

# Weatherproof Telephone FernTel IP

IP telephone for indoor and outdoor applications



## Overview

With approved technology of FHF, the FernTel IP is suitable for outside installations. It is the ideal device for every weather and a number of different operation sites – no matter if exposed to seawater, high humidity or extensive mechanical strain.

The elegant housing is made of impact and shock-resistant plastics. Even acids, alkalis or lubricants cannot harm the high-quality components of our versatile desk/wall telephone FernTel IP. Its modern design represents a perfect „packaging“ for the latest requirements for modern IP telephones. Moreover, its striking signal colours ensure that the FernTel IP cannot be missed whenever a telephone is urgently needed, e.g. in case of an emergency in poor weather and light conditions.

The FernTel IP is suitable for almost universal use thanks to its amazing transformability: With a flick of the wrist the desk telephone for indoor use is converted into a wall-mounted device for outdoor applications.

The FernTel IP allows for effective working with high telephoning comfort. The illuminated keypad and display make the comfort complete. The Ethernet connectivity with the internal 2-port switch allows the user to connect a laptop in an outdoor area. The laptop obtains network access through the telephone.

The FernTel IP offers high-quality features on the basis of industrial standards instead of proprietary solutions.

## Features

- Ingress protection IP 65 according to IEC60529
- Ambient temperature -20 °C to +60 °C
- Ring tone ≥ 95 dB(A) in 1 m distance
- pixel-based, illuminated LCD display
- Illuminated keypad
- Intelligent and user-friendly menu structure
- Standard protocols H.323, SIP, TSIP, SIPS
- Power supply: Power over Ethernet
- Connection to single 10/100-BASE-T Ethernet LAN, RJ45

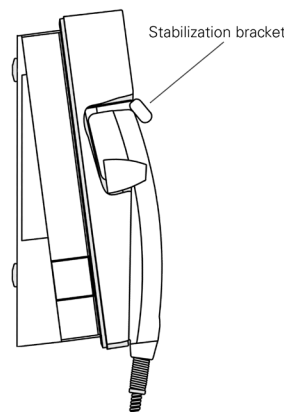
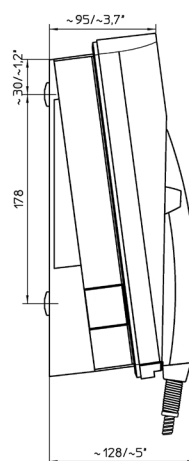
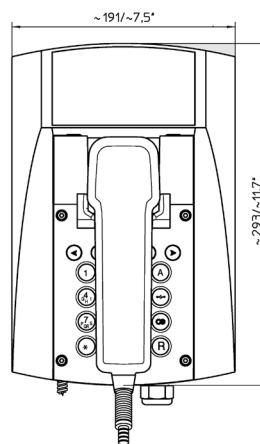
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## General arrangement drawing (all dimensions in mm)

### Specifications

Power supply	Power over Ethernet according to IEEE 802.3af
Connection	2x RJ45 Ports 10/100-BASE-T Ethernet LAN
Ringing volume	Approx. 95 dB(A) in 1 m distance
Housing	
Material	Polycarbonat
Height x width x depth	293 mm x 191 mm x 128 mm
Weight	Approx. 2.3 kg
Display	128 x 64 pixels
Operating position	Desk or vertical wall mounting
Operating temperature	-20 °C to +60 °C
Ingress protection	IP 65 according to IEC 60529
Protocols	H.323, SIP, TSIP, SIPS
General	H.323 version 4 including H. 225, H.235, H.245 and RAS Gatekeeper routed signalling, H.450 Session Intiation Protocol (SIP) RTP, SRTP real time protocol – for voice data transfer
RTCP	real time control protocol – first level of “Quality of Service”
RAS protocol	Support for external gatekeeper
DTMF	H.245 “Alphanumeric” or “Signal Type”
Additional VoIP features	H.245 fast connect Enblock dialing Overlapped sending
Security	Encoded password authorization according to H.235
Quality of Service	Prioritization of IP packages over TOS and DiffServ VLAN priority according to IEEE 802.1p/802.1q
Voice encoding	G.711 A-law/ $\mu$ -law (64 kbps), G.723.1 (5.3 kbps), G.729A (16 kbps)
Echo compensation	G.168
Access	Via HTML Web Browser password-protected with secure authentication
Troubleshooting	Log and trace files, status displays of interfaces a connections; ping connection test for internet protocol, sending of SNMP traps
Updates	Configuration recording/reading Boot code and firmware update via HTML upload Automatic update via update server
DSL access	PPPoE protocol
VPN	Tunneling with PPTP encoding via MPPE
NAT	Network Address Translation – for translation of oficial IP addresses into non-official addresses and vice versa
DHCP	Dynamic Host Configuration Protocol – IP Interfaces settings
ICMP	Internet Control Message Protocol – for ping tests
Call Tone Generation	Automatic call tone generation according to European and US standard
Call Transfer	Call Transfer, in all usual variants: with/without consultation call,before/after answer etc.
Call Diversion	Call diversion/redirection
Call hold	Call hold/retrieve
Call waiting	With respective indication to calling subscriber
Message waiting	Message display on telephone
Name display	To determine the displayed name
Three-party conference	With 3 subscribers, also external subscribers
Caller ID	For separate indication of call numbers or groups
Multiple registration	Up to 6 registrations
Telephone Book	Automatic availability of all registrations in central telephone book, Integration of external data bases via LDAP
Time	Exact time information via time server access



### Ordering data

\* The full article number for is made up by appending the colour code to the article numbers given below.

Type	Designation	Model	Article number*
FernTel IP	Desk/wall telephone	with spiral cord	FHF 112 311 2
FernTel IP	Desk/wall telephone	with armoured cord	FHF 112 331 2
<b>Accessories</b>			
	Stabilization bracket		FHF 112 390 00
	Weatherproof RJ45 LAN plug		FHF 112 390 01

yellow	1
red	2
grey	7
black	0