



FIRE



## VOCAL EVACUATION SYSTEMS

### VOCAL EVACUATION SYSTEMS

These systems are an essential component of fire alarm systems. Leading the evacuation with voice instructions helps people inside a building follow evacuation procedures as safely as possible. These systems can be used to play music in normal conditions, always giving priority, in emergency condition, to evacuation and alert messages. They are suitable for places like supermarkets, cinemas, museums, schools, offices, hotels, etc.

The system must be designed and installed in compliance with standard UNI ISO 7240-19, the equipment must comply with standards EN 54-4, 54-16, 54-24.

#### Control units

The control unit is the main unit of the vocal evacuation system for small- and medium-sized applications where a system compliant with standard EN54-16 is required.

It includes a DSP-based master unit and is equipped with a maximum of 6 class D + power amplifiers able to provide up to 250 W in total. It is also possible to configure a reserve amplifier for automatic replacement of the faulty one.

It is equipped with power supply unit compliant with EN54-4 and an internal battery housing.

The system can be expanded by connecting up to 8 control units through an optional dedicated card (ref. 80SC1300123). In addition, it has the inputs, controls and pre-recorded messages suitable to obtain a real 'plug & play' solution.

The system can be managed with monitored microphone bases for announcements (ref. 80MF0100123) and its add-ons (ref. 80PL2400123) with 6 buttons. It is also possible to connect emergency fire service microphone bases (ref. 80MF0300123 and 80MF0200123) and a background music audio player.

Dimensions (L x H x P): 430 x 533 x 190 mm

**Certified EN54 part 4 and part 16**

Item no. 80SC1000123

**EVAC 2-zone control unit**

Item no. 80SC1100123

**EVAC 4-zone control unit**

Item no. 80SC1200123

**EVAC 6-zone control unit**



**Item no.  
80SC1100123**

## VOCAL EVACUATION SYSTEMS

### Microphone stations

Item no. 80MF0100123

#### Table microphone stand for announcements

The table microphone stand for announcements is equipped with electret microphone. It can be directly connected to the EVAC control unit through a fire-resistant J type cable with 8 conductors (4 pairs). It is possible to connect in cascade (in the same line) up to four microphone stands.

In this case, the first microphone stand of the line is directly powered by the control unit, while the other stands need external power supply units 24V@500 mA.

The total length (considering the sum of all cables) must not exceed 800 m.

Dimensions (L x H x P): 128 x 44 x 203 mm (without flexible hose)

Flexible hose length: 276 mm

**EN54 certified, part 16**



Item no.  
80MF0100123

Item no. 80PL2400123

#### Additional table keypad

The additional keypad features six buttons, and works with 80MF0100123 and 80MF0200123 microphone stands. It allows performing selective calls to each zone of the system. Up to eight units can be connected to the same microphone stand. Each button has a fixed address to a specific zone of the system.

Dimensions (L x H x P): 78 x 203 x 39 mm

**EN54 certified, part 16**



Item no.  
80PL2400123

Item no. 80MF0300123

#### Emergency wall microphone

The emergency wall microphone allows performing general calls with priority over all the other inputs (including pre-recorded messages during ALERT and EVAC events). It is equipped with self-diagnostic function and system status reporting, in compliance with standard EN 54-16: 2008. It is possible to connect in cascade up to four microphone stands on the line: the first stand is directly powered by the control unit, while the other stands need external power supply units 24V@500 mA.

The microphone panel is only equipped with the bistable protected emergency button (with red light), used for alert and evacuation announcements with active alarms (general call function only). The microphone status is shown in the LED bar.

Dimensions (L x H x P): 115 x 210 x 36 mm

**EN54 certified, part 16**



Item no.  
80MF0300123

Item no. 80MF0200123

#### Emergency microphone for fire fighters

Emergency wall microphone for fire fighters, whose operation is identical to microphone stand 80MF0100123. Compared to stand 80MF0100123, it has the following differences:

- ✓ the microphone stand is protected inside a metal box (red RAL 3000) with glass and fixed to the wall
- ✓ a dynamic handheld microphone with activation key is present (instead of a microphone capsule on flexible hose).

As it is the fire service station, and therefore must be used for emergency purpose, it must be connected as the first of the line, placed in a room with access restricted to authorised personnel only.

Dimensions (L x H x P): 360 x 360 x 129 mm

**EN54 certified, part 16**



Item no.  
80MF0200123

### VOCAL EVACUATION SYSTEMS

#### Accessories

Item no. 80SC1300123

##### Interlink card

The interface allows connecting up to 8 control units in Master/Slave configuration. It is equipped with fully redundant communication bus for audio and commands. It offers global emergency functions, maintaining local paging and background music.



Item no.  
80SC1300123

Item no. 80SC1400123

##### GPI monitoring card

The interface allows monitoring the logic inputs of the control unit, when this is not connected to a fire alarm control unit. This card is installed inside the control unit and is directly powered by the EVAC control unit.



Item no.  
80SC1400123

Item no. 80SC1500123

##### End-of-line circuit

The end-of-line device allows precise monitoring of a loudspeaker line integrity, and is suitable for the impedance reading system of EVAC products. A device is connected at the end of each speaker line.



Item no.  
80SC1500123

Item no. 80PS9400123

##### Power supply unit 24V@500mA

The power supply unit can be connected to all the microphone stations that require 24 V direct current power supply.



Item no.  
80PS9400123

#### Diffusers and projectors

Item no. 80AT8100123

##### Two-way black bass reflex speaker. Black

Item no. 80AT8200123

##### Two-way white bass reflex speaker. White

The compact design and the different installation options make these 2-way speaker models ideal for alarm systems and background music. Installation is easy and fast thanks to the adjustable installation bracket included. Connections are made with ceramic connectors. The power setting is made through a proper selector on the rear panel. Selectable power (100 V): 30 W – 15W – 7.5 W – 3.75 W.

The cabinet is made with high-density scratch-resistant ABS and includes a steel grille and a protective cover for connectors.

Dimensions (L x H x P): 192 x 242 x 190 mm (excluding bracket)

**EN54 certified, part 24**



Item no.  
80AT8200123

## VOCAL EVACUATION SYSTEMS

### Diffusers and projectors

Item no. 80AT7700123

#### Acoustic speaker for false ceiling Ø 230 mm

Acoustic speaker equipped with flame-retardant steel cover, suitable for recessed installation or in false ceilings or panels. It is particularly suitable for alarm messages thanks to its highly intelligible sound reproduction and is resistant to the high temperatures reached during a fire; a fuse protects the line integrity. Wiring inside the speaker made with flame-retardant conductors. Power can be set with a proper selector.

Selectable power (100V): 6 W – 3 W – 1.5 W.

Dimensions (Ø x D): 230 mm x 127 mm

**EN54 certified, part 24**



**Item no.  
80AT7700123**

Item no. 80AT8400123

#### One-way sound projector 20W

One-way sound projector suitable for all installations where both high intelligibility of alarm messages and high quality in sound reproduction are required. Thanks to its IP65 protection class, it can be installed both indoor and outdoor. The power setting is made through a proper selector. Selectable power (100 V): 20 W – 10 W – 5 W – 2.5 W.

Dimensions (Ø x D): 180 mm x 260 mm (excluding bracket)

**EN54 certified, part 24**



**Item no.  
80AT8400123**

Item no. 80AT7800123

#### Acoustic speaker for false ceiling Ø 181 mm

Speaker equipped with flame-retardant steel cover, suitable for recessed installation or in false ceilings or panels. It is particularly suitable for transmission of alarm messages, in fact its main feature is to provide a particularly intelligible reproduction of the voice and to withstand the high temperatures reached during a fire. The terminal blocks are made of ceramic material for input and output flame-retardant cables. Selectable power at 100V: 6 W – 3 W – 1.5 W – 0.75 W.

Dimensions (Ø x D): 181 mm x 136 mm

**EN54 certified, part 24**



**Item no.  
80AT7800123**

Item no. 80AT7900123

#### Acoustic speaker for false ceiling Ø 175 mm

Acoustic speaker equipped with flame-retardant plastic cover, suitable for recessed installation or in false ceilings or panels. It is particularly suitable for transmission of alarm messages, in fact its main feature is to provide a particularly intelligible reproduction of the voice and to withstand the high temperatures reached during a fire. The terminal blocks are made of ceramic material for input and output flame-retardant cables. Wiring inside the speaker made with flame-retardant conductors.

Selectable power at 100V: 6 W – 3 W – 1.5 W.

Dimensions (Ø x D): 175 mm x 71 mm

**EN54 certified, part 24**



**Item no.  
80AT7900123**



### VOCAL EVACUATION SYSTEMS

#### Diffusers and projectors

Item no. 80AT7600123

##### Acoustic speaker for false ceiling Ø 220 mm

Ceiling-mounted acoustic speaker equipped with flame-retardant steel cover, suitable for recessed installation or in false ceilings or panels. It is particularly suitable for transmission of alarm messages, in fact its main feature is to provide a particularly intelligible reproduction of the voice and to withstand the high temperatures reached during a fire. The terminal blocks are made of ceramic material for input and output flame-retardant cables. Complete with thermal fuse that avoids compromising the integrity of the audio line due to heat involving speaker and ground screw. Wiring inside the speaker made with flame-retardant conductors. Selectable power at 100V: 6 W – 3 W – 1.5 W

Dimensions (Ø x D): 220 mm x 96 mm

**EN54 certified, part 24**



Item no.  
**80AT7600123**

Item no. 80AT8600123

##### One-way sound projector 10W

One-way sound projector with 10 W power. It stands out for its elegant design style and easy adjustment, and is suitable for use in commercial and industrial environments such as supermarkets, swimming pools, warehouses, parking areas, wherever good reproduction quality combined with high intelligibility and efficiency is required. It features a robust cylindrical plastic resin body and an aluminium fixing bracket. It includes a double-cone loudspeaker (protected externally by an aluminium grille) and a transformer for 100 V constant voltage lines, with the possibility of presetting the power during installation. Protection class: IP55. Selectable power at 100V: 10 W – 5 W – 2.5 W.

Dimensions (Ø x D): 137 mm x 215 mm

**EN54 certified, part 24**



Item no.  
**80AT8600123**

Item no. 80AT8500123

##### Two-way sound projector

Two-way sound projector with 20W power. Suitable for all installations where both high intelligibility of alarm messages and high quality in sound reproduction are required. Moreover, thanks to its IP 65 protection class, it can be installed both indoor and outdoor. The modern and attractive design makes it an ideal product for spaces where projectors are also used as architectural elements and contribute to improving the design style.

Selectable power at 100V: 20 W – 10 W – 5 W – 2.5 W

Dimensions (Ø x D): 180 mm x 340 mm (excluding bracket)

**EN54 certified, part 24**



Item no.  
**80AT8500123**

## VOCAL EVACUATION SYSTEMS

### Diffusers and projectors

Item no. 80AT8300123

#### Wall or ceiling rectangular speaker

High intelligibility speaker, designed to transmit alarm messages and background music. It features 5.5" wide-range loudspeaker, ABS cabinet, ceramic terminal block, internal thermal fuse and selectable power at 100V: 6W – 3W – 1.5W.

Dimensions (L x H x D): 267 x 166 x 80 mm

**EN54 certified, part 24**



**Item no.  
80AT8300123**

Item no. 80AT8000123

#### Wall or ceiling square speaker

High intelligibility speaker designed to transmit alarm messages and background music. It features 4.5" wide-range loudspeaker, steel casing, ceramic terminal block, internal thermal fuse and selectable power at 100V: 6W – 3W – 1.5W – 0.75W.

Dimensions (L x H x D): 164 x 164 x 60 mm

**EN54 certified, part 24**



**Item no.  
80AT8000123**

Item no. 80AT8700123

#### Horn ABS speaker

30W horn. Made of UV-resistant ABS material and with IP66 protection class, it is suitable for both indoor and outdoor applications. It can be easily oriented thanks to the adjustable mounting bracket fixed to the wall, and can be used in systems installed in very large spaces, such as supermarkets, railway stations, subways, factories, warehouses, etc., and in all places that require high loudspeaker efficiency. It is equipped with transformer for 100V/70V constant voltage lines, internal power selector and ceramic terminals for cable connection, and also with a thermal fuse to prevent damage to the audio line due to heat. Selectable power at 100V: 30W – 15W – 7.5W – 3.75W.

Dimensions (Ø x D): 212 mm x 279 mm

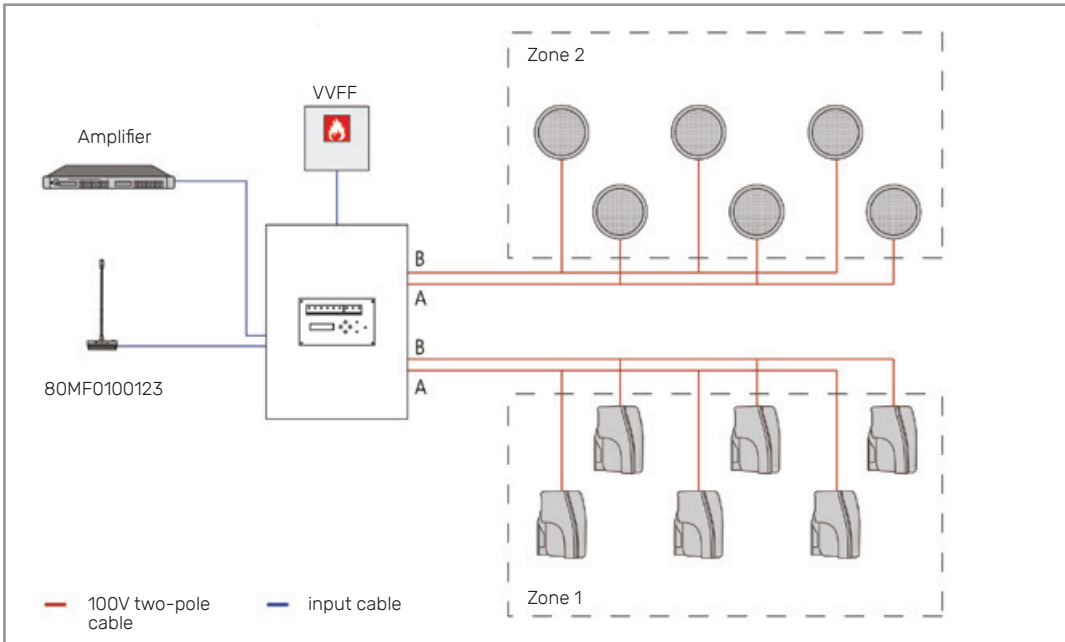
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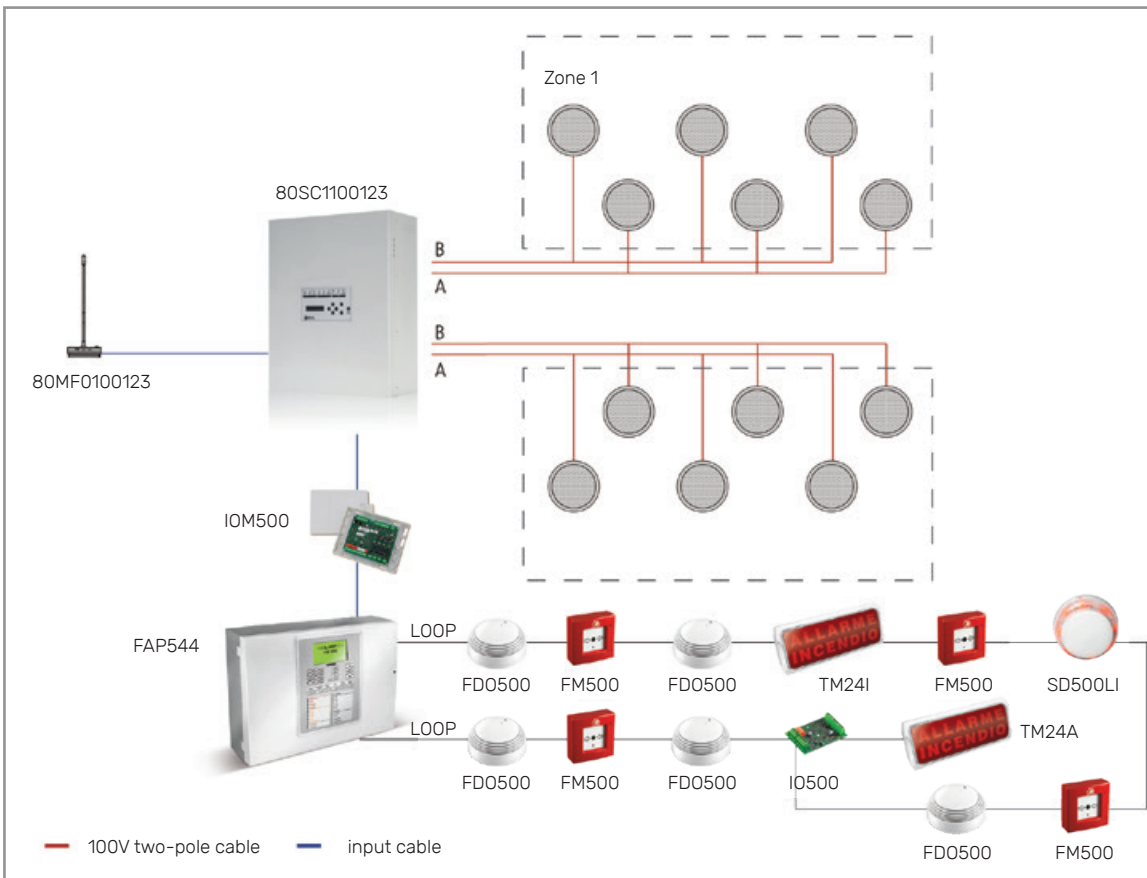
**Item no.  
80AT8700123**



## STANDARD CONFIGURATION



## ADVANCED CONFIGURATION



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