

Ex-Telephone FernTel IP4 Z2

VoIP desk/wall telephone for applications in potentially explosive atmospheres in zone 2 and 22



Overview

The FernTel IP4 Z2 Telephone is designed for applications in potentially explosive areas of zone 2 and 22. The telephone housing is made of impact-resistant thermoplastic and is certified according to ATEX/IECEx. In the field of the chemical and petrochemical industry potentially explosive atmospheres occur during production procedures caused by e.g. gases, vapours or mist. Its striking signal colors ensure that the FernTel IP4 Z2 cannot be missed whenever a telephone is urgently needed. The use of an impact-resistant thermoplastic housing and stainless steel screws, gives even more advantages.

This telephone may be converted from a wall mounted device to a desk telephone and vice versa simply. The FernTel IP4 Z2 allows for effective working with well-designed ergonomics and the illuminated keypad and display make operation simple.

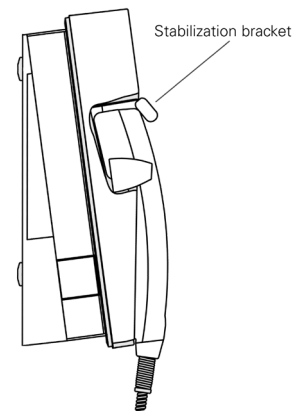
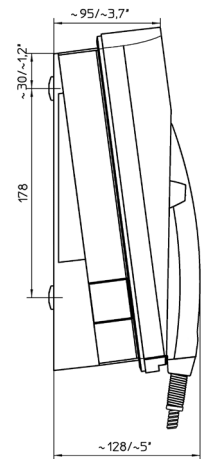
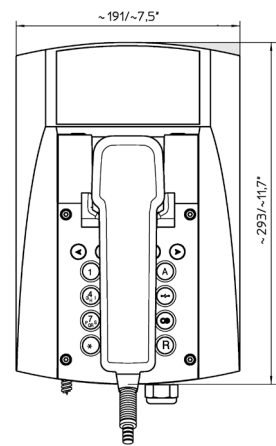
Features

- Protection class IP 65 according to IEC60529
- Ambient temperature -20°C to +55°C
- Call tone 95 dB(A) in 1 m distance
- Protection class
II 3G Ex ec ic IIC T5 Gc
II 3D Ex tc ic IIIC T85°C Dc
- Pixel-based luminous OLED display
- Illuminated keypad
- Intelligent and user-friendly menu structure
- VoIP Protocols: SIP, H.323 (UDP, TCP, TLS), RTP, SRTP (SDS, DTLS), RTCP, ICE
- Power supply: PoE or external
- Connection to 10/100/1000-BASE-T Ethernet



Certifications		
Protection type	II 3G Ex ec ic IICT5 Gc II 3D Ex tc ic IIICT85°C Dc	
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	RJ45 Port (10/100/1000 Mbit/s) with optional 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	53 V
Switching current	AC	1.0 A
	DC	1.0 A
Switching capacity	AC	15 VA
	DC	15 W
Handset		
Mouthpiece	Electret microphone	
Earpiece	Dynamic capsule with magnetic field generator for inductive coupling of hearing aids	
Stabilization bracket	Optional	
Environmental conditions		
Ambient temperature	-20°C to +55°C	
Transport and storage	-25°C to +70°C	
Humidity	5 to 75% 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 packages 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	
Diagnostic 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 for ATEX and IECEx variants is made up by appending the colour code to the article numbers given below.

Type	Designation	Model	Art.-No.
FemTel IP4 Z2	Desk/Wall Telephone	with spiral cord	FHF 114 221 21 *
FemTel IP4 Z2	Desk/Wall Telephone	with armoured cord	FHF 114 221 22 *
Accessories			
	Stabilization bracket		FHF 112 390 00

black	0
yellow	1
red	2