

# EXRESISTTEL IP4 VOIP TELEPHONE

Zones 1, 2, 21, 22

Full catalogue available on our website: [www.inpratex.com](http://www.inpratex.com)

## ATEX COMMUNICATIONS

## ZONES 1, 2 (gas) & 21, 22 (dust)



The ExResistTel IP4 Explosion-proof, weatherproof industrial VoIP telephone 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, 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 installation.

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.



EU-Type Examination Certificate

### ITEM REFERENCES

Designation:	Operating temperature:	Item No.:
ExResistTel IP4 - Black with armoured cord	-40°C to +60°C	4A0105
ExResistTel IP4 - Red with armoured cord	-40°C to +60°C	4A0106
ExResistTel IP4 - Black with spiral cord	-30°C to +60°C	4A0107

### TECHNICAL SPECIFICATIONS

Marking:	II 2G Ex eb ib mb [ib Gb] IIC T4 Gb II 2D Ex ib tb [ib Db] IIIC T130°C Db
Certificate:	EU-Type Examination Certificate
Operating temperature:	-40°C to +60°C for devices with steel armoured cord -30°C to +60°C for devices with polyurethan spiral cord
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:	≥ 95 dB(A) in 1 m distance
Housing:	Glass fibre-reinforced polyester
Ingress protection:	IP66 according to IEC60529
Impact resistance:	IK 09 according to EN IEC 62262:2002
Weight:	Approx. 5 kg
Dimensions:	293 x 227 x 135 mm
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 microphone Earpiece: Dynamic capsule with magnetic field generator for inductive coupling of hearing aids Stabilization bracket: Standard equipment

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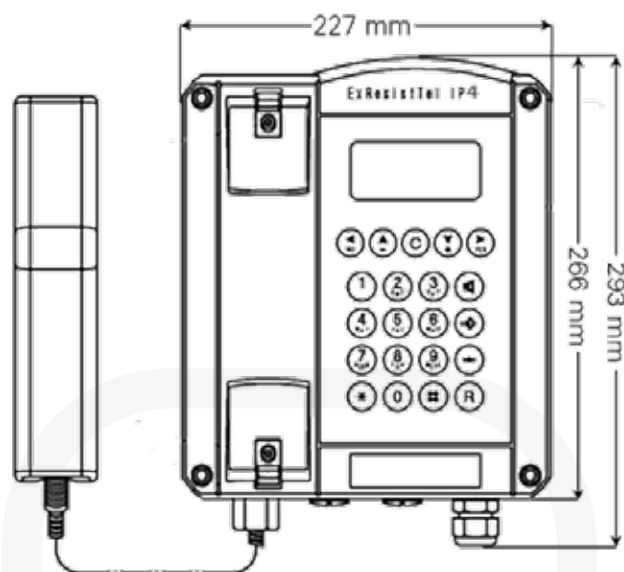
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## CHARACTERISTICS

Protocols:	VoIP Protocols: SIP, H.323 (UDP, TCP, TLS), RTP, SRTP (SDS, DTLS), RTCP, ICE
DTMF:	In-Band, Out-Of-Band, Event
Additional VoIP features:	H.245 fast connect enblock dialing overlapped sending
Security:	Encoded password authentication according to H.235 802.1X
Quality of service:	Prioritization of IP packages over TOS and DiffServ, VLAN priority according to IEEE 802.1p/802.1q
Voice codecs:	G.711 A-law/ $\mu$ -law, G.729A, G.722, OPUS (NB/WB)
Administration:	Access using https, Password-protected with secure authentication
Diagnostic tools:	Log and trace files (pcap), status displays of interfaces and connections Ping connection test, sending of SNMP traps
Updates:	Configuration recording/reading Boot code and firmware update via Webinterface Automatic update via update server
WDSL acces:	PPPoE protocol
VPN:	PPP over PPPoE/PPTP
DHCP:	Client with private option codes, server mode
Call tone generation:	Automatic call tone generation according to European and US standard
Multiple registration:	Up to 6 registrations
Telephone book:	Internal, centralized (optional), integration of external data bases via LDAP
Time:	From NTP

## ACCESSORIES

Designation:	Item No.:
Ex headset	4A010A
Ex II secondary bell (see next page)	4A010B
Telephone hood model 404 galvanized steel, yellow	118 901 01
Telephone hood model 404 V4A stainless steel	118 901 11
Telephone hood model 404 synthetic material, yellow	118 901 13
Telephone hood model 404 galvanized steel, red	118 901 14
Telephone hood model 404 GRP, yellow	118 901 22
Telephone hood model 404 GRP, orange	118 901 23
Console for model Yellow	118 901 03
TWIN-EEexII	See data sheet available on our website



## ACCESSORIES

Ex headset	TWIN-EEexII	Protection hood
		

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## Explosion-proof Secondary Telephone Bell

This high-volume, explosion-proof secondary telephone bell is designed for indoor and outdoor applications in potentially explosive industrial areas, e.g in the petrochemical industry. **Certified for zones 1,2.**

The high-quality materials have priority been tested in the laboratory and allow for uses in extreme application areas of the Ex II industry.

The user may choose between single tone, 2-tone, 3-tone or warble-tone using the available DIP switches. Moreover, the tone sequence frequency can be set in 4 steps between 5 and 20 Hz.




EU-Type Examination Certificate

### ITEM REFERENCES

Designation:	Nominal voltage:	Item No.:
Explosion-proof Secondary Telephone Bell	Supplied via telephone	4A010B

### TECHNICAL SPECIFICATIONS

Marking:	 II 2G Ex em [ib] IIC T6
Certificate:	EU-Type Examination Certificate
Operating temperature:	-20°C to +40°C
Housing:	Die-cast aluminium
Colour:	Black
Hood:	UV-resistant macrolon (polycarbonat)
Ingress protection:	IP66 according to EN 60529
Operating position:	Wall or ceiling mounting
Weight:	0.5 kg
Secondary telephone bell:	The electronic high-volume secondary bell is operational even in case of a power failure. It is supplied by the telephone's ringing voltage.
Terminal designation:	W, L <sub>b</sub>
AC ringing voltage:	32 VAC ... 75 VAC
Overlaid supply voltage:	0 VDC ... 63 VDC
Input impedance:	1At 25 Hz Z ≥ 8 kΩ At 50 Hz Z ≥ 4 kΩ
Acoustic signalling device:	Loudspeaker
Acoustic signal:	Single tone-, 2-tone, 3-tone, warble tone, selectable via DIP switch
Tone sequence frequency:	4 settings between 5 Hz and 20 Hz selectable via DIP switch
Volume:	Approx. 90 dB(A) in 1 m distance

