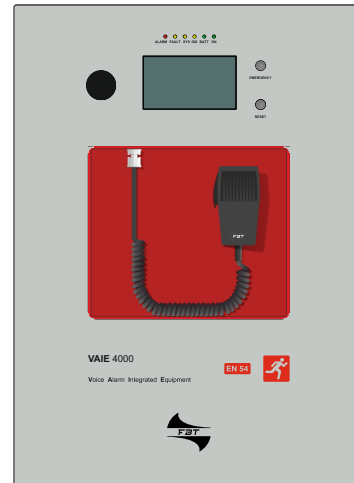


**VAIE 4252****VOICE ALARM INTEGRATED EQUIPMENT****References**

EN 54-24:2008, EN 50849  
EN 54-4: 1997 + A1:2002 + A2:2006  
Cert. N. 0068/CPR/163-2021

Declaration of Performance (DoP) available on the website [www.fbt.it](http://www.fbt.it)

**EN 54 - 16****EN 54 - 4****Description**

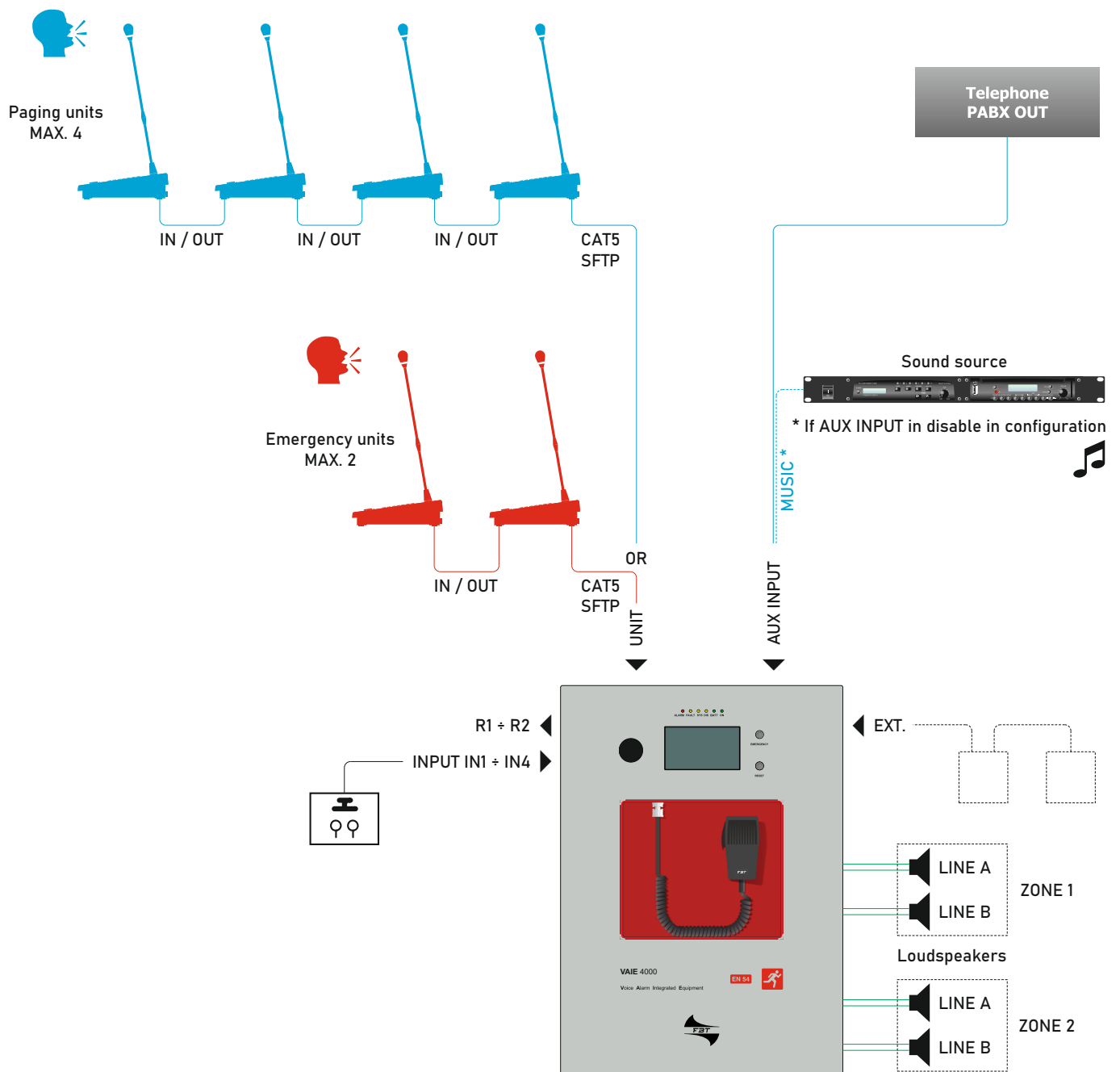
Wall mounted voice alarm integrated equipment - 250 W, 2 zones (A+B).

The VAIE 4000 series has been specifically designed for wall-mounting and equipped with control units, certified in compliance with EN 54-16:2008 / EN 54-4 standards. The VAIE 4252 model is capable of managing 2 alarm zones, with an overall power of 250 W, as well as remote microphone stations and controlled inputs to be connected to a central fire-fighting system.

**Functional features**

- Rated audio output: 250 W
- Backlit 4.3" display with touch screen for selecting the alert and evacuation zones and enabling navigation for adjusting volume levels, configuring the equipment and viewing failures.
- Handheld fireman's paging microphone.
- Sending out of pre-recorded EVACUATION and ALERT messages.
- 4 off controlled input contacts, configurable for playing the evacuation and/or alert messages to the zone, for resetting the messages or for signalling the failure of an external equipment.
- 1 off auxiliary/music input configurable as a music source, a call with precedence activation or a call with automatic activation (VOX).
- 2 off configurable relay outputs.
- Local button for placing the system in an emergency state, equipped with its own led.
- Local button for resetting the fault acoustic signal and stopping playing out of alarm messages.
- EN54-4 certified internal battery charger unit for 24Vdc secondary power supply.
- Possibility to connect up to 4 MBT 1000 series broadcasting microphone units or - as an alternative - up to 2 FMD series remote emergency units.
- An optional extension card can be used for broadcast general calls towards other connected units or as an additional music input.
- Possibility to set a standby amplifier.

## Typical configuration



## Technical data

| MODEL                              | VAIE 4252                                                                  |                                                  |
|------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------|
| Rated audio output @230 Vac        | 250 W                                                                      |                                                  |
| Rated audio output @24 Vdc         | 200 W (THD = 10%)                                                          |                                                  |
| Rated audio output @21,5 Vdc       | 158 W (THD = 10%)                                                          |                                                  |
| Display                            | 4,3", backlit with touch screen, 480 x 272 pixels                          |                                                  |
| No of zones / amplifiers           | 2                                                                          |                                                  |
| Inputs                             |                                                                            |                                                  |
| Emergency microphone               | Dynamic XLR-F w/P.T.T. (Push To Talk) on the front door                    |                                                  |
| Sensitivity / Impedance            | Signal level: 20 mV / 10 kOhm                                              |                                                  |
| Frequency response                 | 110 ÷ 10.000 Hz                                                            |                                                  |
| S/N ratio                          | 61 dB                                                                      |                                                  |
| Paging / Emergency units (UNIT)    | 1 off RJ45 for paging units (PA) or emergency units                        |                                                  |
| Sensitivity / Impedance            | Signal level: max. 850 mV / 8 kOhm                                         |                                                  |
| Frequency response                 | 60 ÷ 20.000 Hz                                                             |                                                  |
| S/N ratio                          | 84 dB                                                                      |                                                  |
| Aux Input (LINE VOX) / Music       | Balanced with terminals (HOT-COM-GND)                                      |                                                  |
|                                    | Programmable in ON / OFF / VOX with A.P.T. models                          |                                                  |
|                                    | Precedence input with contact closing activation                           |                                                  |
| Sensitivity / Impedance            | 160 mV / 40k Ohm                                                           |                                                  |
| Frequency response                 | 40 ÷ 20.000 Hz                                                             |                                                  |
| S/N ratio                          | 73 dB                                                                      |                                                  |
| Outputs                            |                                                                            |                                                  |
| Constant voltage outputs           | 2 zones A/B for 100 V lines - Minimum 40 Ohm                               |                                                  |
| Emergency controls                 | Programmable for normally active or normally inactive state                |                                                  |
| Controlled inputs (IN1 ÷ IN4)      | 4 off inputs with diagnostic                                               |                                                  |
| Outputs R1, R2                     | 2 off relays for signalling, state of emergency and faults                 |                                                  |
|                                    | ( 24 Vdc / 1 A each )                                                      |                                                  |
|                                    | N.O-N.C-Exchange state                                                     |                                                  |
| General information                |                                                                            |                                                  |
| Mains power supply                 | 230 Vac 50/60 Hz +10/-15%                                                  |                                                  |
| Consumption @230 Vac               | 330 W full load / 33 W quiescent                                           |                                                  |
| Secondary power supply             | 24 Vdc (2 x 12 Vdc batteries)                                              |                                                  |
| Consumption @24 Vdc                | 9,8 A full load / 940 mA quiescent / 0,22 A energy saving                  |                                                  |
| Batteries                          | 12 Ah - Ri max. 250 mOhm                                                   | 24 h in standby + 1/2 h full power alarm message |
|                                    | 18 Ah - Ri max. 167 mOhm                                                   | 72 h in standby + 1/2 h full power alarm message |
| Charger / Power supply unit        | 9 A (I max. a) / 11 A (I max. b)                                           |                                                  |
|                                    | 21 V (final voltage - detached battery) / 27,2 V (complete load voltage)   |                                                  |
| Internal fuses                     | V~ 2AT / V~ 10AT                                                           |                                                  |
| Environmental operating conditions | Temperature: +5°C ÷ +40°C / Relative humidity: 25% to 75% (non-condensing) |                                                  |
| Type of mounting                   | Wall mounting                                                              |                                                  |
| Dimensions (W x H x D)             | 360 x 495 x 193 mm                                                         |                                                  |
| Net weight (without batteries)     | 11,5 kg                                                                    |                                                  |

LIST OF OPTIONAL FUNCTIONS

| CLAUSE | DESCRIPTION                                          |
|--------|------------------------------------------------------|
| 7.6.2  | Manual muting of voice alarm condition               |
| 7.7.2  | Manual resetting of voice alarm condition            |
| 7.9    | Output for signalling a voice alarm condition        |
| 8.3    | Indication of fault affecting the transmission paths |
| 8.4    | Indication of fault affecting the alarm zones        |
| 10     | Manual control of voice alarms                       |
| 11     | Interface for external control device(s)             |
| 12     | Emergency microphone(s)                              |

LIST OF THE AUXILIARY FUNCTIONS

| DESCRIPTION      |
|------------------|
| Broadcast calls  |
| Background music |