Weatherproof VoIP-telephone

FernTel IP / IP150

Tabletop unit

Short manual

FUNKE+HUSTER·FERNSIG

BA 9620-04   01/16   V8 / V9
FernTel IP / IP150 – Short manual

☞

Note

Please read the operating manual carefully before installing the device.

This is only a short manual for the weatherproof default version. 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 as well as the description of the special versions 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.

☜

Table of Contents

1 VoIP-Telephone FernTel IP / IP150

1.1 FernTel IP / IP150 Keypad Description

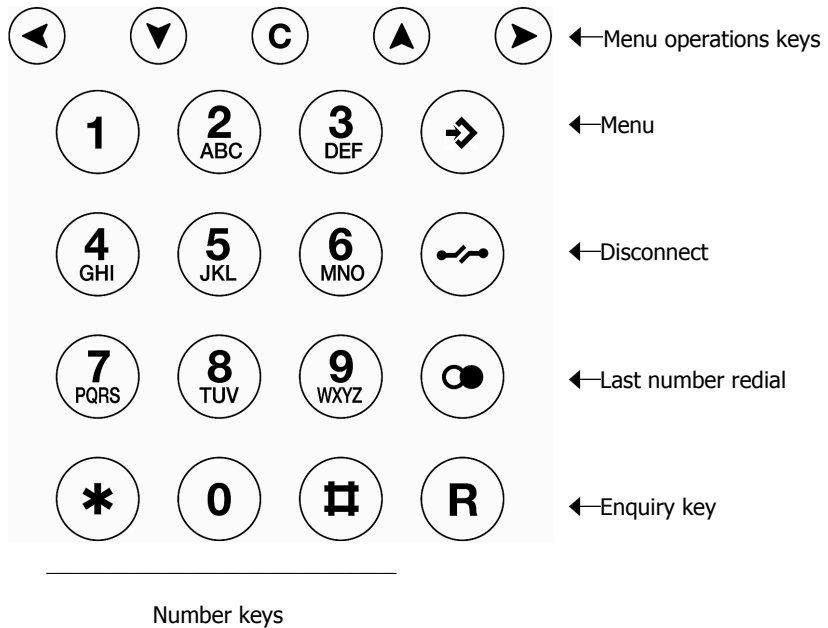Menu operations keys

Menu

Disconnect

Last number redial

Enquiry key

Number keys

Figure 1: Keypad of the VoIP-Telephone FernTel IP / IP150
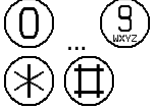
Symbol	Description and key function
⊖	The Menu key is used to open the main menu or save changes.
⌣	The Disconnect key is used to terminate calls or any menu.
®	The Enquiry key is used to enable the "Hold" and "Switch" functions. In idle mode, the Enquiry key is used to call up the list of missed calls.
◉	The Redial key is used to select the list of 100 phone numbers last dialled.
◀▼▲▶	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.
0 ... 9 ✳ #	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 7 lines with max. 21 characters and a state line for showing information.

1.2.1   Default Display

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.

1   2   3

```
Torsten                72



  ↳  06.01.06 14:40   ◆
```
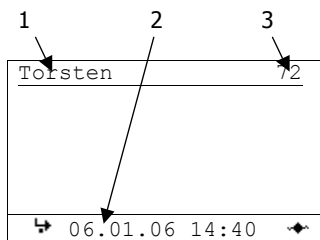
Figure 2: Display of the VoIP Telephone FernTel IP / IP150

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.
	06.04.10	Date
	14:00	Time
	٥Ɖ	No connection to the gatekeeper
	◆	Connection established to the gatekeeper
	◇	Connection established to the secondary gatekeeper
	◆ ◁▷	Connection to the gatekeeper broken. (Both symbols are displayed in mutual change
	₵	Microphone switched off (symbol flashing)
	↳	Call diversion activated
	➚	Handset activate
	⊶	Telephone locked
	₦	Calling number transmission locked
3		Own call number (E.164)
4	⌂	Called party
	₵	Calling party
	—	Unknown number/name, unresolved number
	↳	Diverting party
	↦	Transferring party
	↱	Returning call
	➡	Call pending
	₫₭	Call on hold

Table 2: Display Contents of Default Display of the FernTel IP / IP150

1.2.2   Menu and Listing Display

The first six lines are used for the menu and listing display.

The last line is used for display of menu level, display name, scroll information and type of entry.
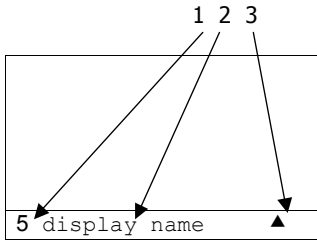
Figure 3: Menu and Listing Display of the VoIP Telephone FernTel IP / IP150

Position	Symbol	Description
1		Menu or listing level 0
	<	Menu or listing level 1
	+	Menu or listing level 2
	5	Menu or listing level 3
	⋘	Menu or listing level 4 or lower
2		Display name
3	▲	Scrolling up possible
	⬍	Scrolling up and down possible
	▼	Scrolling down possible
	a	Alphanumerical input
	1	Numerical input
		Choice, next level

Table 3: Contents of the Menu and Listing Display of the 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 Ø 18 mm under the screw head.
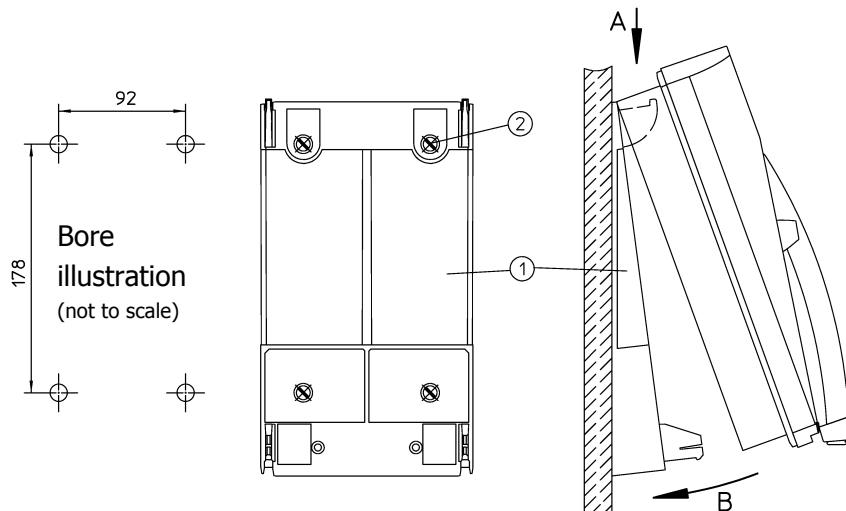
Figure 4: Mounting on a Wall

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.
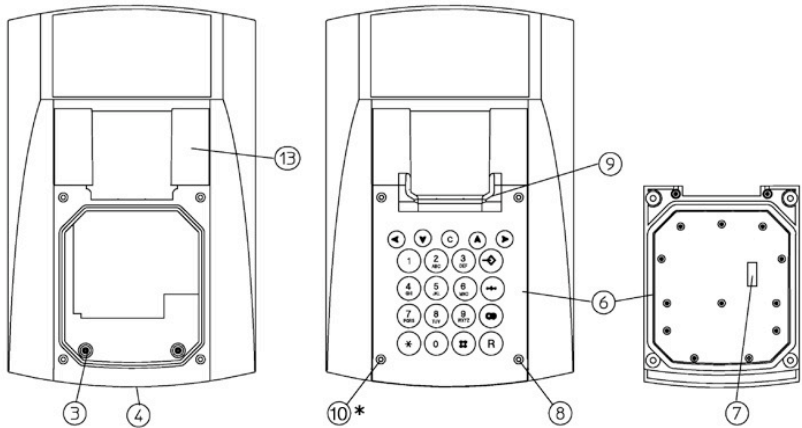
	Top view	Bottom view keypad
Top view with disconnected keypad		

*depending on version

Figure 5: 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).

The fixing screws (8) are provided with sealing plugs (10). A bag of sealing plugs (10) is included in the device.

1.3.2 Table Version

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

Side view	Bottom view keypad	Top view

*depending on version

Figure 6: 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).
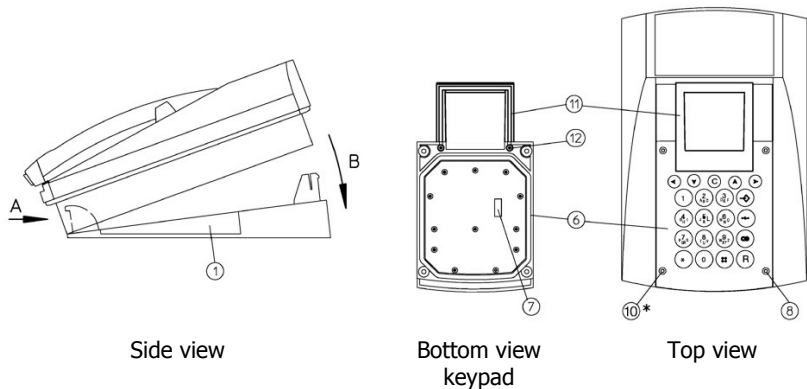
Plug the ribbon cable onto the pin contact strip (7) of the keypad plate.

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

The fixing screws (8) are provided with sealing plugs (10). A bag of sealing plugs (10) is included in the device.

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 5). 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 5, 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:
  - RJ sleeve housingType VS-08-T-RJ45/IP67, Art.-Nr.: 1688696
  - Male insert RJ45, CAT5, 8-polig Type VS-08-ST-RJ45/IP67, Art.-Nr.: 1688573
- Short manual
- Manual on CD
- Operating instructions ExFernTel IP / IP150 (optional)
- Operating instructions cable entry

Accessories (optional)
- sling holder
- Fly screen
- LAN connector from Phoenix Contact

1.5 CE Symbol

We hereby declare this product is in compliance with the Essential Health and Safety Requirements of
- EMC Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU
- and RoHS Directive 2011/65/EU

The appropriate standards, technical regulations und specifications you can take (optional) from the attached conformity declaration and the conformity declarations on our Website.

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 ℝ 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 7).

You can increase the volume level by pressing the key ⊚.

You can reduce the volume level by pressing the key ⊚.

```
                      72
Martin                73


Vol ■■■■■■□□
   06.01.06 14:40 0:22
```

Figure 7: Adjusting the Volume

2.1.2   Adjusting the Ring Tone Volume

You can adjust the ringer volume while incoming calls concerning to the actual call type (internal, external). The ringer volume remains on this level after the call. The "Vol." indicator shows the current value (see Figure 8).

You can increase the ringer volume level by pressing the key ⊚.

You can reduce the ringer volume level by pressing the key ⊚.

```
♪Torsten             72
☎Martin
 73


vol. ■■■■■□□
   06.04.10 14:40 0:22
```
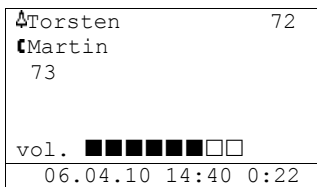
Figure 8: Adjusting the Ringer Volume

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.

```
Call from subscriber
   001723137397

for the subscriber
   Torsten (72)

  06.01.06 14:40 0:22
```
Figure 9: 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
```
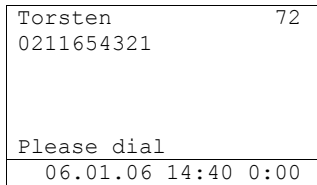**Figure 10: Direct Dialling**

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 11: List of Recently Dialled Numbers

Dialling numbers from the redial list

1. In the initial condition, press the key ◉. The list of the recently dialled numbers is displayed (see Figure 11).

   - 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.

2. Use the arrow keys to select the desired entry.

3. 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 12: List of the Last Incoming Calls

Dialling numbers from the calling list

1. In the initial condition, press the key ®. The list of the last incoming calls is displayed (see Figure 12). 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.

2. Use the arrow keys to select the desired entry.

3. 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



ɑ🗪06.01.06 14:40 0:22
```
Figure 13: Muting

1. Press the key ⊛ during a call. The microphone symbol "ɑ" flashes (see Figure 13). 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 ɑ 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 14: 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 14).

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 15: Switching

1. Press the key Ⓡ twice or the key Ⓡ followed by the key 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 15).

2. To terminate the active line, you must press the key ⊝. 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 16: Transferring 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 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 Ⓡ followed by the key 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.

```
                            
                            
                            
                            
     Transfer               
```
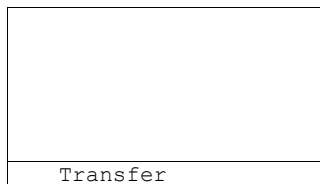**Figure 17: Transferring a Call directly**

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 18).

```
Torsten            72
anonym
Torsten            72
Peter              36

3party
06.01.06 14:40 0:22
```
Figure 18: Conference

1. Press the key ⊖ or the key ® followed by the key ③ 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 18).

2. You can end the conference by pressing the key ⊕ respective the key ⓡ followed by the key ③ or twice the key ⓡ. If you end the conference with pressing the key ⊕ or the key ⓡ followed by the key ③, 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.

To terminate the active line, you must press the key ⊖. The connection to the active conversation partner is terminated.

FHF

FUNKE+HUSTER·FERNSIG

FHF Funke + Huster Fernsig GmbH