enter Index 0 to 9	Enter STD code, max 6 digits	Confirmation tone	Replace receiver

Continue programming or end programming mode: ☎↑ ✳ E₃ N₆ D₃ 🎵 ☎↓

Enter Barred Numbers

Start programming mode with: ☎↑ ✳ P₇ R₇ O₆ (System-PIN) 🎵 ☎↓

☎↑   ✳ 7 7 3   3 Enter   4 ⌗   8 ⌗   ⌗   🎵   ☎↓

                      5 Delete

Lift receiver	Barred numbers		Enter Index 01 to 20	Enter STD Code, max 6 digits	Confirmation tone	Replace receiver

Continue programming or end programming mode: ☎↑ ✳ E₃ N₆ D₃ 🎵 ☎↓

Assign Barred Number (To Extensions)

Start programming mode with: ☎↑ ✳ P₇ R₇ O₆ (System-PIN) 🎵 ☎↓

☎↑   ✳ 9 8 9   2 Off   4 ⌗   🎵   ☎↓

                      3 On

Lift receiver	Assign Number		Enter Extension Number	Confirmation tone	Replace receiver

Continue programming or end programming mode: ☎↑ ✳ E₃ N₆ D₃ 🎵 ☎↓

Communication via PC

Establish An USB Connection

You may connect the telephone system with a PC or Notebook via the USB connection.
(Not supported with Windows NT 4.0)
 1. Take the supplied USB Cable. You will identify this on the USB Symbol on the plug.
 2. Plug in the square plug of the USB cable into the USB socket of the telephone system
 3. Plug in the flat plug of the USB cable in one of the USB connections of your computer
 4. Switch on your computer
 5. On start-up of Windows with the telephone system, you will be requested to enter the
     location of the driver.
IMPORTANT! It may be that during the installation you will be asked to insert the CD of the
operating system. Therefore it will be advisable to have this CD to hand.
 6. Once the PC has identified the connected telephone system, the hardware assistant will
     be displayed. The hardware assistant will install the software for the new Hardware
     components (AC 14 analog). Click on "next"
 7. In the following dialog window select find "suitable driver" for hardware (recommended).
 8. Enable the option "CD-ROM Drive" and de-select all other check boxes. Insert the CD
     "Communications Software" with the USB Drivers in the CD-ROM drive and click on
     "next".
 9. After the driver has been found click on next to start the installation.
10. Drivers being installed
11. Insert the Operating System CD if asked to do so, to install the USB support. After the
     software has been installed click on "finish".
12. Restart your computer to complete the installation.

Configure Your AC 14 analog

You can configure your AC 14 analog with a few mouseclicks, after connecting it to a PC:
- Start "TK-Suite Mini" on your AGFEO CD.
- Set Interface to "USB direct connection"
- Click on "Get and edit PBX configuration"
- Edit the configuration
- Click on "Send Configuration" to send the configuration to the AC 14 analog
- If you want to revert to the latest configuration, click on "Revert to latest sent
   configuration".

Use TK-Suite Basic to make full use of all the features of your AC 14 analog, such as CTI,
Call Filters or editing the Phone Book.

EU-Konformitätserklärung

EC-Declaration of Conformity
CE-Déclaration de Conformité

Der Hersteller: **AGFEO GmbH & Co. KG**

The Manufacturer:
Le Constructeur:

Adresse: **Gaswerkstr. 8**
D - 33647 Bielefeld

Address:
Adresse:

Erklärt, dass das Produkt: AC 14 analog

Declares that the Product:
Déclare que le Produit:

Type: Telefonanlage

Model: AC 14 analog

Components:

die grundlegenden Anforderungen gemäß Artikel 3 der nachstehenden EU-Richtlinien erfüllt:

meets the essential requirements according to article 3 of the following EC-Direcive:
est conforme aux exigences essentielles d´ article 3 de la Directive CE:

Richtlinie 1999/5/EG des Europäischen Parlaments und des Rates vom 09. März 1999 über Funkanlagen und Telekommunikationsendeinrichtungen und die gegenseitige Anerkennung ihrer Konformität

Directive 1999/5/EC of the European Parliament and of the Council of 09 March 1999 relating to radio and telecommunications terminal equipment, including the mutual recognition of their conformity
Directive 1999/5/CE du Parlement européen et du Conseil du 09 mars 1999 concernant les radio et équipement terminaux de télécommunications, incluant la reconnaissance mutuelle de leur conformité

und dass die folgenden harmonisierten Normen angewandt wurden:

and that the following harmonised standards has been applied:
et que les standards harmonisés suivants ont été appliqués:

EN 55022/2003
EN 55024/2003

Bielefeld, 2. Februar 2005

Ort und Datum der Konformitätserklärung
Place and date of the declaration Lieu et date de la décleration

Phone   : +49(0)5 21 44 70 9-0
FAX   : +49(0)5 21 44 70 9-50

Name und Unterschrift
Name and Signature Nom et Signature

CE