Z2line

FHF
FUNKE+HUSTER·FERNSIG

FernTel IP

Ex-Telephone
FernTel IP / Zone 2 / 22

VoIP desk/wall telephone for use in areas with explosive atmospheres in Zone 2 and 22

► Protection degree IP 65 EN 60529

► Ambient temperature -20 °C to +55 °C

► Call tone ≥ 95 dB(A), 1 m

► Explosion protection class II 3G Ex nA ic IIC T5 Gc
  II 3D Ex tc ic IIIC T80 °C Dc

► Pixel-based, illuminated LCD Display

► Illuminated keypad

► Intelligent and user-friendly menu structure

► Standard H.323, SIP, TSIP, SIPS protocols

► Power supply Power over Ethernet

► Connection to single
  10/100-BASE-T Ethernet LAN

IECEx

Ex ATEX

Application

This new telephone with a housing made of impact-resistant and shock-proof polycarbonate is approved for zone 2 / 22 according ATEX.

Within the field of chemical and petrochemical industry combustible atmospheres result repeatedly from procedural progress eventually caused by gas, steam or exhalation.

Due to its striking signal colour the FernTel IP / zone 2 / 22 cannot be missed whenever a telephone is urgently needed in zone 2 / 22.

Further advantages concerning the employment in areas with high air humidity and explosive atmospheres are given by the use of an impact-proof thermoplast housing as well as screws made of stainless steel.

The device is easily converted from a wall telephone to a desk telephone.

The FernTel IP / zone 2 / 22 allows efficient working with high comfort completed by the illuminated key-pad and display. The standardized features according to H.450 are supported.

The FernTel IP / zone 2 / 22 offers features of high quality based on industrial standards instead of proprietary solutions.
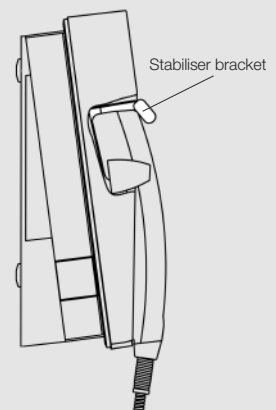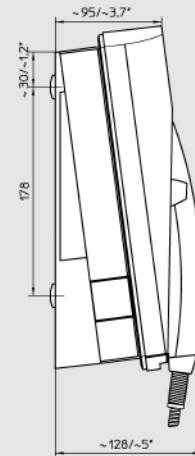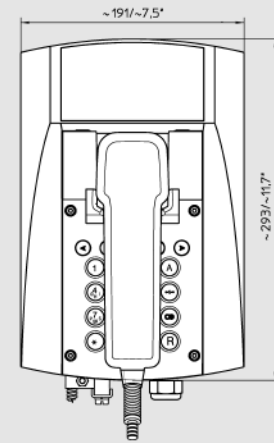
Telephoning in Ex Zone 2 / 22

The new FernTel IP / Zone 2 / 22 is the ideal telephone for many different work areas in Zone 2 or 22.

Technical specifications

Housing	Polycarbonate
Keypad	with stainless steel plate
Housing Dimensions	height x width x depth 293 x 191 x 128 mm
Weight	approx. 2.4 kg
Protection Degree	acc. to IEC60529 IP 65
Power Supply	Power over Ethernet (IEEE 802.3af)
Connection	10/100-BASE-T Ethernet LAN
Ringing Volume	approx. 95 dB(A) at 1 m distance
Display	128 x 64 Pixel
Temperature Range	-20 °C to +55 °C
Explosion protection class	II 3G Ex nA ic IIC T5 Gc II 3D Ex tc ic IIIC T80°C Dc
Protocol	H.323, SIP, TSIP, SIPS
total	H.323 version 4 incl. H.225, H.235, H.245 and RAS Gatekeeper routed Signalling, H.450 Session Initiation Protocol (SIP) RTP, SRTP 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 / µ-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
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

Stabiliser bracket

Order information

				yellow	1
				red	2
				grey	7
				black	0

Type	Name	Version	Art. No.*	
FernTel IP / Zone 2/22	Desk / Wall Telephone	with spiral cord	112 411 2	…
FernTel IP / Zone 2/22	Desk / Wall Telephone	with armoured cord	112 431 2	…
FernTel IP / Zone 2/22	Stabiliser bracket		112 390 00	

Subject to change without notice · Printout 07/14