

# Ex II telephone ExResistTel MB

Explosion-proof, weatherproof  
industrial telephone



## 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 especially designed for use with gloves.

The Ex ResistTel MB is certified to DNV GL Marine and offshore standards.

A number of accessories and components especially certified for potentially explosive areas even enhance the telephone's functionality.

Three direct call keys can be used to quickly 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
- IP 66 according to EN 60529
- V4A stainless steel keypad
- GRP housing



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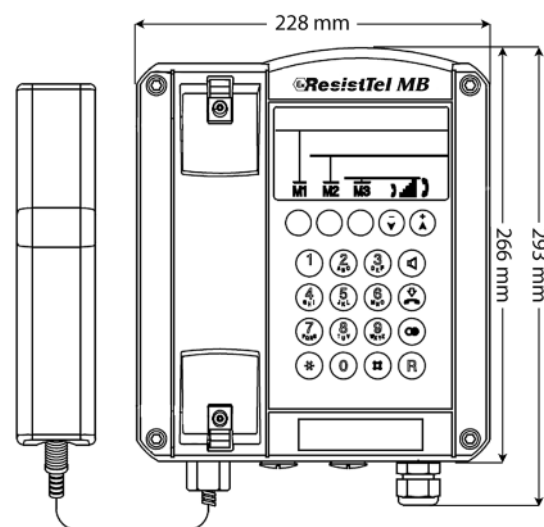
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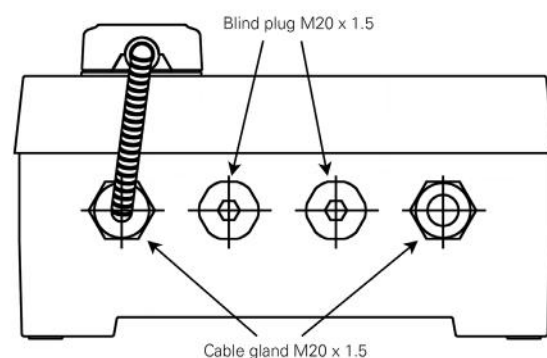
All specifications, dimensions, weights and tolerances are nominal (typical) and Eaton reserve the right to vary all data without prior notice.  
No liability is accepted for any consequence of use.

Certification		
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	
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)	
Ring tone 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 may be set to 80 ms, 120 ms, 600 ms	
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	
Connection terminals	Up to 4 mm² rigid, Up to 2.5 mm² 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	IP 66 according to EN60529	
Impact protection	IK 09 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	
Further characteristics		
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 in receiver	Receiver volume may be set from 0 dB(A) to +12 dB(A), in 7 steps	

General arrangement drawing (all dimensions in mm)



Insulation class II



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## Accessories



Ex headset



Ex II additional earpiece



Ex II secondary sounder



TWIN-EEExII



Protection hood

## Ordering data

The full article number for the coloured cap is made up by appending the colour code to the article numbers given below\*

Type	Designation	Model	Article number
ExResistTel MB	Ex II telephone	black	FHF 112 861 21
<b>Accessories</b>			
	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 ExResistTel MB is certified to ATEX/IECEX/DNV.

Accessories are not available as DNV variants.



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