

# Ex II ExResistTel Telephone

Analog explosion-proof, weatherproof industrial telephone for use in potentially explosive areas (zone 1 and 21)



## Overview

Communication devices for uses in firedamp-endangered industrial areas must be particularly adjusted to their extreme operating conditions.

Our Ex telephone has been specially designed for applications in the petrochemical industry, as well as offshore installations, mills and port facilities. It is resistant to high temperature differences, humidity, sea water, dust and extensive mechanical strain.

The ExResistTel is certified for areas susceptible to explosive dusts and gases. It is equipped with a 21-key V4A stainless steel keypad that has been especially designed for use with gloves.

Its alphanumeric display allows for a clear reading. This telephone offers all the amenities that are already supplied as standard in the office communication sector. A number of accessories and components especially certified for potentially explosive areas even enhance the telephone's functionality.

## Features

- Locking function with PIN
- Hands-free operation
- Temperature range -25°C to +60°C
- Certified for dust and gas exposure
- Display
- Degree of protection IP66 according to EN 60529
- Different housing colours



## Certifications

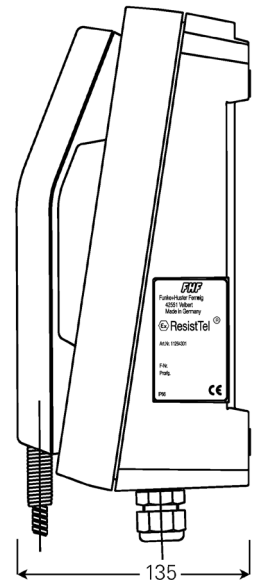
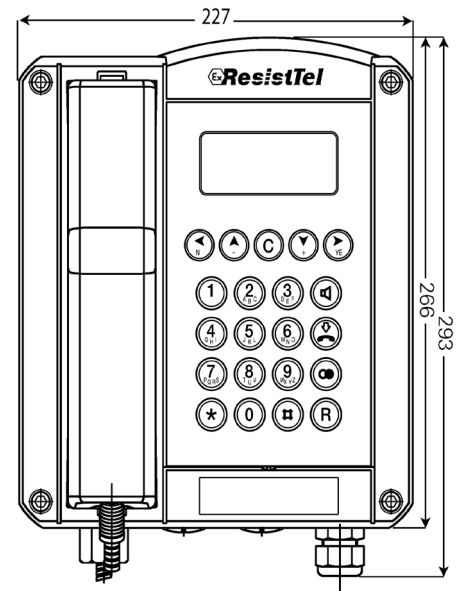
Protection type	II 2 G Ex e mb [ib] IICT5 Gb	II 2 G Ex e mb [ib] IIC T6 Gb
	II 2 D Ex tb [ib] IIIC T 100°C Db	II 2 D Ex tb [ib] IIIC T 80°C Db
	-25 °C < Ta < 60 °C	-25 °C < Ta < 40 °C

Approval	DMT 02 ATEX E 183
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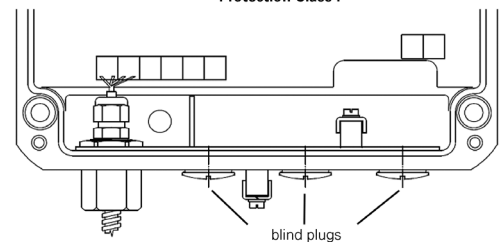
## Specifications

Line voltage	24 VDC to 66 VDC
Line current	15 mA to 100 mA
AC ringing voltage	24 VAC to 90 VAC (at 21...54 Hz ringing frequency) 30 VAC to 90 VAC (at 16.6...54 Hz ringing frequency)
AC ringing voltage 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 40 ms to 399 ms
Dialling procedure	Pulse Dialing and DTMF operation to be set in the menu. PD operation with pulse to pause ratio which 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>	
Degree of protection	IP 66 according to EN60529
Impact protection	IK 09 according to EN50102
Operating temperature	-25 °C to +60 °C for temperature class T5 (no display below -20 °C) -25 °C to +40 °C for temperature class T6 (no display below -20 °C)
Storage temperature	-25 °C to +70 °C
<b>Housing</b>	
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	Two-line alphanumeric display with pictograms Visual field approx. 78 mm x 26 mm
Keypad	Metal keypad with ice protection 21 keys with ABC lettering for name entries
<b>Receiver</b>	
Stabilization bracket	Integrated, adjustable stabilization bracket
Handset cord	Stainless steel armoured cord
Earpiece	Dynamic capsule with stray field coil for inductive coupling of hearing aids
Mouthpiece	Elektret microphone
Noise suppression	Greater than 3 dB due to integrated horn mouth
<b>Further characteristics</b>	
Optical call indication	Displayed depiction (( (🔔) ))
Ringing volume	Approx. 90 dB(A) in 1 m distance
Ring tones	10 sounds available
Listening by loudspeaker	Maximum volume approx. 68 dB(A) in 1 m distance
Handsfree operation	Maximum volume approx. 68 dB(A) in 1 m distance
Amplified listening	Receiver volume increase +0 dB(A) to +12 dB(A), in 7 steps
Menu guide	Multilingual
Telephone book	Max. 50 items (names and phone numbers)

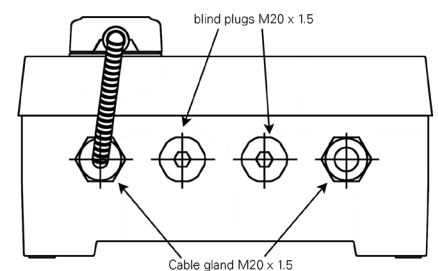
General arrangement (all dimensions in mm)



Protection Class I



Protection Class II



# Ordering requirements

Type	Designation	Model	Article number
ExResistTel	Ex II telephone	black	FHF 112 861 01
ExResistTel	Ex II telephone	red	FHF 112 861 01 02
ExResistTel	Ex II telephone ZB	without keypad and display, black	FHF 112 861 02
ExResistTel	Ex II telephone ZB	without keypad and display, red	FHF 112 861 02 02
ExResistTel	Ex II telephone	protection class I, black with blind plugs for metal cable gland M20 x 1.5, black	FHF 112 862 01
ExResistTel	Ex II telephone ZB	protection class I, black without keypad and display with blind plugs for metal cable gland M20 x 1.5, black	FHF112 862 02
Accessories			
	Ex II additional earpiece		FHF 112 861 03
	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
	Telephone hood model 404	GRP, yellow	FHF 118 901 22
	Telephone hood model 404	GRP, orange	FHF 118 901 23
	Floor mounting console for Model 404	yellow	FHF 118 901 03
	TWIN-EEExII		FHF 118 833 ..*

transparent	11
red	12
amber	13
green	14
blue	15

The full article number for the TWIN EEExII is made by appending the color code to the article numbers given adjacent \*

All ExResistTel models are ATEX and IECEx.

INMETRO and UL,variants are available on request.

## Accessories

Ex headset



Ex II additional earpiece



Ex II secondary sounder



TWIN EEExII



Protection hood