

## Explosion-proof, weatherproof Industrial telephone



### Introduction

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 Ex-telephone has been developed for operation in the petro-chemical industry, off-shore plants, and mills and harbours, meaning it is resistant to extreme temperatures, air humidity, sea water, dust and strong mechanical wear and tear. It is certified for use in hazardous dust and gas atmospheres.

The ExResistTel 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 alphanumeric display.

The ExResistTel 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 ExResistTel is the correct decision for a safe connection – convenient and reliable in hazardous areas.

### Features

- Handsfree
- Temperature range -25°C to +60°C
- Certified for dust and gas atmospheres
- Display
- IP 66 EN 60529
- different housing colours

### Application Example:

#### Offshore communication

The ExResistTel is completely programmable, and has been equipped with a 21-piece stainless (V4A) steel keypad designed for use with gloves.



# Certification and Specification

<b>Certification</b>	II 2 G EEx em [ib] IIC T5 Gb.	II 2 G EEx em [ib] IIC T6 Gb.
Types of protection:	II 2 D Ex tb [ib] IIIC T100°C Db -25°C Ta 60°C.	II 2 D Ex tb [ib] IIIC T80°C Db. -25°C Ta 40°C.
Approval:	DMT 02 ATEX E 183.	
Line voltage:	24 VDC to 66 VDC.	
Line current:	15 mADC to 100 mADC.	
Ringing alternating current:	24 VAC to 90 VAC (at 21...54 Hz ringing frequency). 30 VAC to 90 VAC (at 16,6...54 Hz ringing frequency)	
Ringing impedance:	Greater than 6,0 KΩ at 25 Hz and 24...90 VAC. Greater than 4,0 KΩ at 50 Hz and 24...90 VAC.	
Inquiry key:	Flash function adjustable from 40ms to 399ms.	
Dialling procedure:	PD-DTMF operation to be set in the menu. 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 <sup>2</sup> rigid. Up to 2.5 mm <sup>2</sup> flexible.	

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

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

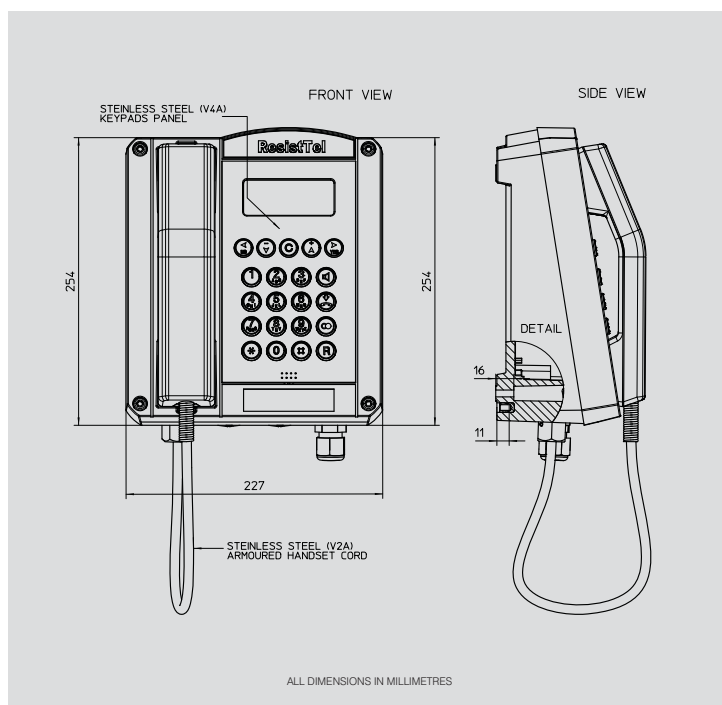
<b>Receiver</b>	Integrated, adjustable stabilizer bracket.
Stabilizer bracket:	Stainless steel (V4A) armoured handset cord.
Handset cord:	Dynamic receiver inset with leakage field spool for inductive coupling of hearing aids.
Receiver inset:	Mouthpiece: Electret-foil microphone.
Mouthpiece:	Noise suppression: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

<b>Further characteristics</b>	Optical call signalling: Display shows ((📞)).
Optical call signalling:	Ringing sound pressure level: Approx. 90 dB(A) at 1m distance.
Ringing sound pressure level:	Ringing melodies: 10 melodies selectable.
Ringing melodies:	Listening by loudspeaker: Maximum sound pressure level approx. 68 dB (A) at 1m distance.
Listening by loudspeaker:	Handsfree operation: Maximum sound pressure level approx. 68 dB (A) at 1m distance.
Handsfree operation:	Amplified listening in receiver: Receiver volume can be boosted in 7 steps from 0 -12 dB(A).
Amplified listening in receiver:	Menus: In several language.
Menus:	Telephone directory: Max. 50 entries (names and numbers).

## Ordering Information

For ATEX and IECEx units, the full article number is made up by appending the colour code for the coloured housing to the article number given here (--) . Transparent 11 | Red 12 | Amber 13 | Green 14 | Blue 15 | For Inmetro and UL certified units please add the following to the article number; (45) = Inmetro | (110) = UL

Type	Name	Version	Article no.
ExResistTel	ExII-Telephone	black	F112 861 01 (45) (110)
ExResistTel	ExII-Telephone	red	F112 861 0102
ExResistTel	ExII-Telephone	blue	F112 861 0105
ExResistTel	ExII-Telephone ZB	black	- without keypad and display F112 861 02 (45)
ExResistTel	ExII-Telephone ZB	red	- without keypad and display F112 861 0202
ExResistTel	ExII-Telephone ZB	blue	- without keypad and display F112 861 0205
ExResistTel	ExII-Telephone	black	- Protection class I F112 862 01
Accessories	ExII-Additional earpiece		F112 861 03
Accessories	ExII-Additional headset		F112 861 04
Accessories	ExII-Loudspeaker set		F112 861 05
Accessories	ExII-Secondary sounder		F211 842 06
Accessories	Protection hood	hot galvanized,	- yellow F118 901 01
Accessories	Protection hood	stainless steel	F118 901 11
Accessories	ExII-TWIN		F118 833 (--)



## Accessories



Additional headset



Additional earpiece



Loudspeaker set



TWIN Sounder/Beacon



Protection hood



Secondary sounder