CROUSE-HINDS SERIES

Ex-Telephone FernTel 3 IP Z2

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

Overview

The FernTel 3 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.

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 Fern IP Z2 cannot be missed whenever a telephone is urgentby needed.

The use of an impact-resistant thermoplastic housing and stainless steel screws, gives even more advantages to the FernTel IP Z2.

This telephone may be converted from a wall mounted device to a desk telephone and vice versa simply. The FernTel IP allows for effective working with well-designed ergonomics and the illuminated keypad and display make operation simple. The Ethernet connectivity with the internal 2-port switch allows the user to connect a laptop in an outdoor area.

Features

- Protection class IP 65 according to IFC60529
- Ambient temperature -20°C to +60°C
- call tone ≥ 95 dB(A) in 1 m distance
- Protection class
 II 3G Ex nA ic IICT5 Gc
 II 3D Ex tc ic IIICT80°C Dc
- Pixel-based, illuminated LCD display
- Illuminated keypad
- Intelligent and user-friendly menu structure
- Standard protocols H.323, SIP, TSIP, SIPS and H.450
- Power supply Power over Ethernet
- Connection to single RJ45 Port 10/100 BASE-T Ethernet LAN







FHF Funke + Huster Fernsig GmbH Gewerbeallee 15-19 D-45478 Mülheim an der Ruhr

Telephone +49-208-82 68-0 Fax +49-208-82 68-286 http://www.eaton.com/telephones © 2022 Eaton All Rights Reserved Printed in UK Publication No.DSFH0005/B January 2022

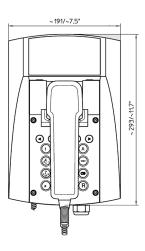
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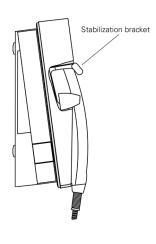
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Certifications			
Protection type	I 3G Ex nA ic IICT5 Gc		
Protection type	II 3D Ex to ic IIICT80°C Dc		
Technical data			
Power supply	Power over Ethernet according to IEEE 802.3af		
Connection	RJ45 Port 10/100-BASE-T Ethernet LAN		
Ringing volume	ca. 95 dB(A) in 1 m distance		
Housing			
Material	Polycarbonat		
Height x width x depth	293 mm x 191 mm x 128 mm		
Weight	ca. 2.4 kg		
Operating position	Desk or vertical wall mounting		
Keypad	Plastic with stainless steel plate		
Display	128 x 64 pixel		
Operating temperature	-20 °C to +60 °C		
Protocols Protection	IP65 according to IEC60529		
Protocols	H.323, SIP, TSIP, SIPS and H.450		
General	H.323 version 4 including H. 225, H.235, H.245 and RAS Gatekeeper routed signalling, H.450 Session Intiation Protocol		
	(SIP) RTP, SRTP real time protocol – for voice data transfer		
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 Enblock dialing Overlapped sending		
Security	Encoded password authorization according to H.235		
Quality of Service	Prioritization of IP packkages over TOS and DiffServ VLAN priority according to IEEE 802.1p/802.1q		
Voice encoding	G.711 A-law/µ-law (64 kbps), G.723.1 (5.3 kbps), G.729A (16 kbps)		
Echo Compensation	G.168		
Access	Via HTML Web Browser Passwor-protected with secure authentication		
Troubleshooting	Log and trace files, status displays of interfaces a connections ping connection test for internet protocol, 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	Tunneling with PPTP encoding via MPPE		
NAT	Network Address Translation – for translation of oficial IP addresses into non-official addresses and vice versa		
DHCP	Dynamic Host Configuration Protocol – IP Interfaces settings		
ICMP	Internet Control Message Protocol – for ping tests		
Call Tone Generation	Automatic call tone generation according to European and US standard		
Call Transfer	Call Transfer, in all usual variants: with/without consultation call,before/after answer etc.		
Call Diversion	Call diversion/redirection		
Call Hold	Call hold/retrieve		
Call Waiting	Call Waiting, with respective indication to calling subscriber		
Message Waiting	Message display on telephone		
Name Display	To determine the displayed name		
Three-party Conference	With 3 subscribers, also external subscribers		
Caller ID	For separate indication of call numbers or groups		
Multiple Registration	Up to 6 registrations		
Telephone Book	Automatic availability of all registrations in central telephone book, Integration of external data bases via LDAP		
Time	Exact time information via time server access		







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.

Туре	Designation	Model	ArtNo.
FernTel IP Z2	Desk/Wall Telephone	with spiral cord	FHF 112 411 2*
FernTel IP Z2	Desk/Wall Telephone	With armoured cord	FHF 112 431 2*
Accessories			
Stabilization bracket			FHF 112 390 00

yellow	1
red	2
grey	7
black	0