



# Weatherproof VoIP-Telephone FernTel IP

## VoIP-Telephone for indoor and outdoor use

- ▶ Protection degree IP 65 acc. to IEC60529
- ▶ Ambient temperature -10°C to +50°C
- ▶ Call tone  $\geq 95$  dB(A), 1 m distance
- ▶ Pixel-based, illuminated LCD Display
- ▶ Illuminated keypad
- ▶ Intelligent and user-friendly menu structure
- ▶ Standard protocol SIP and H.323
- ▶ Power supply Power over Ethernet
- ▶ 2x Ethernet: RJ-45, 10/100-BASE-TX

## Application

With approved technology of FHF, the FernTel IP is been suitable for all outside installations.

The new FernTel IP is the ideal telephone for many differential work areas – seawater, high air humidity, dust and not exactly gentle mechanical stress are no problem for it.

The stylish housing is made of impact-resistant and shockproof plastic moulding. Even acids, alkalis or lubricants cannot damage the high quality components of our versatile desk / wall telephone FernTel IP. Its modern design is the perfect “packing” for the finest high-tech.

Its striking signal colours ensure the FernTel IP cannot be missed whenever a telephone is urgently needed, e.g. in emergencies in poor weather and light conditions.

The FernTel IP is suitable for almost universal use thanks to its amazing transformability. A desk telephone for indoor use is converted into a wall telephone for outside use.

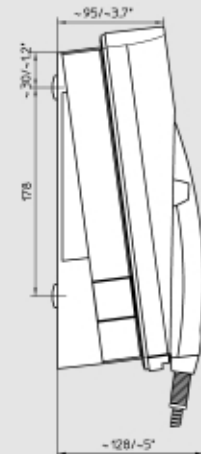
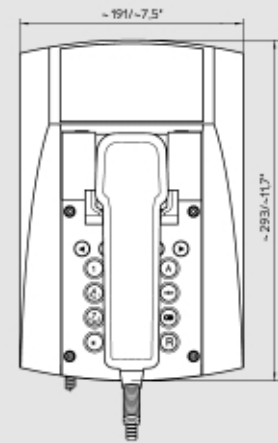
The FernTel IP makes possible effective working with high comfort. The illuminated keypad and display finish the comfort. The standardized features according to H.450 are supported. The Ethernet connectivity supports with the internal 2 port switch connecting a laptop in an outdoor area. The laptop gets a network access through the telephone. The FernTel IP offers qualitative high-grade features according to industrial standards instead of proprietary solutions.

The FernTel IP is the ideal telephone for many differential work areas.



## Technical specification

Housing	Polycarbonate
Housing Dimensions	height x width x depth 293 x 191 x 128 mm
Weight	approx. 2.3 kg
Protection Degree	Acc. to IEC60529 IP 65
Power Supply	Power over LAN (IEEE 802.3af)
Connection Plugs	2x Ethernet: RJ-45, 10/100-BASE-TX auto negotiation
Ringling Volume	approx. 95 dB(A) at 1 m distance
Display	128 x 64 Pixel
Temperature Range	-10°C...+50°C
Protocol	SIP, H.323
total	H.323 version 4 incl. H.225, H.235, H.245 and RAS Gatekeeper routed Signalling, H.450 Session Initiation Protocol (SIP) RTP Real Time Protocol
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 En-block dialling Overlapped Sending
Security	Password Protected Administration Encoded Password Authorization acc. to H.235
Quality of Service	Priority of IP-Packages acc. to TOS and DiffServ, VLAN Priority acc. to IEEE 802.1p / 802.1q
Voice Encoding	G.711 A-law / $\mu$ -law (64 kbps), G.723.1 (5.3 kbps), G.729A (16kbps)
Echo Compensation	G.168
Access	via HTML Web-Browser Password protected authentication
Troubleshooting	Log- and Trace-Files, State Display of Interfaces and Connections, Ping Connection Test sending of SNMP Traps over Internet Protocol
Update	Configuration recording/reading, Boot code and firmware update via HTML upload, Automatic update via Update-Server
DSL-Access	PPPoE Protocol
VPN	Tunnelling with PPTP Encoding via MPPE
NAT	Network Address Translation – for Transformation of official IP Addresses into private IP Addresses and vice versa
DHCP	Dynamic Host Configuration Protocol – IP interfaces settings
ICMP	Internet Control Message Protocol – for Ping tests
Dial Tone Generation	Automatic Dial tone Generation European and US Standard
Call Transfer	Call Transfer with/without consultation call
Call Diversion	Call Diversion Unconditional, Busy, No Reply
Call Hold / Retrieve	Call Hold / Retrieve
Call Waiting	Call Waiting inclusive Signalling of second Call Information
Message Waiting	Message Waiting Indication
Calling Name Identification	Name Display
3 Party Conference	3 Party Conference of internal and/or external Subscriber
Calling Number Identification	Display of Calling Number
Multiple Registrations	Up to 6 Registrations
Telephone Book	Local, Integration of an External Database
Time/Date	Exact Time and Date Information via Time Server



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

<b>yellow</b>	1
<b>red</b>	2
<b>grey</b>	7
<b>black</b>	0

## Order information

Type	Name	Version	Art. No.*
FernTel IP	Desk/Wall Telephone	with spiral cord	112 311 2 ...
FernTel IP	Desk/Wall Telephone	with flexible steel armoured cord	112 331 2 ...
<b>Accessories</b>	Stabiliser bracket		112 390 00
<b>Accessories</b>	Weatherproof RJ45 LAN plug		112 390 01

Subject to change without notice

Printout 02/07

