



Ex-Telephone FernTel IP / Zone 2 UL

VoIP desk/wall telephone for use in areas with explosive atmospheres in Class 1, Div. 2 Groups A, B, C & D T5

- Protection degree Type 3
- ► Ambient temperature -20 °C to +55 °C
- Call tone ≥ 95 dB(A), 1 m
- Explosion protection Class 1, Div. 2Groups A, B, C & D T5
- ► 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

Application

This new telephone with a housing made of impact-resistant and shock-proof polycarbonate is approved for Class 1, Div. 2.

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 UL cannot be missed whenever a telephone is urgently needed.

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 UL allows efficient working with high comfort completed by the illuminated keypad and display. The standardized features according to H.450 are supported.

The FernTel IP/zone 2 UL offers features of high quality based on industrial standards instead of proprietary solutions.

Telephoning in Class 1, Div. 2

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



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 Type 3

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 $128 \times 64 \text{ Pixel}$ Temperature Range $-20 \,^{\circ}\text{C}$ to $+55 \,^{\circ}\text{C}$

Explosion protection Class 1, Division 2, Groups A, B, C, D T5

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 Unconditional, Busy, No Reply

Call Hold / Retrieve Call Hold / Retrieve

Call Waiting Call Waiting inclusive Signalling of second Call Information

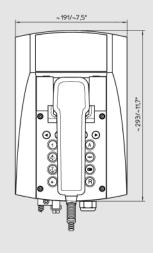
Calling Name Identification Name Display

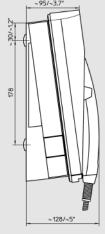
3 Party Conference 3 Party Conference of internal and/or external Subscriber

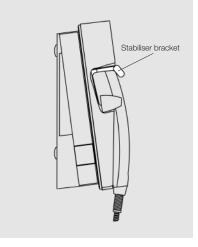
Calling Number Identification Display of Calling Number

Multiple Registrations up to 6 Registrations

Telephone Book Local, Integration of an External Database
Time/Date Exact Time and Date Information via Time Server







Order information

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

yellow red black 1 2 0

Туре	Name	Version	Art. No.*
FernTel IP / Zone 2 UL	Desk/Wall Telephone	with spiral cord	112 411 4
FernTel IP / Zone 2 UL	Desk/Wall Telephone	with armoured cord	112 431 4

Subject to change without notice \cdot Printout 11/13

