Door Phone

TFE 2, TFE 4

AGFEO
einfach | perfekt | kommunizieren

Safety Notice

The door phones have been designed to be connected directly to the SLT (POT) port of a telephone system. The voltage for the door phone will be supplied by the telephone system. Door locks and external bells can be operated in addition but would require a bell transformer to supply voltage to the door phone. Ensure that the voltage for the door lock will be between 8 V ~ and 14V ~ and that the switched current will not be higher than 2 A ~. The door phone has only be licensed for its intended use. AGFEO GmbH will not be liable for any damage if the door phone is used other then for its intended use.

The housing of the door phone may not be opened. Unauthorised opening of the unit and improper repair may be hazardous to other users and will invalidate the warranty.

Plugs which show defects or power supply units with defect housing must not be continued to use due to the danger of an electric shock. Ensure that such items are immediately replaced with original parts.

The door phone may only be connected to power supply units which deliver a SELV Voltage or comply to ETS 300 047. The intended use of the authorised apparatus fulfil this requirement.

Do not let liquids enter the inside of the door phone as there could be the danger of an electric shock or short circuiting.

DO NOT install the door phone during a thunder storm or connect or disconnect any cable connections to eliminate the danger of an electric shock.

DO NOT connect any apparatus which are referring to earth on their lines. You must not connect the a/b wire to earth as permanent damage to the unit may result.

TFE 2, TFE 4

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Introduction

The AGFEO Doorphones may be connected to the analogue extension ports of AGFEO Telephone Systems if this has been set to ¨Door¨.

Please contact your Dealer for connections to AGFEO Systems which do not support the operation mode ¨Door¨.

The AGFEO TFE 2 can be fitted with 1 or 2 bell push buttons. In addition there is a 12 V contact and a potential free relay contact.

The AGFEO TFE 4 can be fitted with 3 or 4 bell push buttons and offers a 12 V contact.

The bell push button, in which a name plate may be inserted, is illuminated. A bell transformer is required for the operation of the button illumination, voltage to the door release and the operation of the potential free contact relay.

The bell transformer is supplied as a Plug In Type Power Supply and is available optionally. (Order No. 6100259)

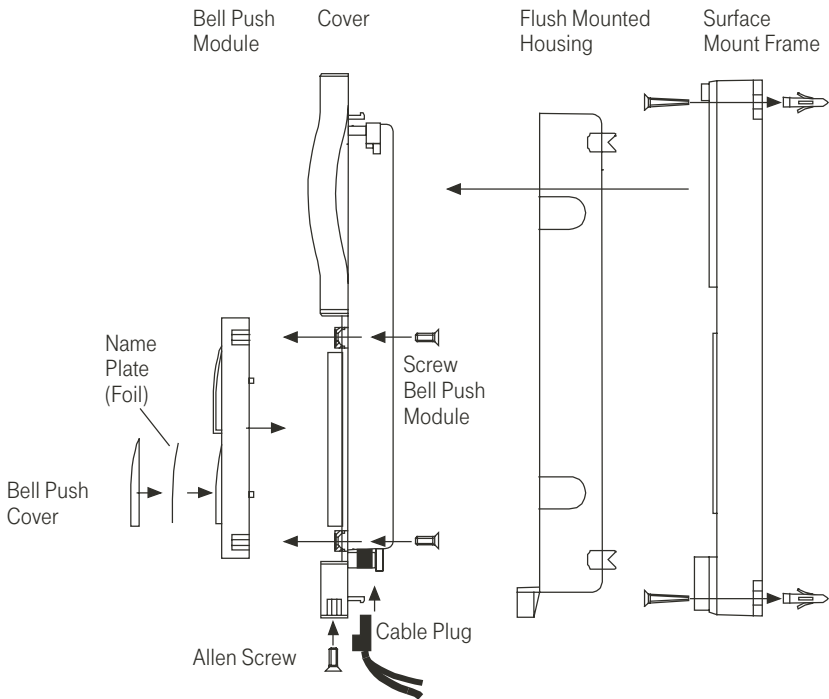The door phones are optimised to work with AGFEO Telephone Systems.

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Supplied Items

1 Door Phone with Cover and Assembled Bell
   Push Module
(with 2 push buttons for TFE 2 and 4 push
   buttons for TFE 4)
1 Flush Mounted Housing
1 Additional Bell Push Module (with 1 button
   for TFE 2 and 3 buttons for TFE 4)
1 Surface Mounted Housing

1 Pack with 2 Wall Plugs
2 Screws 4 x 30
2 Screw Covers
1 Cable Sleeve
2 Allen Screws
4 Fixing Clamps
4 Screws for Fixing Clamps
1 Allen Key

Fitting instructions

The Door Phones TFE 2 and TFE 4 are suitable for surface or flush mounting. In addition the TFE 2 may be installed upright or horizontally. The bell push module can be turned by 90º .

Bell Push Module   Cover   Flush Mounted Housing   Surface Mount Frame

Name Plate (Foil)

Bell Push Cover

Screw Bell Push Module

Allen Screw   Cable Plug

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Installation Options

Before the installation of the door phone you may want to decide if you want to fit the module upright or horizontally. This is only applicable to the modules with one or two bell push buttons. The module with three or four buttons can only be installed upright.
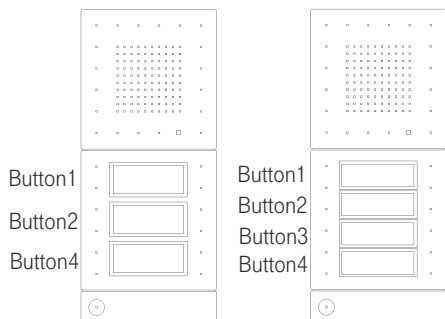
Various fitting possibilities for the TFE 2
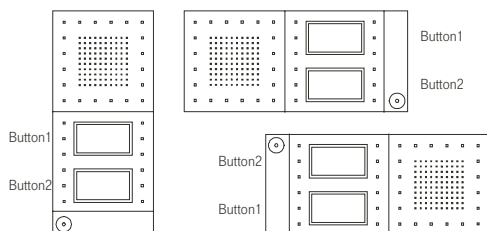

Fitting possibilities with 1 button
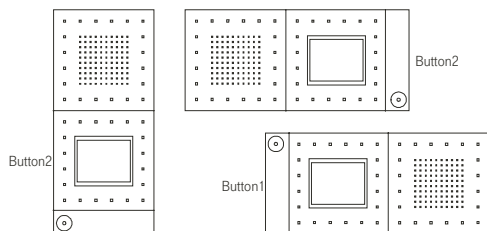
Fitting possibilities with 3 or 4 buttons

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Location of Unit

The door phone TFE 2 and TFE 4 have been designed for use outside and are protected from water splashes (Dampness protection to IP 53, water splashes of an angle of 60º from vertically) Please select the location of the unit so that there is a minimum distance of 10 cm (4 inches) from the microphone to the nearest wall. Also ensure that the selected installation location is free of other services, such as mains cable etc.

min. 10 cm

min. 10 cm
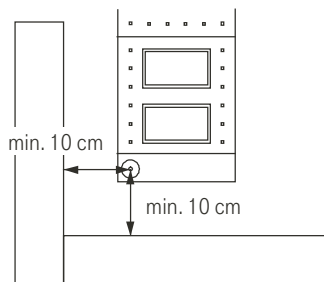
TFE 2, TFE 4

Flush Mounted Fitting

The wall cut out should fit the measurements of the flush mounted housing. (Observe minimum distance and location of installation) Please make sure that there are no mains services buried in the wall. Measurements for the cut out to be L x H x D approx. 220 x 90 x 50 mm.

Cable Entry
A cable entry slot is available on all sides of the flush mounted housing. The cable entry locations are pre assigned and can be broken out.

Fixing of Flush Mounted Housing
The housing can be fixed with additional fixing clamps and screws at the four pre assigned points of the housing. The housing must be flush to the wall as otherwise the cover cannot be fixed. If the wall is going to be plastered at later time, then the thickness of the plaster must be observed.

Connection of Door Phone to System
Connect the wires to the supplied clip and connect this to the printed circuit board. (see Door Phone Installation)

Inserting the Door Phone
Hook the door phone into the top of the housing and at the same time pressing the unit upwards to the wall until this snaps into place. Afterwards tighten the two screws with the Allen Key provided.

Door Phone Calibration and Configuration
Now carry out the calibration, configuration and commissioning. (see Chapters: Tuning and configuration, also TFE commissioning)
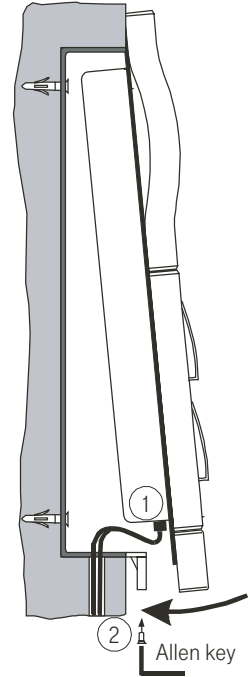
TFE 2, TFE 4

Loosen Door Phone from Flush Mounted Housing

Unscrew both screws with the Allen Key provided from underneath the cover.

Remove Door Phone from Flush Mounted Housing
To release the unit use a medium sized screw driver or Allen Key and press the bottom latch then pull off the door phone with an upward movement.

Latch

Allen Key
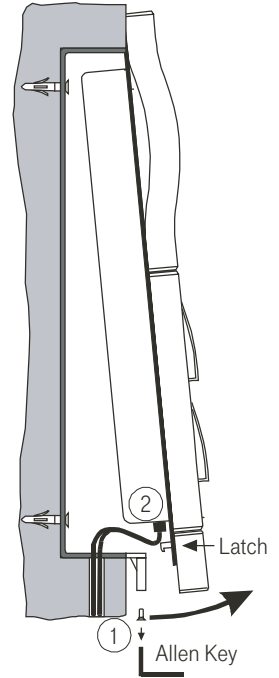
TFE 2, TFE 4

Surface Mounting

Fit the surface mount frame either upright or horizontally as required. (Observe minimum distance) Before drilling ensure that there are no life wires or other main services. Fix the frame using the wall plugs supplied and screw this to the wall

Connection of Door Phone to System
Install cable to the telephone system and door opener. Drill a 9mm hole in the surface frame were required, pull the cable through the sleeve and connect the wires to the supplied clip then connect this to the printed circuit board. (see Door Phone Installation)

Insert Door Phone
Hold door phone over the fixing hooks of the surface mount frame and then press firmly until you hear it click into place. Tighten both screws with the Allen Key provided.

Door Phone Calibration and Configuration
Now carry out the calibration, configuration and commissioning. (see Chapters: Tuning and configuration, also TFE commissioning)
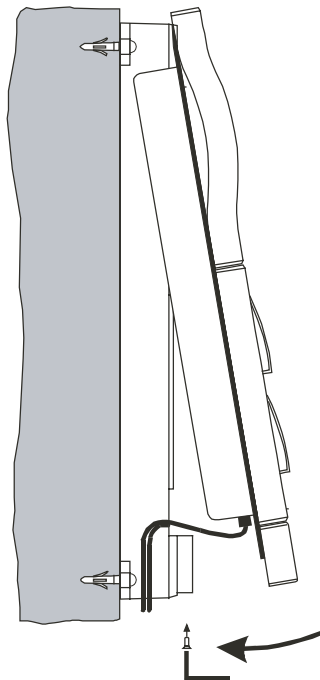
Deinstallation

Loosen the door phone by unscrewing the two Allen Screws underneath the unit using the Allen Key provided.

Remove Door Phone from Frame
To release the unit use a medium sized screw driver or Allen Key and press the bottom latch then pull off the door phone with an upward movement.

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Name Plate

Remove the cover of the name plate by using a medium size screw driver inserting this into the cut out on either the left or right hand side and carefully moving this upwards.

Write on the name plate using a waterproof pen and insert the label in the recess of the bell push. Afterward refit the name plate cover by aligning this over the bell push and pressing it into place.
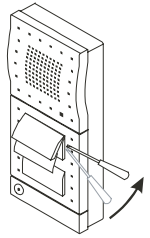
Maximum Distance

For the installation of the door phone you may use standard telephone cable. The maximum cable length will depend on the cable diameter used.

The maximum distance for speech and signalling can be up to 120 m if a cable diameter of 0,6 mm is used. This distance will be reduced to 80 m if the diameter of the cable is 0.4 mm.

The distance between the bell transformer and the door opener may be up to 38 m for a 0.6 mm cable diameter and up to 17 m for a 0.4 cable diameter.

Connection of Door Phone to the Telephone System

Do not install cables parallel to mains cable. Should the cable be installed underground, then please ensure that you will use an armoured telephone cable or use a waterproof trunking. The telephone system and the bell transformer must be unplugged from the mains before you connect the doorphone to the telephone system.

Connection TFE 2   **Connection TFE 4**

Connector

to System a b

Power Suppy for button illumination and door opener 12V AC

12V AC out

Relay with closing contact

Door Bell

Door Opener or Door Bell

Connector

to System a b

12V AC out   Door Opener

Power Supply for button illumination and door opener 12V AC
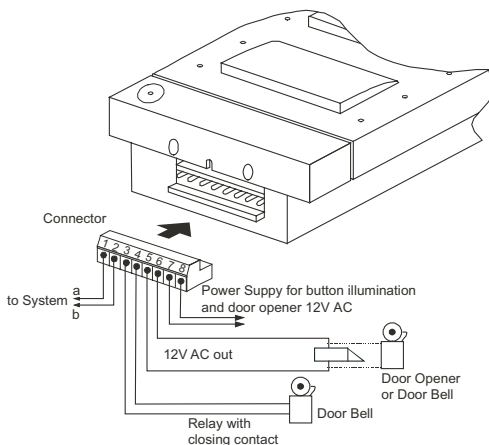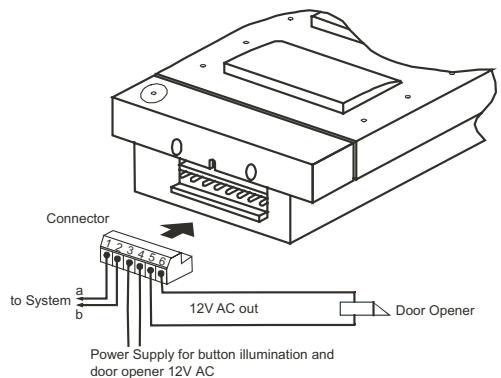
TFE 2, TFE 4

Telephone System Configuration

After you have connected the door phone to the telephone system you will have to read out the system configuration. Assign in the section "Devices: Analogue / Analogue System Phones" an extension number to which the door phone is connected. Also select the "Phone Type" to "Door". Please ensure that the external line seizure for the door phone will be set to "access with 9".

Click on the section „Devices: Doors ". On the right hand side click on the item „Door".

Now allocate an extension number for each bell push. Once you have allocated all required bell pushes, you may now select the Call Distribution for Day and or Night Service by clicking on the relevant item.

In this example we have selected Call Distribution (Day) and can now select the extensions which should ring when the bell push 51 is pressed.

Enter in the same section how long a door phone call should ring on the telephone extension and for how long the connection is allowed to last for an external call until the line will be force released. Please ensure that the timing for signalling and call duration is also set to an equal time in the door phone.
Finally enter the DTMF digits for controlling the door phone: „#9" to operate the door opener, „#0" to end the call and any digit to speak.

Door settings			
Duration of Door Phone Call (secs.)	30	Force Release Door Phone (secs.)	600
DTMF digits for 2-Wire a/b Door Interfaces			
DTMF Digits for Speaking Mode	1		
DTMF Digits for Opening	#9		
DTMF Digits for Disconnect	#0		

Now upload the program data to the telephone system.

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Programming the Door Phone

In order to make changes to the door phone setting, the door phone extension must be called from a DTMF telephone. Programming can begin as soon as a connection has been established to the door phone. Please ensure to enter the digits without any delay in between digits as otherwise the door phone may reject the entry as incorrect.

To Start Programming Mode

☎	▦	∿	# #	∿	▦	∿
Lift Receiver	Dial Door Extension	positive Tone	Start Prgm Mode	Neutral Tone	Enter PIN (000 default)	positive Tone

NOTE. Programming mode will end as soon as the receiver is replaced!

Enter Extension Number of Bell Push

Enter Programming Mode: ☎ ▦ ∿ # # ∿ ▦ ∿

# *	▦ 1..4	1	∿	▦	∿
	Select Bell Push from 1 to 4	Confirm entry with „1"	Neutral Tone	Enter the extension number as allocated in TK-Suite	After approx. 20 sec. positive confirmation tone

You may enter subsequent entries.

Door Opener (Remove Restriction)

For security reasons the door opener cannot be operated when the call originates from a telephone extension. (unauthorised opening) You may remove this restriction.

Enter Programming Mode: ☎ ▦ ∿ # # ∿ ▦ ∿

# * 0 4	∿	▦ 1 = allow 2 = restrict	∿
	Neutral Tone		Positive Confirmation Tone

Set Timer for Door Opener

You can set the timing for the door opener between 1 and 9 seconds. In default the time is set to 3 seconds.

Enter Programming Mode: ☎ ▦ ∿ # # ∿ ▦ ∿

| # * 0 5	∿	▦ 1..9	∿
	Neutral Tone	Time from 1 to 9 seconds	Positive Confirmation Tone

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Ringing Duration to Extension

The time the door phone is able to ring an extension can be set between 1 and 99 seconds. In default the time is set to 30 seconds.

Enter Programming Mode: ☎ ▤ ∿ #|# ∿ ▤ ∿

#|*|0|8   ∿   ▦ 01..99   ∿

Neutral Tone   Time from 01 to 99 seconds   Positive Confirmation Tone

Set Call Duration

The call duration can be set between 1 and 9 minutes. In default the unit is set to 1 minute.

Enter Programming Mode: ☎ ▤ ∿ #|# ∿ ▤ ∿

#|*|0|7   ∿   ▦ 1..9   ∿

Neutral Tone   Time from 1 to 9 minutes   Positive Confirmation Tone

Select Door Phone Operation

With this setting you can select if the speech path to the door phone is automatically being established after answering the call, or only after a digit is has been pressed. The default setting is answer the door phone after a digit has been pressed.
NOTE: If you have selected automatic connection then you may leave the field ¨ Digit for Speaking¨ in TK Suite blank.

Enter Programming Mode: ☎ ▤ ∿ #|# ∿ ▤ ∿

#|*|7   ▦ 1 = automatic   ∿
                0 = after pressing digit

select option   Positive Confirmation Tone

Calibrate Door Phone

In order to guarantee an optimal speech quality with AGFEO Telephone Systems the door phone TFE2 and TFE4 can automatically adjust to the relevant telephone system used .
With the Procedure #|*|0|0 the calibration process will be started. A test tone will be played during which the Talk LED will blink intermittently. This calibration will take approx. 20 seconds. During this time you should not speak into the telephone receiver as this may interfere with the automatic adjustment.

Enter Programming Mode: ☎ ▤ ∿ #|# ∿ ▤ ∿

#|*|0|0   ∿

positive confirmation tone after 20 seconds

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Microphone Sensitivity
Speaker Volume

You may adjust the microphone sensitivity and speaker volume. The sensitivity of the microphone can be set in a range 4 steps, the speaker has a setting range of 32 steps.

Enter Programming Mode:　　☎ ▦ ⁖ #|# ⁖ ▦ ⁖

Press the digit [2] to decrease the microphone sensitivity by one step. You will hear a positive confirmation tone if the minimum setting has been reached.

Press the digit [3] to increase the microphone sensitivity by one step. You will hear a positive confirmation tone if the maximum setting has been reached.

Press the digit [5] to decrease the speaker volume by one step. On reaching the minimum level a positive confirmation tone will be returned.

Press the digit [6] to increase the speaker volume by one step. On reaching the maximum level a positive confirmation tone will be returned.

Change PIN of Door Phone

Enter Programming Mode:　　☎ ▦ ⁖ #|# ⁖ ▦ ⁖

#|✳|8|8	⁖	▦ Enter a new 4 digit PIN	⁖	▦ Confirm the new 4 digit PIN	⁖
	Neutral Tone		Neutral Tone		Positive Confirmation Tone

Resetting the Door Phone to Default

The unit may be reset to the preset default setting.

Enter Programming Mode:　　☎ ▦ ⁖ #|# ⁖ ▦ ⁖

#|✳|9|9	⁖
	Special confirmation Tone

Connect Additional Door Bells

You may connect a door bell either to the 12 V output contact or potential free relay contact of the TFE 2 door phone only. To operate a door bell on the potential free relay contact you will need additional power for the supply to the door bell.
In default the 12 V output is set to door. The potential free relay contact will operate once the first – or second bell push is pressed. If the 12 V output is set to ″external Bell″, then this will operate once the first bell push is pressed. The potential free relay contact will operate on pressing the second bell push.

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Change Operation of 12 V Output

Enter Programming Mode: ☏ ⌨ ∿ #│# ∿ ⌨ ∿

| # | ✳ | 6 |

⌨ 1= external Bell
    0 = Door Opener

Select mode of Operation

∿

Positive Confirmation Tone

Technical Data

Operating Temperature Range:	-25 Cº bis +55 Cº
Storing Temperature:	-25 Cº bis +70 Cº
Transport Temperature:	-25 Cº bis +70 Cº
Door Phone Cover:	104 x 234 x 17 mm
Surface Mount Frame:	100,3 x 230,3 x 28 mm
Flush Mounted Housing:	79,2 x 206 x 41,9 mm
Load of Potential Free Contact:	12V, 1A
Load of 12 V Output:	12V, 1A
Weight:	486 g
Dampness Protection:	IP 53

Confirmation Tones

Neutral Confirmation Tone
An Entry is Expected

Positive Confirmation Tone
The Program Command has been successful

Negative Confirmation Tone
Error in Programming, Entry No Set

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: TFE 2

Declares that the Product:
Déclare que le Produit:

     Type: **Türfreisprecheinrichtung**

     Model: **TFE 2**

     Components:

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

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

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

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

und dass die folgenden harmonisierten Normen angewandt wurden:

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

EN 55022/2003
EN 55024/2003
EN 60950/2001

Bielefeld, 13. Mai 2005

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

Name und Unterschrift
Name and Signature Nom et Signature

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

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: TFE 4

Declares that the Product:
Déclare que le Produit:

Type:	**Türfreisprecheinrichtung**
Model:	**TFE 4**
Components:	

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

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

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Bielefeld, 13. Mai 2005

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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: Steckernetzteil TFE 2/ TFE 4

Declares that the Product:
Déclare que le Produit:

Type:	Steckernetzteil TFE 2/ TFE 4
Model:	Steckernetzteil TFE 2/ TFE 4
Components:	

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

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

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

EN 55022/2003
EN 55024/2003
EN 60950/2001

Bielefeld, 6. Juni 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

The crossed out wheeled bin on the product means that this belongs to the group of Electro- and electronic apparatus.

In this context you are directed by the European regulation to dispose of used apparatus
- at the point of buying an item of equal proportion / value
- at the local available collection point for disposal
With this you will participate in the reuse of material and valorisation of disused electric- and electronic apparatus, which otherwise could be a health hazard and be negative to the environment.

CE