Ex-Telephone FernTel IP / Zone 2

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

► Protection degree IP 65 EN 60529

► Ambient temperature -20°C to +55°C

► Call tone ≥ 95 dB(A), 1 m

► Explosion protection class II 3 G Ex nA L IIC T5

► Pixel-based, illuminated LCD Display

► Illuminated keypad

► Intelligent and user-friendly menu structure

► Standard protocol SIP and H.323

► Power supply Power over Ethernet

► 1x Ethernet: RJ-45, 10/100-BASE-TX

Application

The new telephone for use in areas with explosive atmospheres of Zone 2. Its housing is made of impact-resistant and shockproof Polycarbonate and approved for Zone 2 according ATEX.

Within ranges of the chemical and petrochemical industry combustible atmospheres result again and again from process engineering operational sequence. Caused e.g. by gas, steam or nebula.

Its striking signal colour ensures that the FernTel IP / Zone 2 cannot be missed whenever a telephone is urgently needed in Zone 2.

The resistance of housing and use of screws of stainles steel are especially advantageous for use in areas with high air humidity and explosive atmospheres.

A deft hand movement and the desk telephone is converted into a wall telephone.

The FernTel IP / Zone 2 is suitable for almost universal use thanks to its amazing transformability.
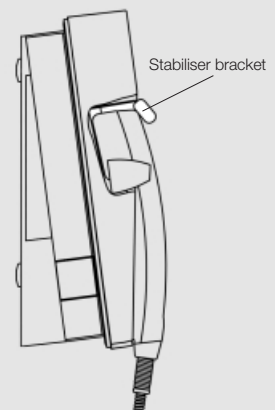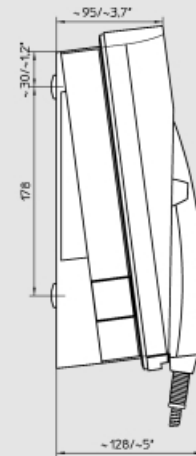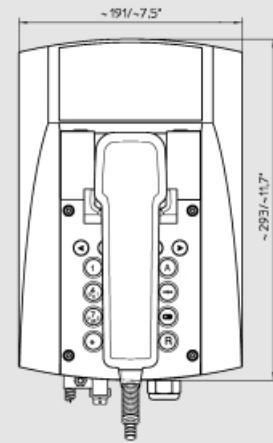
The FernTel IP / Zone 2 makes possible effective working with high comfort. The illuminated keypad and display finish the comfort. The standardized features according to H.450 are supported.

The FernTel IP / Zone 2 offers qualitative high-grade features according to industrial standards instead of proprietary solutions.

Telephoning in Ex Zone 2

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

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 LAN (IEEE 802.3af)
Connection Plugs	1x Ethernet: RJ-45, 10/100-BASE-TX auto negotiation
Ringing Volume	approx. 95 dB(A) at 1 m distance
Display	128 x 64 Pixel
Temperature Range	-20°C...+55°C
Explosion protection class	ll 3 G Ex nAn L ll C T5
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 / 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

~191/~7.5"

~293/~11.7"

~95/~3.7"

~30/~1.2"

178

~128/~5"

Stabiliser bracket

Order information

						yellow red grey black	1 2 7 0	

Type	Name	Version	Language	Art. No.*		
FernTel IP / Zone 2	Desk/Wall Telephone	with spiral cord	German	112 411 2	…	
FernTel IP / Zone 2	Desk/Wall Telephone	with spiral cord	English	112 411 2	…	99
FernTel IP / Zone 2	Desk/Wall Telephone	with armoured cord	German	112 431 2	…	
FernTel IP / Zone 2	Desk/Wall Telephone	with armoured cord	English	112 431 2	…	99
FernTel IP / Zone 2	Stabiliser bracket			112 390 00		