

Ex II telephone ExResistTel MB

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 MB is certified for areas susceptible to explosive dusts and gases.

It is equipped with a 21-key V4A stainless steel keypad that has been designed especially for use with gloves.

A number of accessories and components which are certified for potentially explosive areas are available to enhance the telephone's functionality. Three direct call keys can be used to immediately call e.g. emergency numbers. The keys may be programmed as required by the user.

Features

- 3 direct dial keys (freely programmable)
- Hands-free operation
- Temperature range -25°C to +60°C
- Certified for dust and gas exposure
- IP66 according to EN 60529
- V4A stainless steel keypad
- Glass-fibre reinforced polyester housing



Certifications

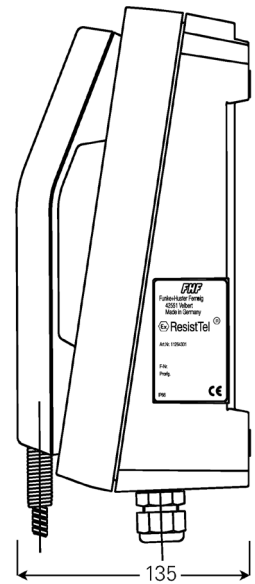
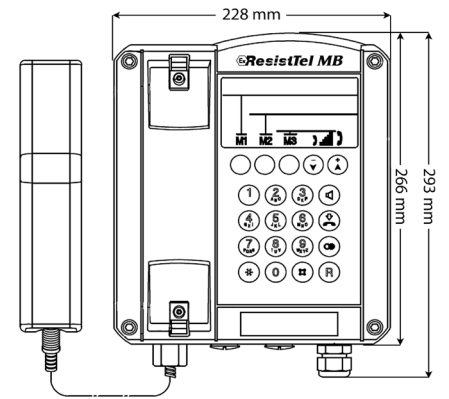
Protection type	II 2 G Ex e mb [ib] IIC T5 Gb	II 2 G Ex e mb [ib] IIC T6 Gb
	II 2 D Ex tb [ib] IIIC T100°C Db	II 2 D Ex tb [ib] IIIC T80°C Db
	-25 °C ≤ Ta ≤ 60 °C	-25 °C < Ta < 40 °C

Approval DMT 02 ATEX E 183

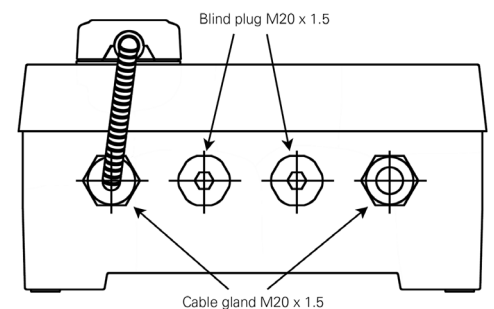
Specifications

Supply voltage	24 VDC to 66 VDC
Supply 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
Connection 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 228 mm x 135 mm
Weight	Approx. 5.5 kg
Keypad	
	Metal keypad with ice protection 21 keys with ABC lettering for name entries incl. 3 direct dial keys (freely programmable)
Receiver	
Stabilisation bracket	Integrated, adjustable stabilisation 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
Environmental conditions	
Protection class	IP66 according to EN60529
Impact protection	IK09 according to EN50102
Operating 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
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 to +12 dB(A), in 7 steps

General arrangement (all dimensions in mm)



Insulation class II



Ordering requirements

Type	Designation	Model	Article number	
ExResistTel MB	Ex II Telephone	black	FHF 112 861 21	
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	transparent 11
	Telephone hood model 404	GRP, yellow	FHF 118 901 22	red 12
	Telephone hood model 404	GRP, orange	FHF 118 901 23	amber 13
	Floor mounting console for Model 404	yellow	FHF 118 901 03	green 14
	TWIN-EExII		FHF 118 833 ..*	blue 15

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

The ExResistTel MB is certified to ATEX/IECEX.

Accessories

Ex Headset



Ex II Additional Earpiece



Ex II Secondary Sounder



TWIN EExII



Protection Hood