Crouse-Hinds by **FAT-N** 

# VoIP desk/wall telephone for areas with explosive atmospheres Zone 2 & 22



### Introduction

This impact-resistant and shockproof polycarbonate telephone is approved for zone 2 / 22 according to ATEX.

Due to its striking signal colour the FernTel IP cannot be missed; useful for whenever a telephone is urgently needed.

The FernTel IP's impact-proof thermoplastic housing and stainless steel screws offer further advantages when installing the phone in explosive or humid atmospheres.

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 keypad 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.

### Features

- Protection degree IP 65 EN 60529
- Ambient temperature -20°C to +55°C .
- Call tone  $\geq$  95 dB(A), 1 m
- Explosion protection class II 3G Ex nA nL IIC T5 II 3D Ex tD A22 IP66 T80°C
- Pixel-based, illuminated LCD Display н.
- Illuminated keypad .
- Intelligent and user-friendly menu structure
- Standard H.323, SIP, TSIP, SIPS protocols
- Power supply Power over Ethernet
- 1x Ethernet: RJ-45, 10/100-BASE-TX

#### Application Example:

Telephones for 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.





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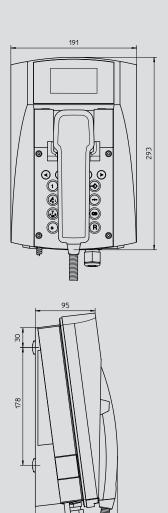
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# Certification and Specification

Certification II 3G Ex n An L II C T5, II 3D Ex tD A22 IP66 T80°C.   Protection Degree: acc. to IEC60529 IP 65.   Temperature Range: -20°C to - 60°C.   Housing: Polycarbonale.   Keypad: With stainless stele plate.   Housing Dimensions: Height X Width x Depth 293 x 191 x 128 mm.   Weight approx. 2.4 kg.   Power Supply: Power over Ethernet (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 x64 Pixel.   Protocol: H.323 version 4 incl. H.225, H.235, H.245 and RAS Gatekeeper   Total: H.323 version 4 incl. H.225, H.235, H.245 and RAS Gatekeeper   DTMF: H.245 Aphanumeric or Signal Type.   Additional VoIP-Features: H.245 Fast Connect En-block dialling Overlapped Sending.   Security: Password Protected Administration.   Encoding: G.714 A-law / µ-law (64 kbps), G.723.1 (5.3 kbps), G.723.1 (5.3 kbps), G.723.4 (64 kbps).   Carees: Via HTML Web-Browser.   Password Protected administration. Protected. Administration.   Toubleshooting: Configuration recording/reading.   B	Oculification			
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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 VolP-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:PPPDE 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:Call Hold / Retrieve.Call Hold / Retrieve.Call Hold / Retrieve.Call Waiting:Call Waiting inclusive Signalling of second Call Information.Calling Name Identification: 3 Party Conference of internal and/or external	Total:			
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DTMF:H.245 Alphanumeric or Signal Type.Additional VolP-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 SNMPTraps 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.CMP:Internet Control Message Protocol – for Ping tests.Dial Tone Generation:Call Transfer with/without consultation call.Call Diversion:Call Diversion Unconditional, Busy, No Reply.Call Hold / Retrieve:Call Waiting inclusive Signalling of second Call Information.Calling Number Identification: 3 Party Conference:S Party Conference of internal and/or external Subscriber.Display of Calling Number.up to 6 Regist		,		
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ALL DIMENSIONS IN MILLIMETRES

# Ordering Information

For ATEX and IECEx certified units the full article number is made up by appending the colour code for the coloured housing to the article number given here (-). Yellow 1 | Red 2 | Grey 7\* | Black 0 | For Inmetro certified units, please add (45) to the article no.

Туре	Name	Version	Language	Article no.
FernTel IP / Zone 2/22	Desk/Wall Telephone	with spiral cord	Multi	F112 411 2 (45)(-)
FernTel IP / Zone 2/22	Desk/Wall Telephone	with armoured cord	Multi	F112 431 2 (45)(-)
FernTel IP / Zone 2/22	Stabiliser bracket			F112 390 00
UL Versions				
FernTel IP/Zone 2/22	Desk/Wall Telephone	with spiral cord	Multi	F112 411 4(-)
FernTel IP/Zone 2/22	Desk/Wall Telephone	with armoured cord	Multi	F112 431 4(-)

All specifications, dimensions, weights and tolerances are nominal (typical) and MEDC reserve the right to vary all data without prior notice. No liability is accepted for any consequence of use.

