# ExResistTel IP4 explosion proof **VoIP-Telephone**

Explosion-proof, weatherproof industrial VoIP telephone for use in potentially explosive areas (zone 1, 2, 21 and 22)



**CROUSE-HINDS** 

#### **Overview**

With approved technology of FHF, the ExResistTel IP4 is suitable for all indoor and outdoor installations.

The new ExResistTel IP4 is the ideal device for every weather and a number of different operation sites. including exposure to seawater, high humidity or extensive mechanical strain. The housing is made of impact and shock-resistant glass-fibre reinforced polyester, it is resistant to acids, alkalis or lubricants.

Its robust design represents a perfect packaging for the latest requirements for IP telephones in hazardous environments with proven reliability for critical mission communications and high safety applications.

This telephone is designed to provide ultimate user comfort with a userfriendly menu structure and easy installtion. The ExResistTel IP4 meets industrial standards and has decades of marketing leading expertise. It features a luminous display that is able to function in ultra low temperatures mode of expression, a connectable headset is available as an accessory and a hands-free operation.

Powering Business Worldwide

#### **Features**

- Protection class IP66 according to IEC60529
- Ambient temperature -40 °C to +60 °C with armoured cord -30 °C to +60 °C with spiral cord
- Ring tone  $\geq$  95 dB(A) in 1 m distance
- Pixel-based luminous OLED display
- V4A alphanumeric keypad
- User-friendly menu structure
- VoIP Protocols: SIP, H.323 (UDP, TCP, TLS), RTP, SRTP (SDES, DTLS), RTCP, ICE
- Power supply: PoE or external
- Connection to 10/100-BASE-T Ethernet
- Hands-free operation
- Two built-in independent relay contacts



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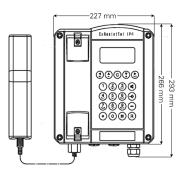
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All specifications, dimensions, weights and tolerances are nominal (typical) and Eaton reserve the right to vary all data without prior notice. No liability is accepted for any consequence of use

Durate stations to sure						
Protection type	II 2G Ex eb ib mb (ib Gb) IIC T4 Gb					
Approval		I 2D Ex ib tb [ib Db] IIIC T130°C Db PTB 12 ATEX 2025 X / IECEx PTB 13.0007X				
	FID 12 AIEA 2020 A / IEGEX FIB 13.0007A					
Technical feature						
Power supply	Power over Ethernet according to IEEE 802.3af/at (Mode B) or 802.3bt					
	44V min, 57V max					
Voltage external power	22,8 VDC - 52,8 VDC					
Power consumption	4 W (POE class 0)					
Connection	Port (10/100 Mbit/s)					
Ringing volume	$\geq$ 95 dB(A) in 1 m distance					
Housing	Class fibra rainferoad polyastar					
Material		Glass fibre-reinforced polyester				
Height x width x depth		293 x 227 x 135 mm				
Weight (standard model)		Approx. 5,000 g				
Display		182 x 64 pixels (OLED)				
Operating position	vertical					
Relay switching capacity	250 VAC	5 A	100 VA			
	30 VDC	5 A	100 Watt			
	230 DVC	0.5 A	100 Watt			
	50 VDC	1 A	50 Watt			
Handset						
Mouthpiece	Electret microp	ohone				
Earpiece	Dynamic capsule with magnetic field generator for inductive coupling of hearing aids					
Stabilization bracket	Standard equipment					
Environmental conditions						
Ambient temperature	-40°C to +60 °C	C for devices with	steel armoured cord			
•	-30 °C to +60 °C for devices with polyurethane spiral					
Protection class	cord IP 66 according to IEC 60529					
	IK 09 according to EN IEC 62262:2002					
Impact resistance	IK 09 according	J 10 EN IEC 02202				
•	IK 09 according	J 10 EN IEC 02202				
Impact resistance Characteristics Protocols		-				
Characteristics		SIP, H.323 (UDP,				
Characteristics Protocols	VoIP Protocols: In-Band, Out-O	SIP, H.323 (UDP, f-Band, Event				
Characteristics Protocols DTMF	VoIP Protocols: In-Band, Out-O H.245 fast con	SIP, H.323 (UDP, f-Band, Event nect enblock dialir	TCP, TLS), RTP, SRTP (SDES, DTLS), RTCP, ICE			
Characteristics Protocols DTMF Additional VoIP features	VoIP Protocols: In-Band, Out-O H.245 fast con	SIP, H.323 (UDP, f-Band, Event nect enblock dialir	TCP, TLS), RTP, SRTP (SDES, DTLS), RTCP, ICE			
Characteristics Protocols DTMF Additional VoIP features Security	VoIP Protocols: In-Band, Out-O H.245 fast com Encoded passv 802.1X Prioritization of	SIP, H.323 (UDP, f-Band, Event nect enblock dialir vord authenticatic	TCP, TLS), RTP, SRTP (SDES, DTLS), RTCP, ICE ng overlapped sending in according to H.235 TOS and DiffServ,			
Characteristics Protocols DTMF Additional VoIP features Security Quality of service	VoIP Protocols: In-Band, Out-O H.245 fast com Encoded passv 802.1X Prioritization of VLAN priority a	SIP, H.323 (UDP, f-Band, Event nect enblock dialir vord authenticatic IP packages over ccording to IEEE	TCP, TLS), RTP, SRTP (SDES, DTLS), RTCP, ICE ng overlapped sending in according to H.235 TOS and DiffServ,			
Characteristics Protocols DTMF Additional VoIP features	VoIP Protocols: In-Band, Out-O H.245 fast com Encoded passv 802.1X Prioritization of VLAN priority a G.711 A-law/µ-I Access using h	SIP, H.323 (UDP, f-Band, Event nect enblock dialin vord authenticatic IP packages over iccording to IEEE aw, G.729A, G.72	TCP, TLS), RTP, SRTP (SDES, DTLS), RTCP, ICE ng overlapped sending in according to H.235 TOS and DiffServ, 802.1p/802.1q 2, OPUS (NB/WB)			
Characteristics Protocols DTMF Additional VoIP features Security Quality of service Voice codecs	VoIP Protocols: In-Band, Out-O H.245 fast com Encoded passv 802.1X Prioritization of VLAN priority a G.711 A-law/µ-I Access using h Password-prote Log and trace f	SIP, H.323 (UDP, f-Band, Event nect enblock dialir vord authenticatic IP packages over ccording to IEEE aw, G.729A, G.72 ttps, acted with secure	TCP, TLS), RTP, SRTP (SDES, DTLS), RTCP, ICE ng overlapped sending in according to H.235 TOS and DiffServ, 802.1p/802.1q 2, OPUS (NB/WB) authentication s displays of interfaces and connections			
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Characteristics Protocols DTMF Additional VoIP features Security Quality of service Voice codecs Administration Diagnostic tools Updates	VoIP Protocols: In-Band, Out-O H.245 fast com Encoded passv 802.1X Prioritization of VLAN priority a G.711 A-law/µ-I Access using h Password-prote Log and trace f Ping connectio Configuration r Boot code and	SIP, H.323 (UDP, f-Band, Event nect enblock dialir vord authenticatic IP packages over iccording to IEEE aw, G.729A, G.72 ittps, ected with secure files (pcap), status n test, sending of ecording/reading firmware update ate via update ser	TCP, TLS), RTP, SRTP (SDES, DTLS), RTCP, ICE ng overlapped sending in according to H.235 TOS and DiffServ, 802.1p/802.1q 2, OPUS (NB/WB) authentication c displays of interfaces and connections SNMP traps			
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Characteristics Protocols DTMF Additional VoIP features Security Quality of service Voice codecs Administration Diagnostic tools Updates DSL access	VoIP Protocols: In-Band, Out-O H.245 fast com Encoded passv 802.1X Prioritization of VLAN priority a G.711 A-law/µ-I Access using h Password-prote Log and trace f Ping connection Configuration r Boot code and Automatic upda PPPoE protococ PPP over PPPo	SIP, H.323 (UDP, f-Band, Event nect enblock dialin vord authentication IP packages over according to IEEE aw, G.729A, G.72 https, acted with secure files (pcap), status n test, sending of ecording/reading firmware update ate via update ser of pE/PPTP	TCP, TLS), RTP, SRTP (SDES, DTLS), RTCP, ICE ng overlapped sending in according to H.235 TOS and DiffServ, 802.1p/802.1q 2, OPUS (NB/WB) authentication e displays of interfaces and connections SNMP traps via Webinterface ver			
Characteristics Protocols DTMF Additional VoIP features Security Quality of service Voice codecs Administration Diagnostic tools Updates DSL access VPN DHCP	VoIP Protocols: In-Band, Out-O H.245 fast com Encoded passv 802.1X Prioritization of VLAN priority a G.711 A-law/µ-I Access using h Password-prote Log and trace f Ping connectio Configuration r Boot code and Automatic upda PPPoE protoco PPP over PPPc Client with priv	SIP, H.323 (UDP, f-Band, Event nect enblock dialir vord authenticatic IP packages over according to IEEE aw, G.729A, G.72 ttps, acted with secure files (pcap), status n test, sending of ecording/reading firmware update ate via update ser of pE/PPTP vate option codes	TCP, TLS), RTP, SRTP (SDES, DTLS), RTCP, ICE ng overlapped sending in according to H.235 TOS and DiffServ, 802.1p/802.1q 2, OPUS (NB/WB) authentication e displays of interfaces and connections SNMP traps via Webinterface ver			
Characteristics Protocols DTMF Additional VoIP features Security Quality of service Voice codecs Administration Diagnostic tools Updates DSL access VPN DHCP Call tone generation	VoIP Protocols: In-Band, Out-O H.245 fast com Encoded passv 802.1X Prioritization of VLAN priority a G.711 A-law/µ-I Access using h Password-prote Log and trace f Ping connectio Configuration r Boot code and Automatic upda PPPoE protoco PPP over PPPc Client with priv	SIP, H.323 (UDP, f-Band, Event nect enblock dialir vord authenticatic IP packages over iccording to IEEE aw, G.729A, G.72 ttps, acted with secure files (pcap), status n test, sending of ecording/reading firmware update ate via update ser of pE/PPTP vate option codes tone generation a	TCP, TLS), RTP, SRTP (SDES, DTLS), RTCP, ICE ng overlapped sending in according to H.235 TOS and DiffServ, 802.1p/802.1q 2, OPUS (NB/WB) authentication a displays of interfaces and connections SNMP traps via Webinterface ver			
Characteristics Protocols DTMF Additional VoIP features Security Quality of service Voice codecs Administration Diagnostic tools Updates DSL access VPN DHCP	VoIP Protocols: In-Band, Out-O H.245 fast com Encoded passv 802.1X Prioritization of VLAN priority a G.711 A-law/µ-I Access using h Password-prote Log and trace f Ping connectio Configuration r Boot code and Automatic upda PPPoE protoco PPP over PPPo Client with priv Automatic call Up to 6 registr	SIP, H.323 (UDP, f-Band, Event nect enblock dialin vord authenticatic IP packages over iccording to IEEE aw, G.729A, G.72 https, acted with secure files (pcap), status n test, sending of ecording/reading firmware update ate via update ser b pE/PPTP vate option codes tone generation a ations	TCP, TLS), RTP, SRTP (SDES, DTLS), RTCP, ICE ng overlapped sending in according to H.235 TOS and DiffServ, 802.1p/802.1q 2, OPUS (NB/WB) authentication a displays of interfaces and connections SNMP traps via Webinterface ver			



## Ordering requirements

Туре	Designation	Mode	Article number		
ExResistTel IP4	VoIP telephone	black with armoured cord	FHF 114 422 220		
ExResistTel IP4	VoIP telephone	red with armoured cord	FHF 114 422 222		
ExResistTel IP4	VoIP telephone	black with spiral cord	FHF 114 422 210		
Accessories					
	Ex headset		FHF 112 861 04		
	Ex II secondary sounder		FHF 211 842 06		
	Telephone hood model 404	galvanized steel, yellow	FHF 118 901 01		
	Telephone hood model 404	V4A stainless steel	FHF 118 901 11		
	Telephone hood model 404	synthetic material, orange	FHF 118 901 12		
	Telephone hood model 404	synthetic material, yellow	FHF 118 901 13		
	Telephone hood model 404	galvanized steel, red	FHF 118 901 14		
	Telephone hood model 404	synthetic material, red	FHF 118 901 15	transparent	
	Telephone hood model 404	GRP, yellow	FHF 118 901 22	red	
	Telephone hood model 404	GRP, orange	FHF 118 901 23	amber	
	Console for model	Yellow	FHF 118 901 03	green	
	TWIN-EExII		FHF 118 833*	blue	

\* The full article number for the TWIN EExII is made up by appending the colour code to the article numbers given beside.

### Accessories

Ex headset



Protection hood





