Weatherproof Telephone FernTel IP4

VoIP-Telephone for indoor and outdoor applications

Overview

With FHF approved technology, the FernTel IP4 is suitable for outside installation. It's the ideal weatherproof VoIP desk/wall telephone for applications in potentially harsh and rough environments in many industrial applications — no matter if exposed to seawater, high humidity or extensive mechanical strain.

The elegant housing is manufactured from polycarbonate: an impact-resistant thermoplastic. The FernTel IP4 provides durability and longevity while minimising the need for maintenance.

The FernTel IP4 provides highly effective ergonomics with an intelligent user-friendly menu structure and easy installation and maintenance. The illuminated keypad and luminous display ensures visability in low light environments.

The Ethernet connectivity with the internal 2-port switch allows the user to connect a laptop in an outdoor area which then obtains network access through the telephone. The FernTel IP4 offers high-quality features while meeting industrial standards and provides high quality communication, safely.

Features

- Ingress protection class IP 65 according to IEC60529
- ambient temperature -40°C to +60°C
- Ringing volume >= 95 dB(A) in 1 m distance
- Pixel-based luminous OLED display
- Illuminated keypad
- Intelligent and user-friendly menu structure
- VoIP Protocols: SIP, H.323 (UDP, TCP, TLS), RTP, SRTP (SDES, DTLS), RTCP, ICE
- Power supply: PoE or external
- Connection to 10/100 /1000-BASE-T Ethernet
- Relay built-in (SPST)
- Relay module (optional) 2x SPDT

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Powering Business Worldwide

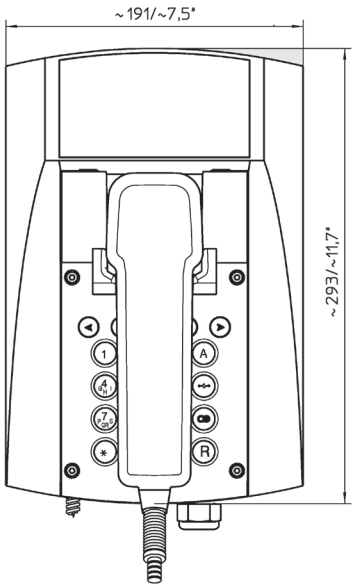
Technical feature

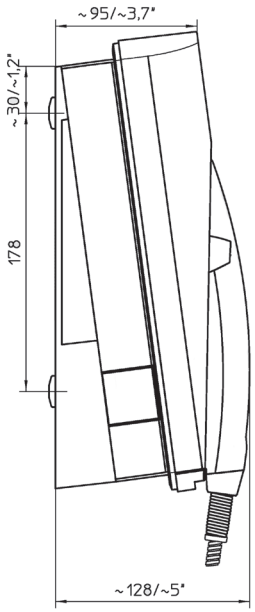
Power supply	Power over Ethernet according to IEEE 802.3af via 48 V DC PoE power supply (44 V min, 57 V max)	
Voltage external power supply	22.8 VDC - 53 VDC	
Power consumption	4 W (POE class 0)	
Connection	2x RJ45 Port (10/100/1000 Mbit/s) 1x PoE	
Ringing volume	Max. approx. 95 dB(A) in 1 m distance	
Housing		
Material	Polycarbonate	
Height x width x depth	293mm x 191mm x 128mm	
Weight (standard model)	Approx. 2.3 kg	
Display	128 x 64 pixels (OLED)	
Operating position	Desk or vertical mounting	
On Board Relay (standard)		
Switching voltage	AC	30 V
	DC	60 V
Switching current	AC	1.0 A
	DC	1.0 A
Switching capacity	AC	15 VA
	DC	15 W
Relay 1 and Relay 2 (optional)		
Switching voltage (Vswitch)	AC	250 V
	DC	230 V
Switching current	AC	5,0 A
	DC	5,0 A
Switching capacity	AC	Vswitch≥35V 15 VA
	AC	Vswitch<35V 100 VA
	DC	Vswitch≥50V 15 W
	DC	Vswitch<50V 100 VA
Inputs 1-3 (optional)		
Open circuit voltage	22.8 VDC - 57.0 VDC	
Short circuit current	< 10 mA (internally limited)	
Handset		
Mouthpiece	Electret microphone	
Earpiece	Dynamic capsule with magnetic field generator for inductive coupling of hearing aids	
Stabilization bracket	Optional	
Environmental conditions		
Ambient temperature	-40°C to +60°C	
Transport and storage	-40°C to +60°C	
Humidity	5 to 85% RH (Avoid icing and condensation)	
Protection class	IP 65 according to IEC 60529	

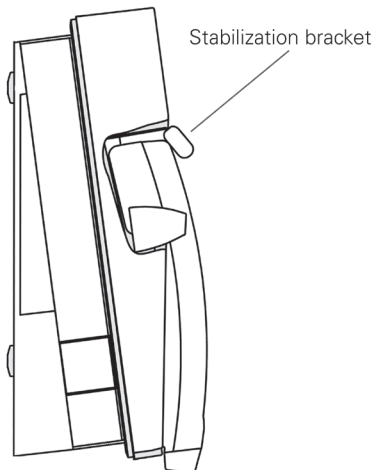
Characteristics

Protocols	VoIP Protocols: SIP, H.323 (UDP, TCP, TLS), RTP, SRTP (SDES, DTLS), RTCP, ICE
DTMF	In-Band, Out-Of-Band, Event
Additional VoIP features	H.245 fast connect enblock dialing overlapped sending
Security	Encoded password authentication according to H.235
Quality of service	Prioritization of IP packkages over TOS and DiffServ, VLAN priority according to IEEE 802.1p/802.1q
Voice codecs	G.711 A-law/µ-law, G.729A, G.722, OPUS (NB/WB)
Administration	Access using https, Password-protected with secure authentication
Diagnistic tools	Log and trace files (pcap), status displays of interfaces and connections Ping connection test, 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	PPP over PPPoE/PPTP
NAT	Yes
DHCP	Client with private option codes, server mode
Call tone generation	Automatic call tone generation according to European and US standard
Multiple registration	Up to 6 registrations
Telephone book	internal, centralized (optional), integration of external data bases via LDAP
Time	NTP

General arrangement (all dimensions in mm)







Ordering requirements

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

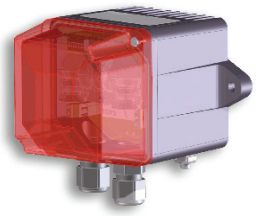
Type	Designation	Model	Article Number
FernTel IP4	Desk/Wall Telephone	with spiral cord	FHF 114 211 21*
FernTel IP4	Desk/Wall Telephone	with armoured cord	FHF 114 211 22*
FernTel IP4	Desk/Wall Telephone	with spiral cord and relay	FHF 114 212 21*
FernTel IP4	Desk/Wall Telephone	with armoured cord and relay	FHF 114 212 22*
Accessories			
	Stabilization bracket		FHF 112 390 00
	Weatherproof RJ45 LAN plug		FHF 112 390 01
	Headset		FHF 112 643 04
	Telephone hood model 404	galvanized steel, yellow	FHF 118 901 01
	Telephone hood model 404	V4A stainless steel	FHF 118 901 11
	Telephone hood model 404	synthetic material, orange	FHF 118 901 12
	Telephone hood model 404	synthetic material, yellow	FHF 118 901 13
	Telephone hood model 404	galvanized steel, red	FHF 118 901 14
	Telephone hood model 404	synthetic material, red	FHF 118 901 15
	Telephone hood model 404	GRP, yellow	FHF 118 901 22
	Telephone hood model 404	GRP, orange	FHF 118 901 23
	TWIN LED 24 VDC		FHF 118 823.. *
	TWIN LED 100...253VAC	only for variants with optional relay	FHF 118 827.. *

black	0
yellow	1
red	2

transparent	01
red	02
amber	03
green	04
blue	05

Accessories

Headset



TWIN LED

Protection hood