



## Operating instructions

**elmeq ICT**

**English**

## Declaration of conformity and CE marks

This device meets the requirements of the following EC directive R&TTE 6/3/EG:



»Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity«.

You can also request this EC declaration of conformity at the following Internet URL: <http://www.funkwerk-ec.com>.

The declaration of conformity is provided on the next-to-last page of this operating manual.



The waste container symbol with the "X" through it on the device indicates that the device must be disposed of separately from normal domestic waste at an appropriate waste disposal facility at the end of its useful service life. You will find additional information on an individual returning of the old appliances under [www.funkwerk-ec.com](http://www.funkwerk-ec.com).

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## Description

The PABX is an ISDN telecommunications system for interfacing with the Euro ISDN (DSSI) protocol (DSS1). The PABX is provided with external ISDN connections, which are configured for interfacing to the ISDN connections of the network service provider. Depending on the type of PABX, ISDN connections can be set as required as internal or as external ISDN connections. You can program the type of connection for the external ISDN connection either as a multipoint connection (MSN), or as a point-to-point connection (DDI). Depending on the type of PABX, up to eight analog terminals can be connected (base model). It is also possible to use door phone units and to implement external music on hold. Module slots are available for ISDN- UP0- and a/b connections, and also an «extension for the elmeg ICT880» and an «extension for the elmeg ICT880-rack». Such an extension has its own ISDN and analog connections. Further modules can be mounted. Assignment of internal extension numbers is freely configurable between 0...9999 (with a point-to-point access the destination of a direct dial-in number). The features provided for analog terminals can only be used with terminals which use dtmf dialing and which are equipped with a flash button. Flash duration detection can be set by configuration.

Analog devices, that use pulse dialing can use neither functions nor codes. Please note that the buttons on some ISDN terminals available on the market may limit the use of the features provided by the PABX system.

All terminal devices connected to the system must be »TC Terminals Guideline« or »R&TTE Guideline« approved.

These operating instructions describe only the most important routines for using the PABX. Detailed information and documentation can be found in the description of functions on the supplied CD-ROM.

## Safety notes

### Important notes for using the PABX system

- Unauthorized opening of the PABX and improper repairs may result in risk of injury for the user.
- Unplug the 230 V AC connector plug before removing the enclosure cover and working on the cable terminal bay. Replace the cover before reconnecting the 230 V AC connector.
- Do not expose the inside of the PABX to any liquids. This would pose a risk of electrical shock and can also destroy the PABX.
- You should not connect or disconnect any lines to/from the PABX during thunderstorms.
- Only terminals with SELV and/or which comply with ETS 300047 may be connected to the PABX system The normal use of authorized terminal devices fulfills this regulation.
- Find an appropriate installation location. The distance from the network termination (ISDN connection) of your service provider and the 230 V AC outlet should not exceed 1.5 meters.
- A ground (waterpipe, heating system pipe or an earth bonding conductor for the house wiring system) should be located near the installation location of the system.
- The PABX is powered by a 230 V AC AC utility outlet. Please ensure that the electrical outlet (grounding or outlet) for the PABX (and for additional devices where required) is installed such that it is freely accessible at all times and that it is installed by a qualified electrician to prevent personal and material risks. Where at all possible, provide a separate power circuit for the 230 V connection of your PABX system as this protects it against failure and ensures continued operation in the event of short-circuiting of other household appliances.
- We recommend installing an overload protection to protect your PABX from overvoltage which can sometimes occur during thunderstorms For further information please contact your local electrician.
- To prevent mutual interference, do not install your PABX system in the immediate vicinity of electronic devices such as stereo equipment, electric office equipment or microwave units. Avoid installing your PABX near sources of excessive heat, e.g. radiators or in rooms with excessive humidity. The ambient temperature must not exceed 40° C (50° C with rack systems).

### Cleaning

You can clean your PABX without any difficulties. Use a slightly moistened cloth or an anti-static cloth for this. Do not use any solvents! Never use a dry cloth; electrostatic charges could result in faults or malfunctions in the electronics. It is essential that no liquids penetrate into the inside of the PABX, as this could destroy the device.

## Loss of power

On loss of power (230 V AC power supply) the PABX is not operational, meaning that you can make neither internal nor external calls. An ISDN terminal with emergency power capabilities can be operated via the additional emergency service module (NSP module).

On return of power, functions which have been configured by the user, e. g. internal and external connections, are not active. The features configured using setup programming are unaffected by a loss of power.

## Symbols

Please note that: Different terminal devices may not signal the same tones or have the same ringing signals or operating procedures. For further information on clock frequency and length, please refer to the description of functions on the CD.

### Symbols used



Lift up the handset of your telephone.



This symbol indicates the call status. You have lifted the handset of your telephone.



Replace the handset of your phone in the carriage, or the telephone is idle.



Indicates signaling at a terminal device, e.g. your phone rings.



You can dial the desired number.



One of these symbols indicates that you should dial the digit shown, or a certain character.



These symbols indicate a selection of digits or characters from which you can choose the appropriate one.



This symbol prompts you to select a certain digit or character from a list or table.



Prompts you to press the flash key (signal key).



Indicates that an acknowledgement signal can be heard in the handset.



Indicates a conference call.

## Operation

For a description of the features please refer to the user information on the CD.

Not all of the performance features described here may be implemented in the ISDN standard connection supplied by your network service provider. Contact your service provider to determine which features come standard with your ISDN access and which ones you must apply for separately.

### Making phone calls

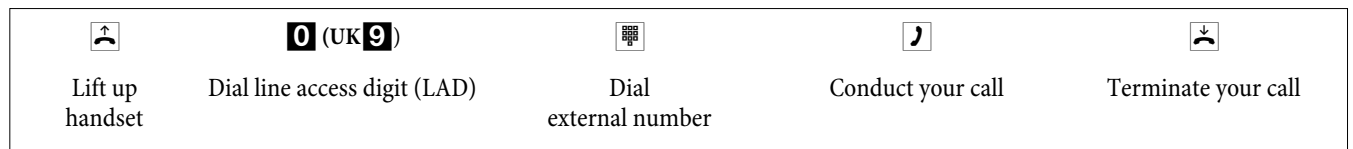
Some terminal devices are able to use their own special procedures for the functions described as follows. Refer to the operating instructions for the terminal device being used for detailed information.

Only telephone connections, i. e. calls between subscribers, are presented in the following usage procedures as examples. For analog telephones, these functions are only described for dtmf-dialing terminal devices equipped with a flash key. The tones and signals described as follows are heard when using analog telephones. These tones may be different for ISDN telephones and analog telephones which generate their own dial tones. Other information may also be shown in the display of these telephones.

Please note that ISDN terminal devices active at the ISDN connection may not have the same signals, ringing cycles or operating procedures as the internal terminal devices for the PABX system.

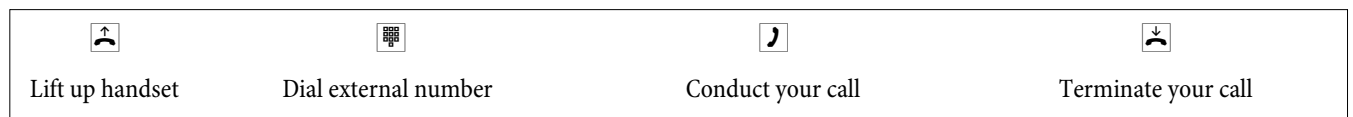
### Calling external parties

#### Making external calls without automatic exchange line acquisition



If you hear the busy signal after dialing the first 0 (UK 9) your telephone either does not have authorization for making external calls, or the external ISDN connection is busy.

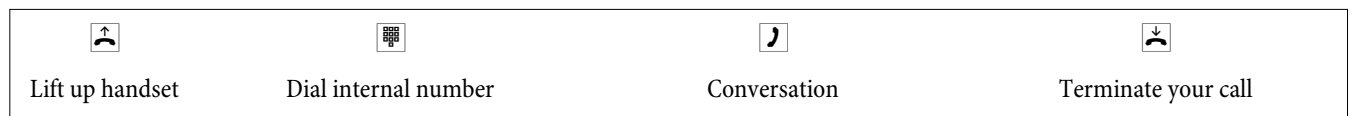
#### Making external calls with automatic exchange line acquisition



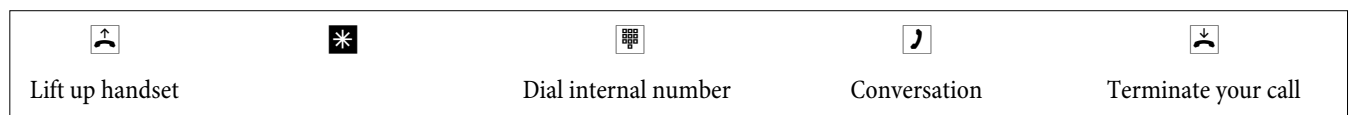
### Making internal calls

All phone calls, fax transmissions or data transmissions that take place between internal analog and ISDN terminal devices are internal connections for which no charges are billed.






#### Making internal calls without »Automatic exchange line acquisition«







#### Making internal calls with »Automatic exchange line acquisition«



### Specific trunk group assignment

	<b>* 8</b>				
Lift up handset	Code number	Select trunk group (0...8)	Dial external number	Conversation	

### Accepting Calls



			
Your phone rings	Lift up handset	Conversation	Terminate your call

### Accepting Calls (Pick up)



#### Picking up calls from within the group

Picking up a call is possible only within the pick-up group to which your terminal device has been assigned via configuration.

A telephone near you begins ringing. You would like to accept the call at your own phone.

	<b>* 0</b>	
Lift up handset	Take call	Conversation

#### Picking up a call from the answering machine

	<b>* 0 / # 0</b>	
Lift up handset	Take call / conversation from the answering machine	Conversation

#### Picking up calls for a specific subscriber

Picking up of calls for a specific subscriber applies to the entire pabx system and is not bound to groups.

	<b>* 1</b>		<b>#</b>	
Lift up handset	Dial this code	Select internal subscriber		You can conduct the call from your own telephone.

### Automatic Call-back on Busy / on No Answer

This function can only be used by telephones that permit suffix dialing! Automatic call-back from an enquiry call is not possible.

External Call-backs on busy are deleted after a period defined by the exchange.

### Configuring call-back for analog telephones




	<b>* 4 0</b>		
Internal or external subscriber is busy or does not answer		Ack. signal	Replace handset

When the subscriber that was called hangs up his/her handset your telephone will ring.  
When you lift up your handset the subscriber for which call-back is active is called. If the party answers you can conduct your call.

### Configuring »call-back on busy« for ISDN telephones

This performance feature is supported by the PABX for ISDN telephones at the internal ISDN connection. Please refer to the operating instructions for your ISDN telephone for proper use.




### Configuring »call-back on No Answer« for ISDN telephones

	<b>* 4 0</b>		
Internal or external subscriber does not answer		Ack. signal, voice announcement or information on display	Replace handset

When the subscriber that was called hangs up his/her handset your telephone will ring.  
When you lift up your handset the subscriber for which call-back is active is called. If the party answers you can conduct your call.



### Canceling automatic call-back for analog telephones

Analog telephones use this procedure for canceling internal call-backs on busy and no answer.





	<b># 4 0</b>		
Lift up handset	Cancel call-backs	Ack. signal	Replace handset

### Canceling automatic »Call-back on no answer« for ISDN telephones

Internal call-back on no answer is canceled with ISDN telephones using the following procedure.

	<b># 4 0</b>		
Lift up handset	Cancel call-backs	Ack. signal	Replace handset



### Defining your own number for the next call

	<b># 8</b>			
Lift up handset	Code number	Select external ISDN connection (1...8, 1= S2m)	Index (0 ... 9)	Dial number

### Temporarily suppressing transmission of your own number during as outward





This feature must be applied for at your network service provider.

Transmission of the caller's own number is suppressed using the following procedure with analog terminal devices. Please refer to the operating instructions for ISDN terminal devices on how to initiate this feature.





	<b>* 5 9 4</b>	
Lift up handset	Dial this code.	Dial number

### Switching call authorization for the next call

Switching call authorization (from the operator's place only)


	<b>* 5 9 5</b>		<b>#</b>		
Lift up handset	Dial this code.	Select the subscriber		Ack. signal	Replace handset

Switching subscriber's authorization in enquiry call (from the operator's place only)




	<b>R</b>	<b>* 5 9 5</b>		<b>#</b>		
Conversation	Start enquiry call	Dial this code.	Select the subscriber		Ack. signal	Replace handset

### Bundle reservation

#### Activating line reservation

	<b>* 4 0</b>				
You hear the busy signal.		Ack. signal	Replace handset	The noted external ISDN connection that was busy becomes available.	Lift up handset

#### Deleting line reservation





	<b># 4 1</b>		
Lift up handset		Ack. signal	Replace handset

### Speed dialing from the PABX telephone directory

	<b>* #</b>			
Lift up handset		Select speed dialing index (000 ... 999)	Subscriber is called	Conversation

### Voice announcement





A voice announcement extension can be reached by internal extensions only.

			
Lift up handset	Internal number of the voice announcement extension	Voice announcement	Terminate voice announcement

## Paging




Refer to the operating instructions for your telephones whether the phones support the paging feature.

### Sending a paging

	<b>* 5 4 0</b>			
Lift up handset		Internal or team number	Ack. signal	paging

### Enable / Inhibit paging

You can enable or inhibit the sending of pagings to your telephone. If you have disabled pagings being sent to your phone, the caller that is attempting to send a paging to you will hear the busy signal.



	<b>* / #</b>	<b>5 9 1</b>		
Lift up handset	Erase paging / Inhibit paging		Ack. signal	Replace handset

## Room Monitoring




This feature can not be used in conjunction with enquiry call, call forwarding or team call functions.

Room monitoring is deactivated after each pabx configuration and must subsequently be enabled and configured once again.

### Enabling room monitoring for an internal telephone

	<b>* 5 9 3</b>		
Lift up handset		Ack. signal	Do not replace handset /Do not deactivate hands-free calling

### Room monitoring from an internal telephone

			
Lift up handset	Dial the number of the telephone to be used for room monitoring	Ack. signal	Room monitoring is activated

### Room monitoring from external telephones

You are at an external telephone.




Lift up the handset of the phone from which you wish to conduct room monitoring and dial the external number to which the service number for the PABX is assigned.

If remote access has been enabled and possible at this time you will hear the special dial tone of your PABX. Set your phone to DTMF dialing, or use a DTMF manual transmitter.

				
Enter PIN 2	Ack. signal	Dial the number of the telephone to be used for room monitoring	Ack. signal	Room monitoring is activated

To end room monitoring, hang up the handset of the external telephone.





### Malicious Call Identification (MCID) (Tracing)

	<b>* 5 1</b>		
Ongoing call, or caller hangs up		Ack. signal	Replace handset

**Attention:** Only hang up the handset after you have entered the code for tracing the caller and hear the positive acknowledgement signal.

### Allocating Project Numbers





#### Project number for call you initiate

	<b>* 5 0</b>		<b>#</b>		
Lift up handset		Enter project number (max. 6-place)		Ack. signal	Dial number

#### Project number for external call to ISDN terminal device

You can use this performance feature at an ISDN terminal if your ISDN terminal device supports the function »Net direct« (Keypad) during an ongoing call.





You are conducting a call and wish to register it for a project.

	<b>* 5 0</b>		<b>#</b>		
Conversation		Enter project number (max. 6 digits)		Ack. signal	Continue call




#### Project number for an external call

You can use this feature at an analog or an ISDN terminal device if your ISDN terminal does not support the function »Net direct« (keypad) during an ongoing call.




You are conducting a call and wish to register it for a project.

	<b>R</b>	<b>* 5 0</b>		<b>#</b>		<b>R</b>	
Conversation			Enter project number (max. 6 digits)		Ack. signal		Continue call

### Keypad Function (»Net direct«)

	<b>0 (UK 9)</b>	<b>* or #</b>		
Lift up handset	Dial line access digit	Initiate keypad function	Enter code numbers	Replace handset

### Sending a fax from a multi-function terminal

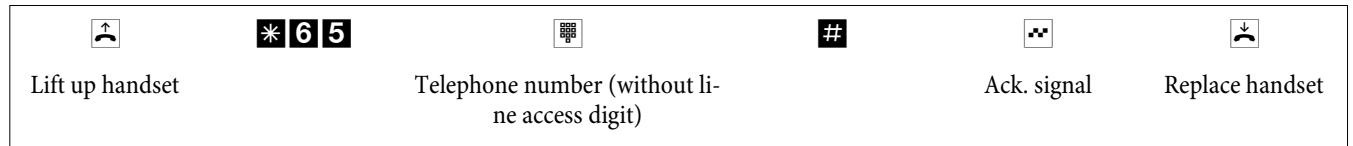
	<b>* 7 7 3</b>		
Lift up handset	Enter code number for fax group 3	Dial external number	

## Direct call

### Making calls with the direct call activated

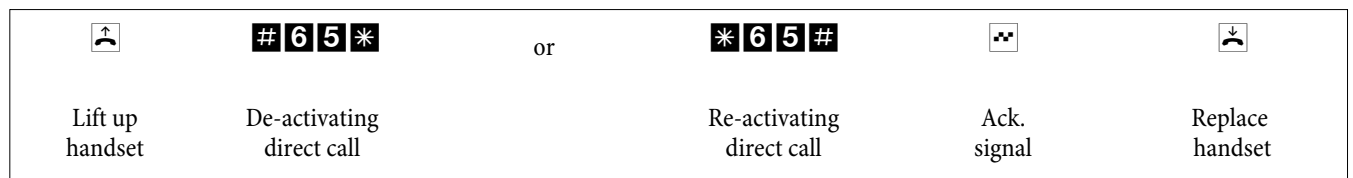


### Entering and activating a direct call number



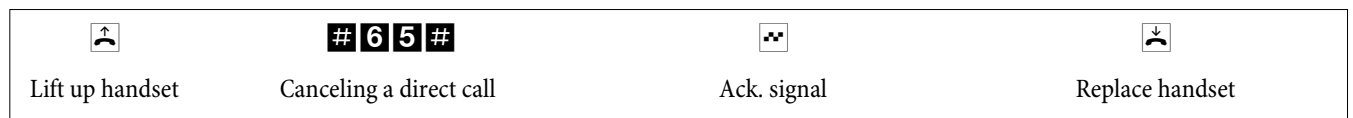
Now, when you lift up your handset the direct call number will be dialed after the specified time (Default setting: 5 seconds).

### Activate/deactivate direct dialing



The numbers stored in the PABX for direct calls are retained even when the direct call function is deactivated.







### Deleting a direct call number (phone number)



The stored direct dial-in number is deleted.

## Enquiry Call


You can call another party at any time during an ongoing call.

-  You are conducting a call.  
You would like to call another party.
  -  Press the R key.  
You will then hear the internal dial tone.
  -  If you wish to speak to an external party, dial 0 first.  
If you hear a busy signal after dialing 0, either your telephone does not have proper authorization for an external call, or the line is busy.
  -  Dial the number of the party you wish to reach.  
You hear the ringing tone in the handset.  
The other party is being called.  
The party being called lifts up the handset of his/her phone.
  -  Conduct your call.  
To end the enquiry call press the Disconnect key on your ISDN phone.
- or
-  The connection put on hold is terminated. The active connection remains.



**R 1** The active connection is terminated and you return to the call that was previously put on hold.

 Continue with your call.


### Call hold in system park

 You are conducting an external call. You want to place this call in a system parking place.


**R** Press the R key. You will hear the internal dial tone.


  
 Dial any one of the 10 configured internal extension numbers or the fixed code **\*596**. You will hear the positive acknowledgement signal.


If you hear the busy tone, dial the next configured internal extension number

 Replace the handset, the external call is put on hold in the waiting loop.

### Call recovery from system park

 You wish to recover a call from system park..

 Dial any one of the 10 configured internal extension numbers or the fixed code **\*596**.

 You have accepted the call.


### Call Waiting

During an ongoing call you can accept, or refuse, a waiting call at any time.


#### Enable / Inhibit Call Waiting for a Further Call

	<b>*</b> / #	<b>5 8</b>		
Lift up handset	enable /inhibit		Ack. signal	Replace handset


#### Accepting a waiting call (enquiry call with waiting caller)


 You are conducting a call.  
A second party calls you.  
You will hear the call waiting signal.


**R 2** Dial this code.


 You will be connected with the waiting party. Your first call is put on hold (see »Enquiry call«). For further procedures refer also to »Broker's call« or »Three-party conference call«.

#### Accepting a waiting call


 While speaking to someone, you are hearing the call waiting signal.

 Replace handset (your first call is terminated).

 Your phone rings.

 Lift up the handset of your phone. You will be connected with the waiting party.



#### Refusing a waiting call

 You are conducting a call.  
A second party calls you.  
You will hear the call waiting signal.

**R 0** Dial the code for refusing the waiting call. The caller will then hear the busy signal.

## Transferring the existing call using analog telephones




If you hear the call waiting signal while engaged in a call, you can accept that call and transfer the existing one.

-  You are conducting a call. You hear the call waiting signal.
- R 5** Dial this code.
-  Dial the number of the party you wish to transfer the existing call to.
- #** Terminate your input.  
You will be connected with the waiting party.

## Transferring calls with / without advance notice





### Transferring calls internally without advance notice

You can transfer calls when you dial the number of the internal party and then hang up the handset. The internal party is then called and can take the call when he/she lifts the handset.

-  You are conducting an external call.
- R** Press the R key.  
You will then hear the internal dial tone.
-  Dial the number of the internal party to whom you wish to transfer the call.  
You hear the ringing tone in the handset.  
The internal party is being called.  
If you hear the busy signal press the R key again to retrieve the call that is on hold.
-  Replace the handset. The other party is being called. The party being called lifts up the handset and conducts the external call. If the called party does not lift up his/her handset you will be called back at your telephone after around 30 seconds.

### Transferring calls with advance notice


You wish to transfer an internal or external call to another internal party and speak with that party beforehand.

-  You are conducting an internal or external call. You wish to transfer the call to another party.
- R** Press the R key. You will hear the internal dial tone.  
If you hear the busy signal, press the R key again to retrieve the call.
-  Dial the number of the party to whom you wish to transfer the call.  
You hear the ringing tone in the handset.  
The internal party is being called.  
The party being called lifts up the handset of his/her phone.
-  Conduct this internal call.  
Tell your internal partner that you wish to transfer the call currently on hold to him/her.
-  Replace the handset.  
The other internal party can then continue with the call.

## Explicit Call Transfer (ECT)


### Connecting calls

Please note that ISDN terminal devices can only utilize the feature »Connect« via a special key or menu function. The following procedure applies only to analog telephones.


-  You are conducting a call with party 1.  
A further call is signaled, for example by call waiting.
- R 2** Dial this code.  
Party 2 answers; you can speak with Party 2 and Party 1 is put on hold.


- R 4** You would like to connect the two parties with one another.  
Dial the corresponding code.  
The two parties are then connected. The charges for the connection are billed to the party who established the connection.

### Broker's Call

-  You are conducting a call and wish to speak to a further party, without the first caller being able to hear your conversation with the second caller.

- R** Press the R key.  
You will then hear the internal dial tone.

-  If you wish to speak to an external party, dial **0** (UK **9**) first.  
Dial the number of the party you wish to reach.  
You hear the ringing tone in the handset.>R>The other party is being called.  
The party being called lifts up the handset of his/her phone.

-  You are conducting a call.  
The first call is put on hold.

- R 2** Dial this code to return to your first caller; the second party is put on hold. You can then use this code to switch back and forth between the two callers.

or


- R 0** You can end the call that is on hold.  
Dial this code.

or

- R 1** You can end the current call.  
Dial this code.


- If you switch back and forth between an internal caller and an external party (broker's call) and then hang up your handset, your call is terminated and the two callers will be connected with one another!
- If you switch back and forth between two external parties (broker's call) and then hang up your handset, the current call is terminated and the caller on hold will call you by way of the »Call-back« function.
- If, during a broker's call, you press the R key and then dial 4, the two external parties are connected with one another and your call with both of the external parties is terminated. The charges for the call that you initiated will be billed to you.


### Three-party Conference Call

-  You are conducting a call with one party and wish to include a further party in the call.


- R** Press the R key.  
You will hear the internal dial tone.


If you wish to speak to an external party, dial 0 first.

-  Dial the number of the party you wish to reach.  
You will hear the ringing signal in your handset.  
The other party is being called.  
The party being called lifts up the handset of his/her phone.


-  You would like to include this party in the first call.

- R 3** Dial this code.

-  Conduct your three-party conference call.

-  You would now like to exclude the party that you first brought into the conference call from further conversation This caller then remains on hold in an enquiry call.

- R 2** Dial this code.





 You can then continue your call with the second party. The first party is on hold.

The conference is ended when you hang up your handset. A party included in the conference call can hang up at any time and the party which initiated the call can then continue the conference with the remaining caller.




### Call forwarding

The PABX recognizes automatically by the length of the number whether call forwarding is to be made to an internal or external subscriber. This is why the destination number for call forwarding to an external subscriber is always input without the line access digit (LAD).

#### Activating call forwarding




	<b>*</b>	<b>6 1 / 6 2 / 6 3</b>		<b>#</b>		
Lift up handset		Call forwarding continuous / Call forwarding on no answer / Call forwarding on busy	Destination number for call forwarding (without LAD)		Ack. signal	Replace handset

#### Deactivating call forwarding




	<b>#</b>	<b>6 1 / 6 2 / 6 3</b>			
Lift up handset		Call forwarding continuous / Call forwarding on no answer / Call forwarding on busy	Ack. signal		Replace handset

### Station guarding

#### Deactivating call signaling for analog terminal devices





	<b>* 5 7</b>	<b>0 / 1 / 2</b>			
Lift up handset		all calls / external calls only / internal calls only	Ack. signal		Replace handset

#### Activating call signaling for analog terminal devices

	<b># 5 7 0</b>			
Lift up handset		Ack. signal		Replace handset

### Call modes (day / night switchable call modes)







#### Activating team call assignment for one team

	<b>* / #</b>	<b>9 3</b>			
Lift up handset	Day / Night call mode	Enter team number (00...39)		Ack. signal	Replace handset

### Switching team call assignment for all teams

		<b>9 3 *</b>		
Lift up handset	Day / Night call mode		Ack. signal	Replace handset

### Doorline phone module (door intercom device) - Switching call modes for a doorbell button

		<b>9 6</b>				
Lift up handset	Day / Night call mode		Select door entry phone (1...4)	Select bell button (1...3 (4))	Ack. signal	Replace handset

### Doorline phone module (door intercom device) - Switching call modes for all doorline phone modules

		<b>9 6 *</b>		
Lift up handset	Day / Night call mode		Ack. signal	Replace handset






### Switching all call modes (all teams and doorline phone modules)

		<b>9 *</b>		
Lift up handset	Day / Night call mode		Ack. signal	Replace handset

## Teams

### Login, logout a member's within a team

Proceed as follows in order to login or logout your phone for a team.


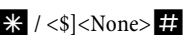


		<b>9 4 3</b>			
Lift up handset	Login / logout		Team number (00 ... 39)	Ack. signal	Replace handset

### Login, logout a member's within all team

Proceed as follows in order to enable or inhibit your phone for all teams.








		<b>9 4 3 *</b>		
Lift up handset	Enable/Inhibit subscriber		Ack. signal	Replace handset

### Activating the operator function for an internal subscriber

		<b>9 1</b>		
Lift up handset	Activate day mode / night mode	Code number	Ack. signal	Replace handset

## Follow me









### Setting up / deleting an internal Follow me






						
Lift up handset	Set up / delete	Follow me	*1)		Ack. signal	Replace handset

\*1) Internal number whose calls are to be forwarded.  
Call will then be forwarded to the specified telephone.

### External activation / deactivation of call forwarding

Lift up the handset of your phone and dial the external number to which the service number of the PABX system has been assigned. If remote access for call forwarding is enabled you will hear the special dial tone for your PABX. Set your phone to DTMF dialing:

							
Enter PIN 2	Ack. signal	Activate		*1)	Activate	*2)	

					
Enter PIN 2	Ack. signal	Delete		*1)	Delete








\*1) Internal number whose calls are to be forwarded

\*2) Destination number for call forwarding (outside number with LAD)


You will then hear the positive acknowledgement signal for about 1 second; the connection is then terminated and you will hear the busy signal.

Replace the handset.

### Block dialing (Austria)

			or				
Lift up handset		Line access digit		*1)	number	*2)	

\*1) If you'd rather use a specific external ISDN connection or bundle, enter the corresponding code.




\*2) Begin dialing by pressing the key . Only now is the call transferred to the exchange office.

## Hotel functions

The PABX features many hotel functions. All of these are controlled from the reception telephone via the PABX's system menu.

### Registering the hotel room status

Dialing a numeric code from the room telephone makes it possible to register the current status of the room. This data collection can be analyzed and displayed only in connection with hotel application software.

	<b>* 7 3</b>	<b>0 / 1 / 2</b>		
Lift up handset		Enter status	Ack. signal	Replace handset.
		0 = Room not clean 1 = Room clean 2 = Room clean and inspected		

## Morning call




### Configuring wake-up calls from the room phone (one-time morning call)

	<b>* 7 2</b>	<b>0 6</b>	<b>3 0</b>		
Lift up handset		Hour	Minute	Ack. signal	Replace handset

**0 6** Enter the hour desired for the morning call between 00 and 23 (in this example 6 am)

**3 0** Enter the minute for the morning call between 00 and 59 (in this example 6.30 am)





### Canceling a morning call

	<b># 7 2</b>		
Lift up handset		Ack. signal	Replace handset

### Programming a morning call using the »Reception telephone«




In addition to configuring wake-up calls using the room phone, wake-up calls can also be defined for several days in advance from the »Reception desk phone«.

### Answering a morning call

			
The telephone in your room rings.	Lift up handset	Music on hold or voice announcement	Replace the handset in order to cancel the morning call.




## Door intercom module

### Making a door interphone call / Opening the door

			<b>R</b>	<b>* 9 9</b>	<b>...</b>
Door entry phone call	Lift up handset	Door interphone call		Code number	

<b>...</b>	<b>1 / 2 / 3 / 4</b>		
	1 = Door opener 1 2 = Door opener 2 3 = Door opener 3 4 = Door opener 4	Ack. signal	Replace handset

## Activating the door opener

	<b>* 9 9</b>	<b>1 / 2 / 3 / 4</b>		
Lift up handset	Code number	Door opener 1/2/3/4	Ack. signal	Replace handset

Note: If a door entry phone call is signaled at a different telephone or if you hear the door bell ring, you can dial the door intercom phone number and pick up the door entry phone call yourself, provided you have the corresponding rights to do so.

## Opening the door using ISDN telephones that do not support suffix dialing:

If you wish to open the door, terminate the door entry phone call and replace  
Lift up the handset again and dial **\*991** to open the door. **\*994**

## Signal input

### Activating/ de-activating signalisation call function

	<b>* 9 5</b>				
Lift up handset		Signal call list 01 ...36	Function 0...2	Ack. signal	Replace handset

Signal call list

The terminal device must have been entered into the list during configuration:

**0 1 ... 3 6** Alarm call list 01...36.

Function:





**0** De-activating signalisation call function.

**1** Activate internal signal call feature.

**2** Activate external call feature.

## Acknowledging an alarm call





An alarm call can be confirmed (acknowledged) at a telephone assigned to the alarm input. If the alarm call is an external call, acknowledgement must be made using a telephone with DTMF capabilities.

		<b>* 5 3 7</b>		
Alarm call signaled	Lift handset		Pos. acknowledgement tone	Replace handset

## Switching contacts

In the event of a loss of power and after a reset the switching contacts are idle.

### Activating/ de-activating switching contacts

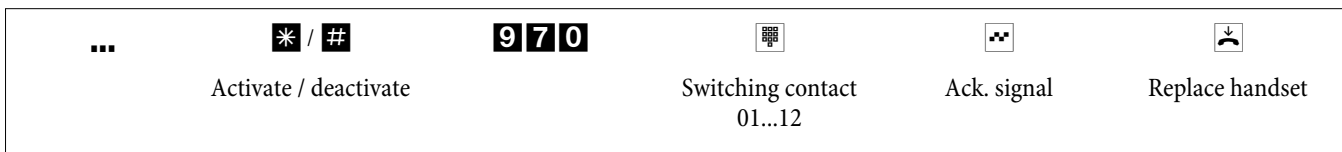
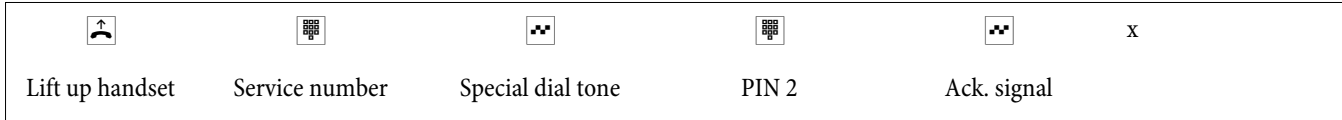
	<b>* / #</b>	<b>9 7 0</b>			
Lift up handset	Activate / deactivate		Switching contact 01...12	Ack. signal	Replace handset

**Switching contact with a button function**

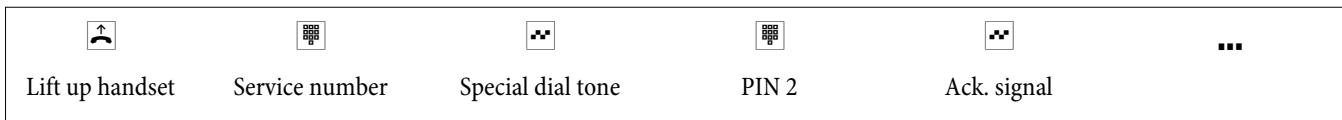


The switching contact closes for the time interval you have programmed (1 ... 999 seconds).

**Remote activation / deactivation of switching contacts**



**Switching contact with a button function (remote)**




The switching contact closes for the time interval you have programmed (1 ... 999 seconds).

## Changed codes

You can program your PABX with individual code numbers for the following features. A number from the PABX's internal phone number plan will then be added to the default code number.

Enter all changed code numbers into the table. Several different code numbers can be used for the features bundle assignment, open enquiry call and activation of a door opener.

Feature	Default code number	Changed code number
Line access digit	<b>0</b> (UK <b>9</b> )	
Picking up calls from within the group	<b>* 0</b>	
Picking up calls for a specific subscriber	<b>* 1</b>  <b>#</b>	
Speed dialing from the telephone directory	<b>* #</b>	
Assignment of project numbers for external calls	<b>* 5 0</b>	
Trunk group assignment (8 code numbers)	<b>* 8</b>	
Open enquiry call (10 code numbers)	<b>* 5 9 6</b>	
Activation of a door opener (4 code numbers)	<b>* 9 9</b>	

The operation principle of the features whose code number has been changed remains as described. You can either use the changed code number (internal extension number) or the code number given in the operating instructions (except for the line access digit).

## Communication costs

The PABX stores communication data for each external call. These data records contain detailed information on a call. For example: Date and time, duration of the call, numbers of the caller and the called party, type of connection, communication costs and possible project numbers.

Incoming calls can be logged in two different ways.

- Only incoming calls with a certain project number are stored.
- All incoming calls are stored.

### Output of call data records

You have two options to output the stored call data records. For example:

- output via the RS232 interface on a printer
- output via the RS232 interface or the USB port on a PC or laptop computer
- Internal ISDN connection
- LAN connection

### Communication cost display

Communication/ conversation cost data can be displayed on terminal devices that support this feature. ISDN and analog terminal devices use different methods for transmitting and displaying communication costs.

## Charge counter




The PABX manages a charge counter for each internal user on the basis of the transmitted charge rate information. The counter logs the costs of all calls. You can use the PABX menu or the charge logger program to display the counter for an internal user. You can also reset the counters.

## Call account (cost limit, pocket money account)

A call charge account can be set up for each internal user. The charge rate units or amounts available to that particular user are defined in this account. If the user uses up his/her allotted units he/she can then only make internal calls. If this limit is reached during an ongoing call, the call can be completed. The user can make external calls again when the amount on his/her account is then increased or the counter is deleted.

## Terminating an Internet connection from the telephone

Using the appropriate code procedure you can discontinue an existing Internet connection from your telephone.

	<b># 6 6 #</b>		
Lift handset	Terminate Internet connection	Pos. ack. tone	Replace handset

## PABX System Menu

A special menu containing functions typical for the system is provided by the PABX. This menu, and the associated performance features, are managed solely in the PABX.

The following features are available in the system menu (examples):

telephone directory for the PABX, Follow me, Direct call, Switching call modes, Cost logging, LCR-Information, Hotel functions

You can select the language of your display provided the desired language has been configured using the telephone directory program.

Refer to the operating instructions of the system telephone being used to find out how to reach the PABX system menu.

## System telephones

Various elmeg system telephones can be connected to the ISDN ports of your PABX, which automatically detects these phones and provides them with the system menu and further specific features.




System phones and (optional) supplementary keyboards can be programmed with function keys. For a description and instructions for programming and use please refer to the operating instructions for the system telephones being used.

## Intercom calls

Intercom calls can be placed to system telephones and to elmeg ISDN telephones.

If an intercom call is not terminated by one of the two users, the connection is terminated automatically after a time defined in the PABX (around 2 minutes).

Enable / inhibit intercom call reception

	<b>* / #</b>	<b>5 9 0</b>		
Lift up handset	Enable intercom calling / Inhibit intercom calling		Ack. signal	Replace handset

## Service

### Configuring features using a telephone

Various settings are protected by PIN1 in the PABX. In the default state, this PIN 1 is set to 0000. Write down your PIN 1 and keep it in a safe place, because, if you forget or lose your PIN 1 you will no longer have access for configuring the PABX. If you do forget your PIN 1, contact your authorized dealer. Remote access to the PABX (remote control) is protected by PIN 2.

Remote access using this 2-digit PIN2 is only possible when this PIN 2 has been changed individually, i. e. that it is no longer in its initial setting of 000000.

A flip-out page at the end of the instruction manual contains all codes for configuring system features via a phone line. Remove this page if you want the codes used exclusively by the system administrator or the dealer service.








After you begin configuration you can set the performance features for your system using the codes described here. The telephone used for programming can not be reached while the system is being configured.

You will hear the positive acknowledgement signal once you successfully conclude configuration for a setting. You can then move on to configure the next setting. If you wait for more than 40 seconds between one entry and another, the PABX will terminate configuration and you will hear the busy signal. All input that you have made up to that point which was concluded with a positive acknowledgement signal will be saved when you hang up the handset. During this period it is important that you do not begin a new configuration of the system, and that power is not interrupted to the system.



### Service access

This feature enables you to have the PABX configured by your dealer's service center or download the current software. You can trigger this function from an internal phone of your PABX or release your PABX for access by an external PC (e. g. your dealer).

#### Outgoing service call (access via 2 B channels)

-  You call up the service center. You are then connected with a service technician who explains the further procedure to you.
-  When requested by the technician you push the R key and then hear the internal dial tone.
-  **7 9 2** Dial this code **\*792**  
If you wish to establish a service connection with the services maintenance and diagnosis, enter the code number **\*794**.
-  Dial the number of the service center.
-  Finish input.
-  You will hear the positive acknowledgement signal.
-  You are then re-connected with the service technician and can continue your call.




#### Outgoing service call (access via 1 B channel)

	<b>*792</b>		<b>#</b>		
Lift up handset		Number for service center		Connection with service center	Replace handset

You will hear the internal music on hold once a connection to the service center has been established. When the data have been transferred the service center will terminate the connection. You hear the busy signal.




#### Terminating an existing incoming service call

You can terminate a connection set up by the service center using the following procedure.

	<b>#792</b>		
Lift up handset		Ack. signal	Replace handset




### Enabling authorization for remote service access

You can release your PABX system for remote access by an external subscriber. Release for remote access is limited to 30 minutes.

	<b>* 7 8 2</b>		
Lift up handset		Ack. signal	Replace handset




### Enabling incoming service calls (without subaddress check)

You can enable the PABX system to receive a dial-in call from an external subscriber. When this feature is configured the PABX system is enabled for 30 minutes.

	<b># 7 8 2</b>		
Lift handset		Pos. acknowledgement tone	Replace handset

### Deleting authorization for remote service access

You can cancel a programmed release for incoming remote access any time you want. However, an existing connection to a service center is not terminated.

	<b># 7 9 9</b>		
Lift up handset		Ack. signal	Replace handset

## Features

Examples of the features and functions supported / offered by your PABX system are listed below. Detailed information and documentation can be found in the description of functions on the supplied CD-ROM.

- Accepting date and time from the exchange
- Answering machine (analog or ISDN device) connectable
- Appointment call / morning call
- Assigning telephone numbers for external calls separately for each internal subscriber
- Assignment of names in the PABX system for subscribers, teams and connections
- Automatic call-back on busy or on no answer
- Block dialing (for analog terminal devices only)
- Broker's call
- Bundle assignment for external ISDN connections
- Calendar (2 calendars with 4 switching times per week day)
- Call authorization (access to the public telecommunications network)
- Call cost account (cost limit, allowance account)
- Call deflection during an ongoing call (CD - Call Deflection)
- Call forwarding (Call rerouting) continuous, on busy or on no answer
- Call forwarding in the exchange office continuous, on busy or on no answer
- Call modes (day/night call modes)
- Call modes for teams
- Call pick-up (Pick up)
- Call signaling (group call: simultaneous, linear, rotating, adding, regular or parallel by time)
- Call waiting
- Calling method configurable for analog terminal devices (dtmf with flash or pulse dialing)
- CCNR per subscriber
- Central / second bell
- Changing code numbers for specific features
- CLIP no screening
- Communication cost display and charge counter of internal terminal devices
- Configuration of system features using a telephone
- Configuring system telephones through the PABX
- Connections for terminal devices (analog, ISDN), PC and Modules
- Configuring the PABX system via ISDN, USB, LAN or RS232 interface
- Country-specific parameters can be set




- Data packet transfer (X. 31)
- Data records for coupled calls
- Defining your own number for the next call
- Dialer protection (unrestricted data)
- Dialling control (barred numbers:10 / enable numbers:60)
- Direct call
- Disable calling line identification (setting in the exchange)
- Disable calling line identification (subscriber-specific setting in the PABX)
- DECT telephony with elmeg DECT multicell module
- Door intercom adapter connectable
- Door intercom device (doorline phone module) connectable via door intercom module
- Emergency call numbers in the PABX (6 numbers)
- Enable paging function and paging reception separately for each internal extension
- Enquiry Call
- Enquiry Call to Enquiry Call
- Enquiry Call, open
- Extended call allocation with point-to-point access
- External line access digit for caller list
- Follow me
- Hotel applications
- Information from the ISDN network on new messages received (MWI - Message Waiting Indication)
- Intercom, intercom call reception separately configurable for each internal subscriber
- Internal or external activation of switching contacts
- Keeping ISDN layer 2 permanently active for each external ISDN connection
- Keypad functions (net direct)
- Least Cost Routing (LCR).
- Least Cost Routing (LCR) with gateway support
- Loss of power:Emergency operation with NSP module
- Malicious caller ID (tracing / MCID - Malicious Call Identification)
- Meter pulse for analog connections (12 kHz or 16 kHz)
- Music on Hold, internal, external or Voice applications
- Number identification (NI) possible for internal subscribers
- Operator functions
- PABX can be used at point-to-point or point-to-multipoint access (also mixed)

- PABX extension modules
- Parking (TP - Terminal Portability) at the internal ISDN port
- PC ports (USB, RS232, LAN) for configuration, or for other applications
- Phone number plan 2-, 3- or 4-place
- Picking up calls from an answering machine
- Picking up calls for a specific subscriber
- PIN (password) required for accessing the PABX
- Programming access to the PABX protected by PIN 1 (4-place)
- Programming automatic exchange line acquisition separately for each extension
- Programming bundle assignment or dedicated bundle assignment separately for each internal extension
- Programming of emergency telephones
- Programming terminal devices for analog connections
- Programming the PABX via ISDN, USB or RS232 interface
- Project numbers / client numbers
- Protection of data link
- Reading and deleting a call forwarding (internal / external)
- Remote access (remote control) for call forwarding, room monitoring and switching contacts
- Remote access protected by PIN2 (6-place) of the PABX
- Remote programming of call forwarding
- Reserving a bundle (ISDN connection)
- Room monitoring from internal and external terminals
- Router-module
- Routing discrimination
- S2M-module
- Service access (remote configuration, remote maintenance, software downloads)
- Setting the date and the time
- Signaling features
- SMS (short messages), enable SMS reception separately for each internal subscriber
- Station guarding (do not disturb)
- Storing communication costs and call data records
- Sub-addressing
- Support for multifunctional devices at the analog ports
- Switching call authorizations (for external calls) automatically
- Switching call authorizations temporarily (booth function)




- Switching calls to a busy subscriber
- Switching contacts available on the doorphone module
- Switchable V. 24 interface for pabx applications
- System menu for the PABX
- System telephones
- Teams Automatic pick-up of call in teams Switching calls within teams
- Telephone directory / Speed dialing from the telephone directory Permit telephone directory use by internal subscribers
- Temporarily suppressing transmission of your own number
- Three-party conference call
- Transfer of calls to a specific team or extension
- Transferring calls with or without prior notice (switching)
- User to User Signalling 1 UUS1
- Variable AC ringing voltage for analog connections (25 Hz or 50 Hz)
- Variable calling cycles for analog subscribers
- Voice announcement before answering
- Voice announcement before answering using the voice announcement module
- Voice announcement without answering (info box)
- Voice announcement with background music
- Voice applications for music on hold, morning call announcements, message texts, Infobox or Voice announcement before answering
- Voice Mail system connectable to analog or ISDN connections
- Waiting loop / waiting circuit
- Wrong number function (transfer of calls to a specific team or extension)

## Configuration using a telephone (administrators)





The following procedure must be performed one time at the beginning of configuration.

	<b>* * *</b>		<b>0 0 0 0</b>	
Lift up handset		Ack. signal	Enter PIN 1	Ack. signal




### Change PIN 1 or PIN 2

<b>9 1 1</b>	or	<b>9 1 2</b>			
Change PIN 1 (4-place)		Change PIN 2 (6-place)	Enter new PIN	Input new PIN (confirm)	Ack. signal


### Configuring call forwarding (1 - immediate, 2 - on busy, 3 - delayed)

<b>7</b>	<b>1 / 2 / 3</b>	<b>0 ... 6</b>	<b>1 ... 4</b>				<b>#</b>	
	Select call forwarding type	Module	Connection	Dial number index	Select service	Ext. number		


### Deleting call forwarding (1 - immediate, 2 - on busy, 3 - delayed)

<b>7</b>	<b>1 / 2 / 3</b>	<b>0 ... 6</b>	<b>1 ... 4</b>			<b>#</b>	
	Select call forwarding type	Module	Connection	Dial number index	Select service		


### Activating Least Cost Routing (LCR)

<b>7 8 1</b>	<b>1 / 2 / #</b>	
Code number	Deactivating Call by Call / Call by Call with rate tables	Ack. signal

### Enabling / inhibiting remote access

<b>7 8 0</b>	<b>* / #</b>	
Code number	Enabling / inhibiting remote access	Ack. signal


### Setting the date and the time

<b>9 8</b>	<b>0 1 ... 3 1</b>	<b>0 1 ... 1 2</b>	<b>0 0 ... 9 9</b>	<b>0 0 ... 2 3</b>	<b>0 0 ... 5 9</b>	
Setting the system clock	Day	Month	Year	Hours	Minutes	Ack. signal




### Resetting communication data output

<b>8 0 9</b>	
Code number	Ack. signal

### Deleting the charge counter for one internal extensions or for all

<b>8 5 0</b>	 or <b>*</b>
Code number	internal number or * for all internal extensions



### Setting up call accounts

<b>8 3 0</b>			<b>#</b>	
Code number	Int. extension number	amount (max. 6-place, with a factor of 100)		Ack. signal


### Deleting call accounts

<b>8 3 0</b>		<b>#</b>	
Code number	Int. extension number		Ack. signal

### Activating / deactivating an extension's call account

<b>8 9 0</b>		<b>* / #</b>	
Code number	Int. extension number	Activate / Deactivate	Ack. signal



### Activating / de-activating communication data output via the serial interface

<b>8 0</b>	<b>* / #</b>	
Code number	Activate / Deactivate	Ack. signal

### Resetting settings to default state (Reset)

<b>9 9 9</b>	
Code number	

### Resetting one internal extension or all

<b>9 0 0</b>	 or <b>*</b>	
Code number	internal number or * for all internal extensions	Ack. signal

### Release time of 5 minutes for logging on a DECT handset

<b>7 8 2 *</b>	
Code number	Ack. signal

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**Konformitätserklärung gemäß dem Gesetz über Funkanlagen und  
Telekommunikationsendinrichtungen (FTEG) und der Richtlinie 1999/5/EG (R&TTE)**

Declaration of Conformity appropriate to the law of radio and telecom terminal equipment (FTEG) and  
Directive 1999/5/EC (R&TTE)

Déclaration de conformité selon la loi sur les équipements terminaux de télécommunication (FTEG) et la directive  
1999/5/CE (R&TTE)

Hersteller /Verantwortliche Person: **ELMEG GmbH & Co. KG Kommunikationstechnik**

Manufacturer / responsible person :  
Fabricant / personne responsable :

erklärt, dass die Produkte Type:

**ISDN-TK-Anlage elmeg ICT46**

declares that the products :

**ISDN-TK-Anlage elmeg ICT88**

déclare que les type de produits :

**ISDN-TK-Anlage elmeg ICT880 / ICT880xt**

**ISDN-TK-Anlage elmeg ICT880-rack / ICT880xt-rack  
plus Module**

Telekommunikations(TK-)endeinrichtung

**TK-Anlagen zum Anschluss an das EURO-ISDN**

telecommunications terminal equipment  
Équipement de terminal de télécommunication

**(DSS1-Protokoll, S0-Schnittstelle, Anlagen- und Mehrgeräteanschluss)**

Verwendungszweck, intended purpose, Le but poursuivi

bei bestimmungsgemäßer Verwendung den grundlegenden Anforderungen des § 3 und den übrigen  
einschlägigen Bestimmungen des FTEG (Artikel 3 der R&TTE) entspricht.

complies with the appropriate essential requirements of the FTEG (Article 3 of the R&TTE) and the other relevant provisions,  
when used for its intended purpose.

est conforme aux exigences fondamentales du paragraphe 3 du FTEG (article 3 du R&TTE) et des autres clauses s'y rapportant.

Gesundheit und Sicherheit gemäß § 3 (1) 1. (Artikel 3 (1) a))

Health and Safety requirements contained in § 3 (1) 1. (Article 3 (1) a))

Santé et sécurité conformes au paragraphe 3 (1) 1 (Article 3 (1) a))

harmonisierte Normen ...

**EN60950:2000**

**(NSR 73/23/EWG & 93/68/EWG)**

harmonised standards ...

**(LVD 73/23/EC & 93/68/EC)**

Normes harmonisées ...

**(Directive Basse Tension 73/23/CE & 93/68/CE)**

Schutzanforderungen in Bezug auf die elektromagn. Verträglichkeit § 3 (1) 2, Artikel 3 (1) b))

Protection requirements with respect to electromagn. compatibility § 3 (1) 2, (Article 3 (1) b))

Exigences des protection concernant la comparibilité électromagnétique, paragraphe 3 (1) 2, article 3 (1) b))

harmonisierte Normen ...

**EN 55024 (1998)**

**(EMV-RL 89/336/EWG)**

harmonised standards ...

**EN 55022/A1 (2001)**

**(EMCD 89/336/EC)**

Normes harmonisées ...

**(Directive EMC 89/336/CE)**

Anschrift **ELMEG GmbH & Co. KG**

address **Kommunikationstechnik**

Adresse **Vöhruher Straße 30**

**D-31228 Peine**

+ TK-Nr. / N° de télécommunication

fon: **+49 5171 909-0**

fax: **+49 5171 909-333**

e-mail **entwicklung@elmeg.de**

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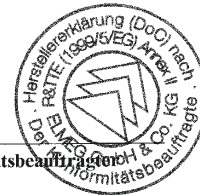
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