

Weatherproof VoIP-telephone

FernTel IP / IP150



Short manual



Brand names are used with no guarantee that they may be freely employed. Almost all hardware and software designations in this manual are registered trademarks or should be treated as such.

All rights reserved. No part of this manual may be reproduced in any way (print, photocopy, microfilm or by any other means) or processed, duplicated or distributed using electronic systems without explicit approval.

Texts and illustrations have been compiled and software created with the utmost care, however errors cannot be completely ruled out. This documentation is therefore supplied under exclusion of any liability or warranty of suitability for specific purposes. FHF reserves the right to improve or modify this documentation without prior notice.



Note

Please read the operating manual carefully before installing the device.

This is only a short manual. The most important operating procedures and the mounting and installation instructions are part of this document. For the complete configuration and operating of all features the knowledge of the complete manual is necessary.

The complete manual is attached on the CD.

Please check the contents of the box for completeness.

Copyright © 2006
FHF Funke + Huster Fernsig GmbH
Gewerbeallee 15 – 19
45478 Mülheim an der Ruhr
Tel +49 (208) 8268-0
Fax +49 (208) 8268-377
<http://www.fhf.de>

Table of Contents

1	VoIP-Telephone FernTel IP / IP150	4
1.1	FernTel IP / IP150 Keypad Description	4
1.2	Display	6
1.3	Mounting and Installing	7
1.3.1	Wall Version	7
1.3.2	Table Version	8
1.3.3	LAN-Connections	9
1.3.4	General	10
1.4	As-Delivered Condition	10
1.5	EMC-Directive	10
2	Operating Manual	11
2.1	Operating Basics	11
2.1.1	Adjusting the Volume.....	12
2.2	Call Functions	12
2.2.1	Answering Calls	12
2.2.2	Terminating a Call.....	13
2.2.3	Making Calls	13
2.2.3.1	Single Dialling.....	13
2.2.3.2	Block Dialling	13
2.2.3.3	Dialling during active Connection	14
2.2.4	Redialling	14
2.2.5	Call Back	15
2.2.6	Muting	15
2.2.7	Making second Call	16
2.2.8	Switching	17
2.2.9	Transferring a Call	17
2.2.10	Transferring a Call directly.....	18
2.2.11	Initiating a Conference.....	18

1 VoIP-Telephon FernTel IP / IP150

1.1 FernTel IP / IP150 Keypad Description

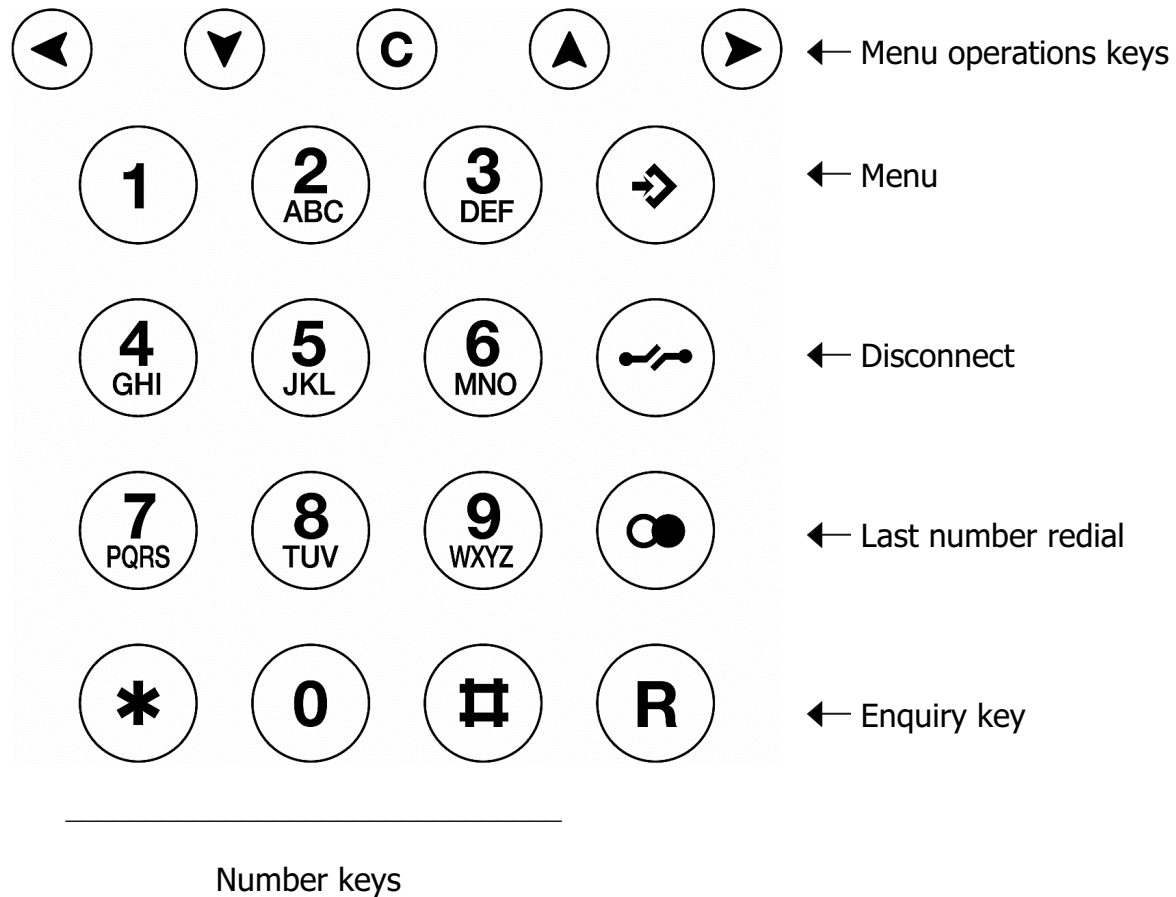


Figure 1: Keypad of the VoIP-telephone FernTel IP / IP150







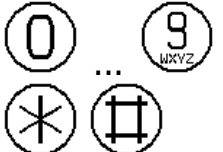

Symbol	Description and key function
	The Menu key is used to open the main menu or save changes.
	The Disconnect key is used to terminate calls or any menu.
	The Enquiry key is used to enable the "Hold" and "Switch" functions. In idle mode, the Enquiry key is used to call up the list of missed calls.
	The Redial key is used to select the list of 100 phone numbers last dialed.
	Arrow keys are used for navigation in the menu, browsing in the telephone directory and for volume control. The volume can only be adjusted during a call.
	The Asterisk key also serves as a mute key. During a call, a longer press switches the microphone off or on.
	Digit keys for entering phone numbers The Asterisk and Hash keys have special functions for touchtone dialling.
	The Clearing key is used in input mode to delete the characters left to the cursor.

Table 1: Keys and function elements FernTel IP / IP150

1.2 Display

The display of the VoIP telephone FernTel IP / IP150 has 6 lines with max. 21 characters and a state line for showing information.

The name and telephone number of the current registration is displayed in the first line.

The middle lines display special information relating to the condition.

The date, time and registration status is displayed in the last line.

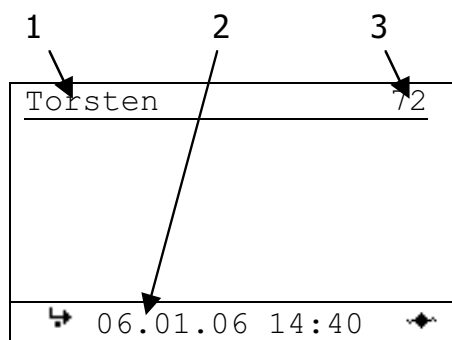


Figure 2: Display of the VoIP telephone FernTel IP / IP150

Position	Symbol	Description
1		Name (H.323 or SIP ID or nickname of the PBX configuration)
2		Status line; provides information on the current status of the telephone by means of the following symbols.
	06.01.06	Date
	14:00	Time
	☐	No connection to the gatekeeper
	☑	Connection established to the gatekeeper
	☑ ☑	Connection to the gatekeeper broken. (Both symbols are displayed in mutual change)
	☐	Microphone switched off (symbol flashing)
	☑	Call diversion activated
	☑	Handset activated
	☑	Telephone locked
3		Own call number (E.164)

Table 2: Display contents of FernTel IP / IP150

1.3 Mounting and Installing

1.3.1 Wall Version

Fasten the telephone mount with 4 screws (2). Place the provided washers \varnothing 18 mm under the screw head.

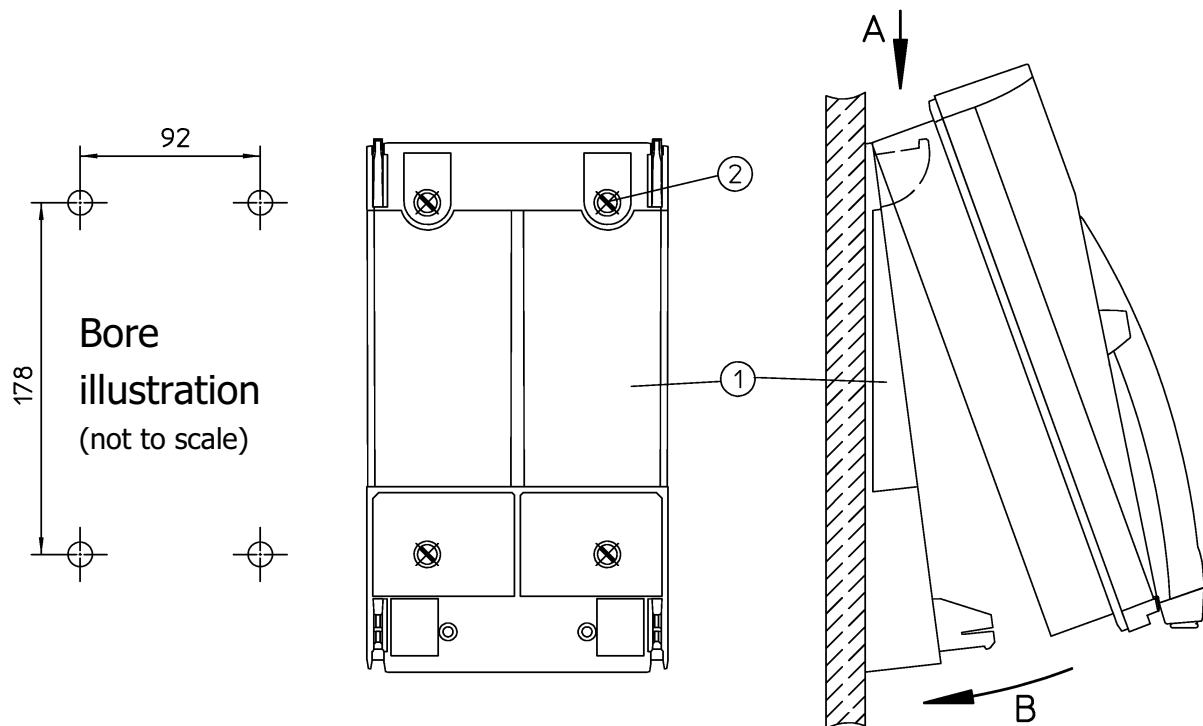


Figure 3: Mounting on a wall

Place the telephone in the upper latches (A), swing it downwards until the lower latches audibly engage (B).

Remove the keypad plate (6), and tighten the two locking screws (3) as far as they will go.

Important: This preserves the IP65 degree of protection.

The security screws may be used only mounting the telephone on a wall.

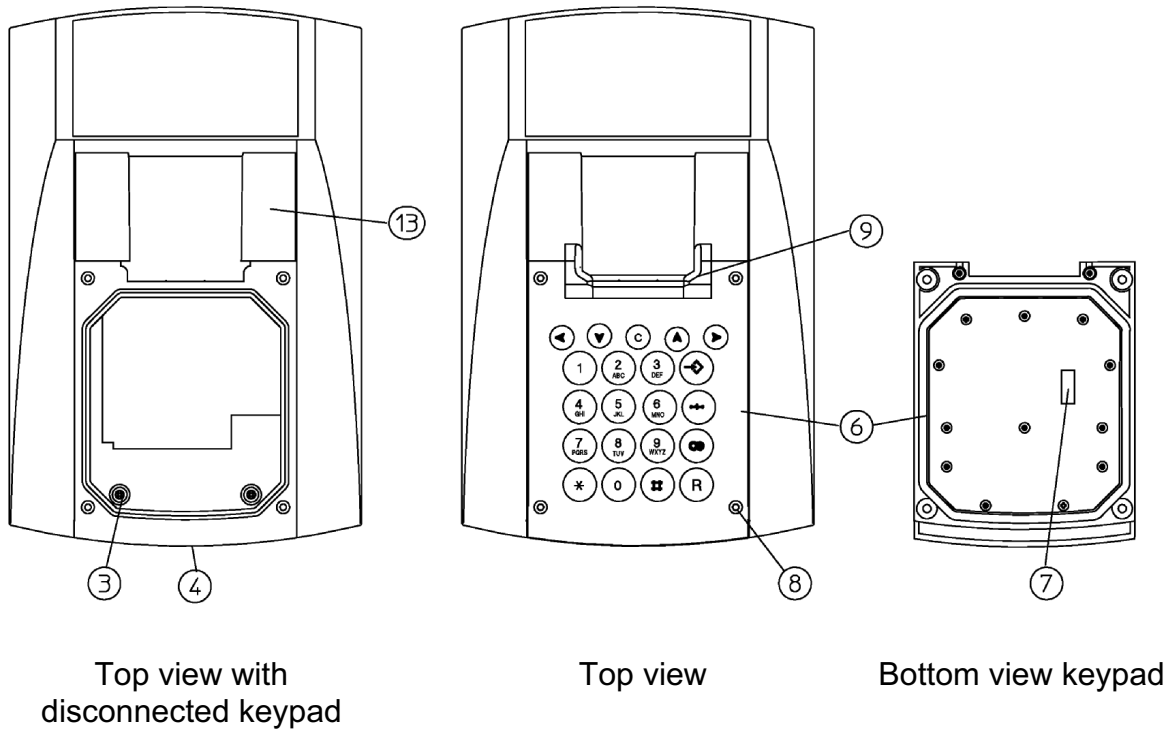


Figure 4: Set view

Plug the ribbon cable onto the pin contact strip (7) of the keypad plate.

Tighten the keypad plate (6) using four screws (8).

1.3.2 Table Version

Place the telephone in the lower latches (A), swing it backwards until the upper latches audibly engage (B).

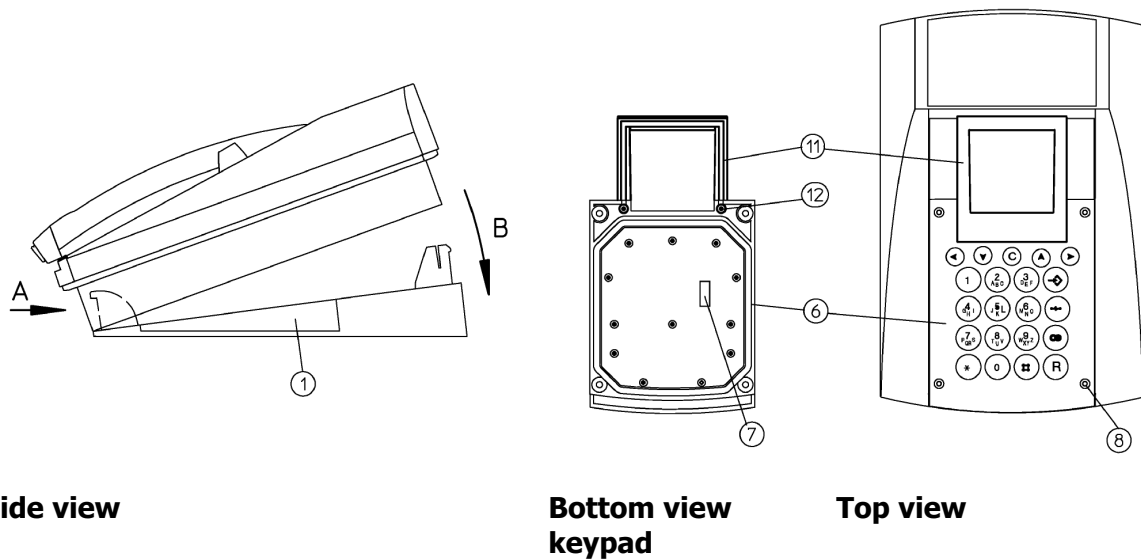


Figure 5: Desktop mounting

The standard handset accommodation (for the wall version) (9) can be replaced for the table version.

After loosening the two screws (12) on the bottom of the keypad plate you can remove the standard handset accommodation.

Fasten the table version handset accommodation (11) to the keypad plate by using the included screws (12).

Plug the ribbon cable onto the pin contact strip (7) of the keypad plate. Tighten the keypad plate (6) using four screws (8).

Lay the telephone cord according to the instructions, in order to prevent accidents.

1.3.3 LAN-Connections

The telephone has 2 LAN-connections

LAN-cable, used for plug into the telephone FernTel IP / IP150, have to be adapted with a connector from Phoenix contact, to preserve the IP65 degree of protection. A LAN cable connector belongs to the as-delivered condition.

The LAN-lead wire has to be connected to the connector (Position 4 in Figure 4). Die LAN lead wire has to be with PoE (Power over Ethernet). The LAN connector at the right side of the telephone can only be used for continuing the LAN, to connect for

example a pc. This connector doesn't support PoE. It is impossible to connect an additional FernTel IP / IP150 directly. The TCP/IP data, sent to the telephone via the connector at position 4 in Figure 4, will not be redirected via the connector at the side of the telephone.

The LAN-connector of the FernTel IP / IP150 at the side has to be closed with the cover mounted to the telephone during time of no use, to preserve the IP65 degree of protection.

1.3.4 General

The receiver is equipped with a leakage field spool for coupling of hearing aids. Users of a hearing aid with inductive receiver may receive the signal from the receiver inset directly.

1.4 As-Delivered Condition

Box contents

The scope of the delivery includes:

- 1 telephone
- 1 telephone mount
- 1 handset accommodation for the table version with 2 screws
- 4 washers Ø 18 mm
- 1 LAN connector from Phoenix Contact, consisting of:
 - o RJ sleeve housing Type VS-08-T-RJ45/IP67, Art.-Nr.: 1688696
 - o Male insert RJ45, CAT5, 8-polig Type VS-08-ST-RJ45/IP67, Art.-Nr.: 1688573
- Short manual
- Manual on CD

Accessories (optional)

- sling holder
- LAN connector from Phoenix Contact

1.5 EMC-Directive

The device complies with the requirements of the new EMC-directive 2004/108/EC, the low voltage directive 2006/95/EC and the R&TTE directive 1999/5/EC.

The conformity with the above directives is confirmed by the CE sign.

2 Operating Manual

2.1 Operating Basics

The keys below the display (⬅️ ⬇️ Ⓞ️ ⬆️ ⬇️) of the VoIP-telephone FernTel IP / IP150 serve menu navigation and for edit field input purposes. These keys are assigned to additional functions, as explained below.

Key assignment in menu:

The function is performed by ...
scrolling upwards	Arrow key up ⬆️
scrolling downwards	Arrow key down ⬇️
one level up	Arrow key left ⬅️
one level down	Arrow key right ➡️
one level up with saving	Menu key ⬇️
one level up without saving	Disconnect key ⬅️, inquiry key Ⓞ️ or redial key Ⓞ️

Key assignment in edit field:


The function is performed by ...
scrolling right	Arrow key right ➡️
scrolling left	Arrow key left ⬅️
Delete character in front of cursor	Clearing key Ⓞ️


The initial condition means that the telephone is in the switching state hang up. This state consists in the following situations:

- a) The telephone is hang up.
- b) The telephone will be hang off and then the key ⬅️ will be pressed.

2.1.1 Adjusting the Volume

You can adjust the volume while establishing connections as well as during calls. The volume remains on this level after the call. The "Vol." indicator shows the current value (see Figure 6).

You can increase the volume level by pressing the key .

You can reduce the volume level by pressing the key .

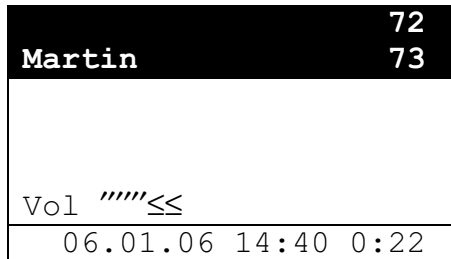


Figure 6: Adjusting the volume

2.2 Call Functions

2.2.1 Answering Calls

You receive a call and your phone rings. The name or phone number of the caller is displayed. The name or phone number of the person for whom the call is intended is also displayed. This is particularly useful in the event of multiple registrations on your telephone in order to identify the actual caller when a call is diverted to your telephone.

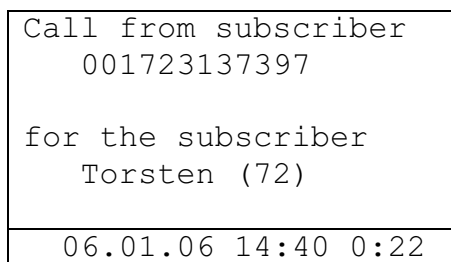




Figure 7: Answering a call

Answering or rejecting calls:

If you would like to answer the call, lift the handset. You will be connected to the caller.

To reject the call, press the key . The phone returns to the idle state and the caller will hear an engaged tone.

2.2.2 Terminating a Call

To finish a call, put the handset back on its rest or press the key .

2.2.3 Making Calls


To call someone, you can use single or block dialling.

2.2.3.1 Single Dialling

For single dialling take the following steps:










Torsten	72
0211654321	
Please dial	
06.01.06	14:40 0:00

Figure 8: Direct Dialling

1. Pick up the handset.
2. Enter the phone number. In this case the VoIP telephone dials the number while it is being entered
3. At the end of the call, hang up or press key .

2.2.3.2 Block Dialling

For block dialling do the following steps:

1. Pick up the handset and press the key .
2. Enter the call number and press the key  or . In this mode the dialling will be executed after pressing the key  respectively . During entering the call number the digits can be edited. You can move the cursor with the keys  and  and delete digits left to the cursor with the key .
3. Pressing the key  the dialling will be executed at once.

2.2.3.3 Dialling during active Connection

During existing connections all digits (0 – 9, *, #) which are entered are transmitted as DTMF signals. Using this DTMF procedure it is possible to access menu-controlled services (e. g. answering machines, voice boxes) directly via the telephone keypad.









2.2.4 Redialling

Up to 100 of the last numbers dialled are saved automatically, together with the time and date, and can be dialled again.

01	06.02.05	11:30	
Martin (Martin - 73)			
02	06.02.05	11:30	☒
Thomas (Thomas - 70)			
03	06.03.05	11:29	☒
Peter (Peter - 36)			
Calls (outbound)			

Figure 9: List of recently dialled numbers

Dialling numbers from the redial list

- In the initial condition, press the key . The list of the recently dialled numbers is displayed (see Figure 9).
 - Success (connected/not connected).
The symbol  on the display indicates that there has been a call.
 - The symbol  on the display indicates that there has been a redirected call.
 - The symbol  on the display indicates that there has been a transferred call.
 - The symbol  on the display indicates that there has been a dialled number on a locked telephone.
 - The symbol  on the display indicates that there has been an automatic call.
- Use the arrow keys to select the desired entry.
- To start dialling, pick up the handset or use the key  respectively .

2.2.5 Call Back

Up to 100 of the last incoming calls are saved automatically, together with the time and date, and can be called back, if the number of the caller was transmitted.

01	06.02.05	11:30	
Martin (Martin - 73)			
02	06.02.05	11:30	☎
Thomas (Thomas - 70)			
03	06.03.05	11:29	☎
Peter (Peter - 36)			
Calls (inbound)			

Figure 10: List of the last incoming calls

Dialling numbers from the calling list

- In the initial condition, press the key \textcircled{R} . The list of the last incoming calls is displayed (see Figure 10). The handset symbol on the display indicates that there has been a call.
 - Success (connected/not connected).
The symbol ☎ on the display indicates that there has been a call.
 - The symbol ☎ on the display indicates that there has been a redirected call.
 - The symbol ☎ on the display indicates that there has been a transferred call.
 - The symbol ☎ on the display indicates that there has been a dialled number on a locked telephone.
 - The symbol ☎ on the display indicates that there has been an automatic call.
- Use the arrow keys to select the desired entry.
- To start dialling, pick up the handset or use the key ☎ respectively ☎ .

2.2.6 Muting

You can mute the microphone during a call to make a confidential enquiry in the room without being heard on the phone.

Torsten	72
Thomas	77
☒ 06.01.06 14:40 0:22	

Figure 11: Muting

1. Press the key ⊗ during a call. The microphone symbol "☒" flashes (see Figure 11). The handset microphone is switched off. You can now make a room enquiry.
2. Press the Mute key ⊗ again.
If you are making a call with the handset picked up, the flashing microphone symbol ☒ disappears and the handset microphone is switched on again.

2.2.7 Making second Call

The line can be put on hold during a call. With the call on hold, you can make a second call to someone else. The person on hold can't hear the second call. The hold function is also needed to switch or transfer a call.

Torsten	72
Torsten	72
Please dial	
☒ 06.01.06 14:40 0:22	

Figure 12: Holding a call

1. Press the key Ⓜ during a call. The call is put on hold. You hear a dial tone. The line on hold is displayed normally, the active line inversely (see Figure 12).
2. Dial the call number. A further connection is established
3. To terminate the enquiry call, press the key Ⓜ . You return to the conversation partner previously put on hold.

2.2.8 Switching

You can switch between two connections using the switch function.

Torsten	72
Peter	36
Torsten	72
Thomas	70
☞06.01.06 14:40 0:22	

Figure 13: Switching

1. Press the key \textcircled{R} twice or the key \textcircled{R} followed by the key $\textcircled{2}$ during a call with an active line and a line on hold. The active line is put on hold and the line on hold is activated (see Figure 13).
2. To terminate the active line, you must press the key \textcircled{E} . The connection to the active conversation partner is terminated.

2.2.9 Transferring a Call

You are making a call and would like to transfer it to another party.

Torsten	72
Peter	36
Torsten	72
Thomas	70
☞06.01.06 14:40 0:22	

Figure 14: Transferring a call



1. Press the key \textcircled{R} during a call.
The call is put on hold. You hear a dial tone. The line on hold is displayed normally and the active line inversely.
2. Dial the call number of your choice.
The connection is established. If the called party answers, this can be treated like a second call, as above.
3. Hang up or press the key \textcircled{R} followed by the key $\textcircled{4}$. The caller will be connected with the dialled port.

2.2.10 Transferring a Call directly

You are making a call and would like to transfer it to another party directly.



Figure 15: Transferring a call directly




1. Press the key  during a call.
2. You will be left. The actual connection will not be displayed.
3. Dial the call number of your choice.
4. Press the key .
5. The caller will be connected with the dialled port directly.
6. Hang up.

2.2.11 Initiating a Conference










You can use this function to set up a conference between two lines. To do so, you need an active line and a line on hold (refer to Section 2.2.7 "Making second Call" beginning on page 16).

Torsten	72
anonym	
Torsten	72
Peter	36
3party	
☛06.01.06 14:40 0:22	

Figure 16: Conference

1. Press the key  or the key  followed by the key  during a call with an active line and a line on hold.

A conference is set up between the active line and the line on hold. All the subscribers can now talk with each other (see Figure 16).

2. You can end the conference by pressing the key  respective the key  followed by the key  or twice the key . If you end the conference with pressing the key  or the key  followed by the key , the call put on hold prior to the initiated conference is now on hold again and the previously active call is active once again. If you end the conference with pressing the key  twice, the call put on hold prior to the initiated conference is now active and the previously active call is now on hold.
3. To terminate the active line, you must press the key . The connection to the active conversation partner is terminated.

Subject to alterations
or errors



FHF Funke + Huster Fernsig GmbH

Gewerbeallee 15-19 · D-45478 Mülheim an der Ruhr
Phone +49/208/82 68-0 · Fax +49/208/82 68-286
<http://www.fhf.de> · e-mail: info@fhf.de