

USER MANUAL MANUALE D'USO

ME 3801

- WALL MOUNT EMERGENCY MICROPHONE
- MICROFONO DI EMERGENZA DA PARETE



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SAFETY PRECAUTIONS



IMPORTANT NOTES

Before connecting and using this paging microphone, please read this instruction manual carefully and keep it on hand for future reference. The manual is to be considered an integral part of this product and must accompany it when changing ownership as a reference for correct installation and use as well as for the safety precautions. RCF S.p.A. will not assume any responsibility for the incorrect installation and / or use of this product.

SAFETY PRECAUTIONS

NOTE: according to EN 54-16 standard, paging microphones shall be only accessible by personnel having a specific responsibility for safety and who are trained and authorized to operate in the following conditions: quiescent, voice alarm, fault warning and disablement.

1. All the precautions, in particular the safety ones, must be read with special attention, as they provide important information.
2. Make sure all connections have been made correctly before switching all devices on.
Do not connect / disconnect paging microphones when the system is operating.
3. Protect paging microphone cables from damage and assure they are positioned where these cannot be stepped on or crushed by objects.
4. Do not put the paging microphone into water (or another liquid), do not throw it.
5. Never attempt to carry out any operations, modifications or repairs.
If the paging microphone does not work properly, contact your authorized service centre.
6. Should the paging microphone emit any strange smell or even smoke, turn the audio system off immediately and disconnect it.
7. **RCF S.P.A.** strongly recommends the sound system installation is only made by professional qualified installers (or specialised firms), who can certify it according to the regulations in force.
The entire audio system must comply with the current standards and regulations regarding electrical systems.
8. Mechanical and electrical factors need to be considered when installing a professional audio system (in addition to those which are strictly acoustic, such as sound pressure, angles of coverage, frequency response, etc.).
9. Do not point the microphone at near loudspeakers, in order to avoid feedback.

IMPORTANT NOTES



10. Hearing loss

Exposure to high sound levels can cause permanent hearing loss. The acoustic pressure level that leads to hearing loss is different from person to person and depends on the duration of exposure.

To prevent potentially dangerous exposure to high levels of acoustic pressure, anyone who is exposed to these levels should use adequate protection devices. When a transducer capable of producing high sound levels is being used, it is necessary to wear ear plugs or protective earphones.

11. To prevent inductive effects from causing hum, noise and a bad system operating, paging microphone cables should not be laid together with other electric cables (mains) and loudspeaker lines.

12. Keep the paging microphone far from any excessive heat source.

13. Do not use solvents, alcohol, benzene or other volatile substances for cleaning the external parts. Just use a dry cloth.

RCF S.P.A. THANKS YOU FOR PURCHASING THIS PRODUCT, WHICH HAS BEEN DESIGNED TO GUARANTEE RELIABILITY AND HIGH PERFORMANCES.

DESCRIPTION



ME 3801 is a wall mount emergency microphone exclusively dedicated for the RCF DXT 3000 system.

It can be directly connected to the MX 3250 / MX 3500 main unit through a four-pair J-type fire-rated cable.

ME 3801 can be installed together with other paging microphones BM 3804 and BM 3804FM (up to a maximum of 4, interlocked one another), and shall be the first in the line.

It is directly powered by the MX 3250 / MX 3500 main unit, while the other microphones (second, third and fourth) need 24 V dc adapters (500 mA, i.e. RCF AC AD 2405, optional).

The front panel includes only a protected bistable emergency button (with red light) to start playing the evacuation / alert message in all zones.

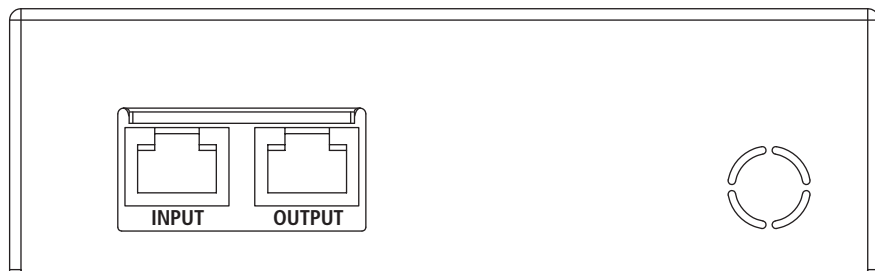
The system status is indicated by a LED bar.

Other features:

- handheld microphone with momentary switch with PTT function;
- comprehensive self-diagnostics (EN 54-16);
- connection cable included (5 m, with RJ 45).

IMPORTANT NOTE:

As the first paging microphone is for emergency purposes, this shall be placed in premises with access restricted to authorized personnel only.

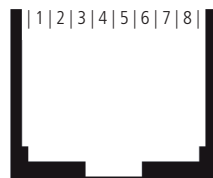


INPUT : RJ 45 port to be linked to either the MX 3250 / MX 3500 main unit **PAGING IN** or the previous BM 3804 paging microphone **OUTPUT**.

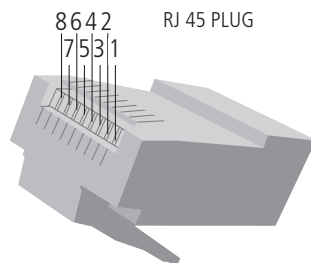
OUTPUT : RJ 45 port to be linked to the next BM 3804 paging microphone **INPUT**.

PIN	INPUT	PIN	OUTPUT
1	Audio signal (+, hot)	1	Audio signal (+, hot)
2	Audio signal (–, cold)	2	Audio signal (–, cold)
3	Power supply	3	(not used)
4	Ground	4	Ground
5	Ground	5	Ground
6	Ground	6	(not used)
7	RS 485 A (+)	7	RS 485 A (+)
8	RS 485 B (–)	8	RS 485 B (–)

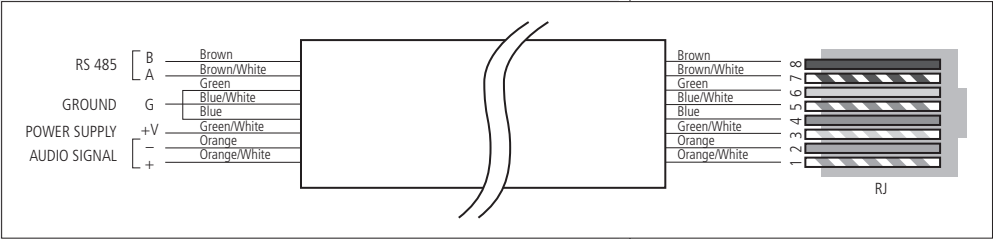
RJ 45 SOCKET



RJ 45 PLUG



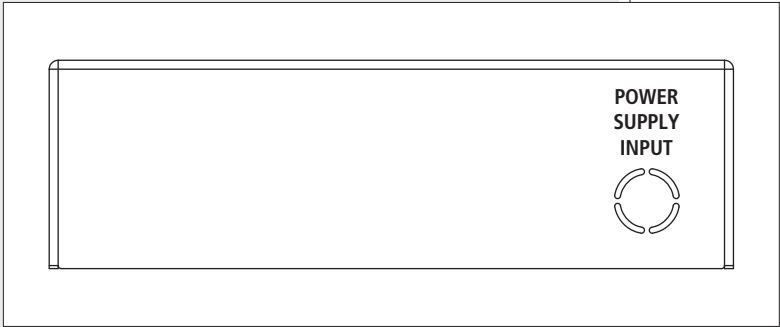
CABLE TO LINK ME 3801 EMERGENCY MICROPHONE
TO THE MX 3250 / MX 3500 MAIN UNIT



CORRESPONDENCE OF WIRES BETWEEN CAT 5E AND CJ 428E CABLES

PIN	DESCRIPTION	CAT 5e WIRE COLOUR	CJ 428e WIRE COLOUR
1	Audio signal (+, hot)	Orange/White	Red
2	Audio signal (–, cold)	Orange	Blue
3	Power supply	Green/White	Yellow
4	Ground	Blue	Brown
5	Ground	Blue/White	Green
6	Ground	Green	Grey
7	RS 485 A (+)	Brown/White	White
8	RS 485 B (–)	Brown	Black

POWER SUPPLY INPUT: input for the external 24 V dc adapter (500 mA, i.e. optional RCF AC AD 2405), not included; remove the protection to access the connector.



ME 3801 allows to make general calls only, with priority over all other inputs.

NORMAL SYSTEM CONDITION

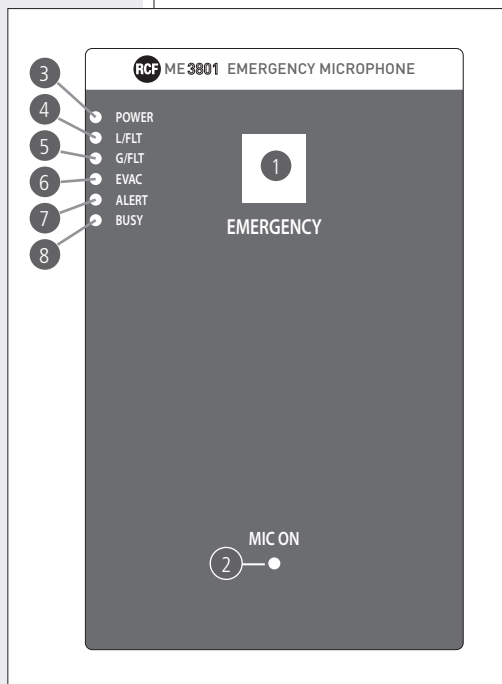
When the system is in normal functioning conditions, ME 3801 can be used for paging announcements:

- remove the microphone from its support;
- push the PTT button;
- start the announcement.

ALERT AND EVAC CONDITIONS

During an ALERT and EVAC event, ME 3801 allows to make live announcement with priority over pre-recorded messages.

- push the EMERGENCY button ①;
- remove the microphone from its support;
- push the PTT button;
- start the announcement.

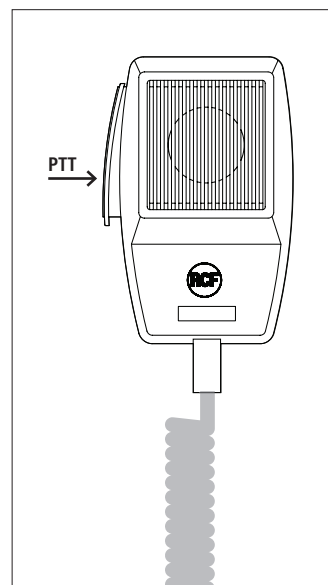


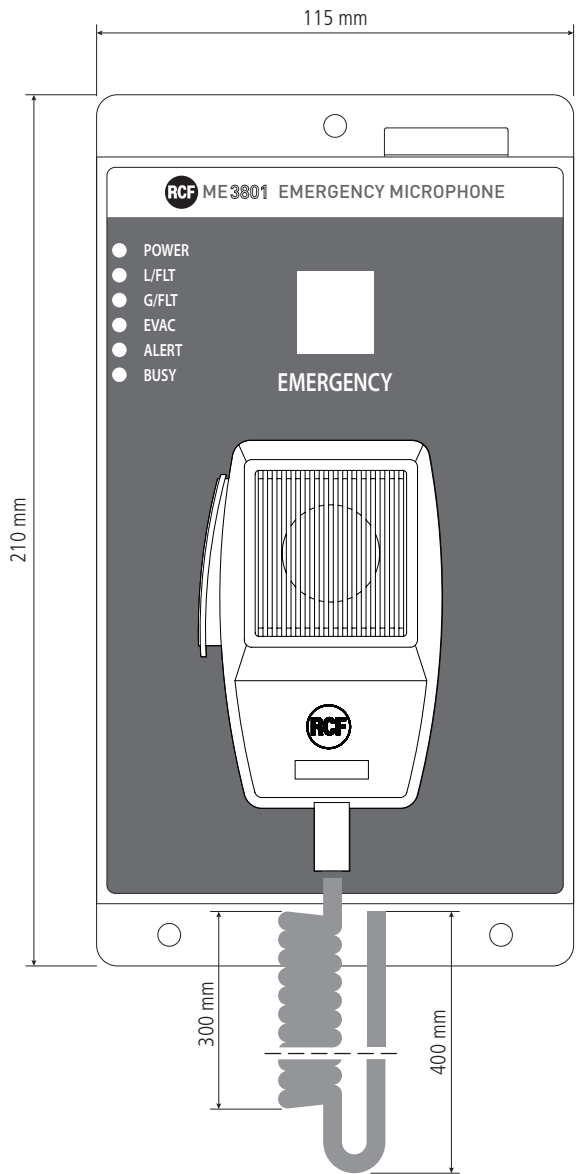
- ① Protected bistable emergency button (with red light).
During an ALERT or EVAC event, press the button for live announcement with priority over pre-recorded messages.

- ② PTT LED (green): when lit, the microphone is turned on.

- ③ ÷ ⑧ LEDs

No.	LABEL	COLOUR	INDICATION (WHEN LIT)
③	POWER	green	Microphone is properly powered and operating.
④	L/FLT	yellow	Detected fault in the paging microphone.
⑤	G/FLT	yellow	One or more faults are detected in the system.
⑥	EVAC	red	Evacuation message playback is in progress.
⑦	ALERT	red	Alert message playback is in progress.
⑧	BUSY	yellow	The line is engaged.







Microphone type:	dynamic
Polar patter:	omnidirectional
Output impedance:	500 Ω \pm 30% (1 kHz)
Microphone sensitivity:	- 70 dB \pm 3 dB (0 dB=1V/ μ bar, 1 kHz)
Frequency response:	300 Hz \div 6 kHz (- 3 dB)
Power supply:	24 V dc (MX 3250 / MX 3500)
Dimensions:	210 x 115 x 35 mm
Net weight:	1.14 kg (2.51 lbs)



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EN 54-16:2008

Voice alarm control and indicating equipment for fire detection and fire alarm systems for buildings

EN 54-4:1997 + A1:2002 + A2:2006

Power supply equipment for fire detection and fire alarm systems for buildings

DXT 3000

Provided options (EN 54-16:2008)

- 7.3 Audible warnings
- 7.6.2 Manual silencing of the voice alarm condition
- 7.7.2 Manual reset of the voice alarm condition
- 7.9 Voice alarm condition output
- 8.3 Indication of faults related to the transmission path to the CIE
- 8.4 Indication of faults related to voice alarm zones
- 10 Voice alarm manual control
- 12 Emergency microphone(s)
- 13.14 Redundant power amplifiers

DoP: 001_18

Other technical data: see DXT 3000 operational manuals.

La Dichiarazione di Prestazione è disponibile sul sito web RCF (www.rcf.it),
nella sezione DOWNLOADS della pagina del prodotto.
The Declaration of Performance is available on the RCF website (www.rcf.it),
in the DOWNLOADS section of the product page.



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