ExResistTel

explosion-proof, weatherproof
Industrial telephone

- Handsfree
- Temperature range -25°C to +60°C
- Certified for dust and gas atmospheres

ATEX

FHF
FUNKE+HUSTER·FERNSIG

Protecting People

Robust, explosion-proof, weatherproof telephone system for rugged ambient conditions

Ex ResistTel

AREAS OF USE

Communication devices for use in hazardous areas in the industry have to be especially well adapted to the extreme operating conditions they will be exposed to.

Our new Ex-telephone has been developed for operation in the petrochemical industry, on off-shore plants, in mills and harbours, which means it is resistant to large temperature differences, air humidity, sea water, dust and strong mechanical wear and tear. It is certified for use in hazardous dust and gas atmospheres.

The Ex-ResistTel is completely programmable, and has been equipped with a 21-piece stainless (V4A) steel keypad designed for use with gloves. Letters and figures are presented clearly on the alphanumerical display. The Ex-ResistTel also boasts all the convenient features that have become standard in the field of office communication.

A string of optional extras and components – especially certified for hazardous areas – makes our telephone even more functional.

Our Ex-ResistTel is the correct decision for a safe connection – convenient and reliable in hazardous areas.

Display

The two uppermost lines display the number or the menu settings. The lower line displays pictograms that correspond to the functions.

Menu language optional German or English (Please ask us about any other languages.)

Function keys

Using these keys you may alter settings directly or make permanent changes to settings in the menu.

Loudspeaker button

This button switches the loudspeaker or the handsfree operation feature on/off.

Disconnect key

Disconnect a call using this key.

Last number redial

Use this key to redial any one of the last dialed numbers.

Inquiry key

With this key the functions of the PABX will be activated (flash).

Handsfree operation

Number keys

Use these keys to enter telephone numbers or texts.

Stabilizer bracket

integrated and adjustable

Noise suppression

integrated mouth-piece horn mouth

Option

customized Logo on request

Version without keypad

Emergency telephone – connects directly to the main PABX.

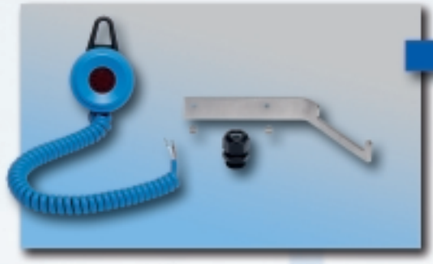
MAIN PERFORMANCE DATA

- Protection IP 66
- Impact protection IK 09
- Operations temperature -25°C to +60°C
- Stainless steel (V4A) keypad
- Steel armoured handset cord with snap-protection
- Sound pressure level approx. 90 dB(A)
- Receiver volume can be boosted in 7 steps from 0 – 12 dB(A)
- Integrated adjustable stabilizer bracket
- Connections for external loudspeaker
- Handsfree operation
- Telephone directory

SYSTEM ACCESSORIES

HEADSET

- For Ex-ResistTel
- Designed for use in noisy work environments
- Extensive freedom of movement
- You may work with both hands



ADDITIONAL EARPIECE

- For Ex-ResistTel
- Designed for use in noisy work environments
- A second person may listen in
- Protect both your ears against work noise

LOUDSPEAKER SET

- For Ex-ResistTel
- For additional ringing signal and voice broadcasting
- Supports the handsfree operation

SECONDARY SOUNDER

EEx-telecommunications-signal-combination

- Explosion-proof optical and acoustic telephone secondary sounder for loud work environments
- ATEX-certified

SECONDARY SOUNDER

EEx acoustic secondary sounder

- High power explosion-proof secondary sounder for indoors and outdoors
- No additional power supply
- ATEX-certified

PROTECTION HOOD

- Acoustic hood for very loud work environments
- Noise reduction down to 25 dB(A)
- Galvanized iron plate or stainless steel

Technical Data

Connections

Types of protection	II 2 G EEx em[ib] IIC T5 II 2 D IP66 T100°C -25°C<=T_a<=60°C	II 2 G EEx em[ib] IIC T6 II 2 D IP66 T80°C -25°C<=T_a<=40°C
Approval	DMT 02 ATEX E 183	
Line voltage	24 V_{DC} to 66 V_{DC}	
Line current	15 mA_{DC} to 100 mA_{DC}	
Ringing alternating current	24 V_{AC} to 90 V_{AC} (at 21...54 Hz ringing frequency) 30 V_{AC} to 90 V_{AC} (at 16,6...54 Hz ringing frequency)	
Ringing impedance	Greater than 6,0 KΩ at 25 Hz and 24...90 V_{AC}. Greater than 4,0 KΩ at 50 Hz and 24...90 V_{AC}.	
Inquiry key	Flash function adjustable from 40ms to 399ms	
Dialling procedure	PD-DTMF operation to be set in the menu. DTMF operation according to the CCITT recommendation Q.23. PD operation where the pulse/pause ratio can be set to 1.5:1 or 2:1 in the menu.	
W-conductor	Connection for external secondary sounder.	
Screw terminals	Up to 4 mm^2 rigid. Up to 2.5 mm^2 flexible.	

Housing

Material	Glass-fibre-reinforced polyester
Height x Width x Depth	Approx. 266 mm x 227 mm x 135 mm
Weight	Approx. 5.5 kg
Display	2-line alphanumerical display with pictograms. Visible area approx. 78 mm x 26 mm.
Keypad	Metal keypad with ice protection. 21 keys with ABC lettering for name entries.

Receiver

Stabilizer bracket	Integrated, adjustable stabilizer bracket.
Handset cord	Stainless steel (V4A) armoured handset cord.
Receiver inset	Dynamic receiver inset with leakage field spool for inductive coupling of hearing aids.
Mouthpiece	Electret-foil microphone
Noise suppression	Greater than 3dB due to integrated mouthpiece horn mouth.

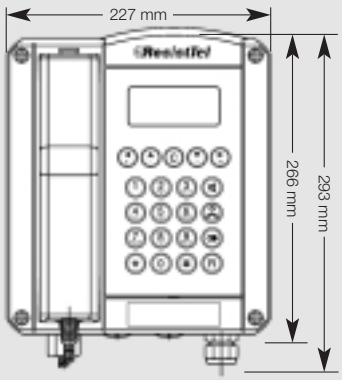
Environmental conditions

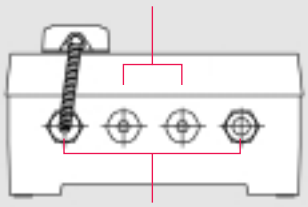
Degree of protection:	IP 66 according to EN60529
Impact protection:	IK 09 according to EN50102
Operation temperature:	-25°C to +60°C for temperature class T5 -25°C to +40°C for temperature class T6
Storage temperature:	-25°C to +70°C

Further characteristics

Optical call signalling	Display shows (((🔔)))
Ringing sound pressure level	Approx. 90 dB(A) at 1m distance
Ringing melodies	10 melodies selectable
Listening by loudspeaker	Maximum sound pressure level approx. 68 dB (A) at 1m distance.
Handsfree operation	Maximum sound pressure level approx. 68 dB (A) at 1m distance.
Amplified listening in receiver	Receiver volume can be boosted in 7 steps from 0–12 dB(A).
Menus	German and English
Telephone directory	Max. 50 entries (names and numbers)

Dimensions





Ordering Data

* The complete product number (P/N) can be found by combining the P/N and the colour code of the cap colours.

Type	Product name	Version	P/N
Ex-ResistTel	EEx II telephone		112 861 01
Ex-ResistTel	EEx II telephone ZB	without Keypad and Display	112 861 02
Accessories	EEx II additional earpiece		112 861 03
Accessories	EEx II additional headset		112 861 04
Accessories	EEx II loudspeaker set		112 861 05

Type	Product name	Version	P/N
Accessories	EEx II secondary sounder		211 842 06
Accessories	Protection hood	galvanized	118 901 01
Accessories	Protection hood	Stainless steel	118 901 11
Accessories	EEx II TWIN		118 833 ..*

Cap colours: transparent 01, red 02, yellow 03, green 04, blue 05

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