

VAIE 4102

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



EN 54 - 16

EN 54 - 4

Description

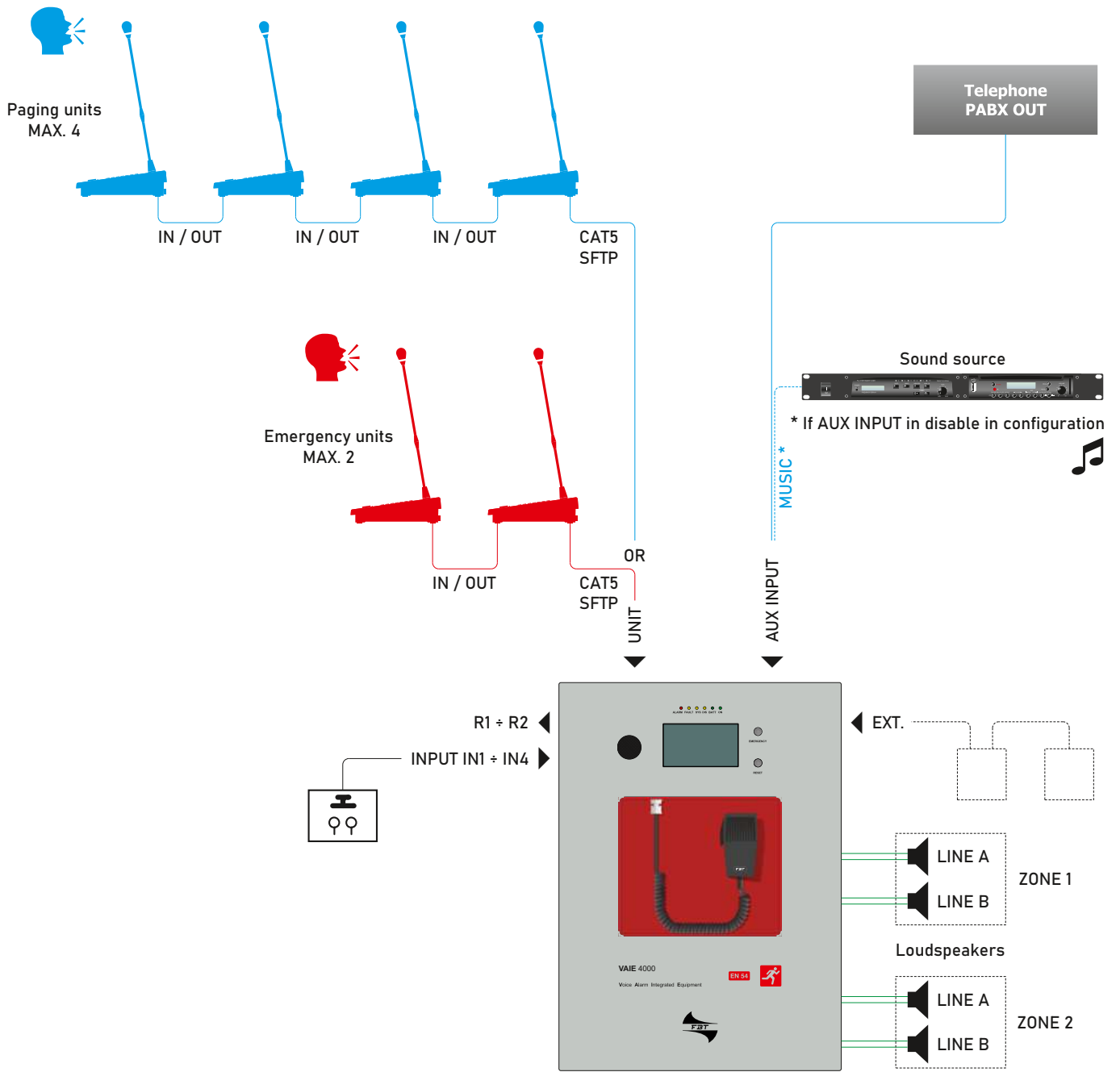
Wall mounted voice alarm integrated equipment - 100 W, 2 zones (A+B).

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 4102 model is capable of managing 2 alarm zones, with an overall power of 100 W, as well as remote microphone stations and controlled inputs to be connected to a central fire-fighting system.

Functional features

- Rated audio output: 100 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 4102	
Rated audio output @230 Vac	100 W	
Rated audio output @24 Vdc	85 W (THD = 10%)	
Rated audio output @21,5 Vdc	68 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 100 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	130 W full load / 22 W quiescent	
Secondary power supply	24 Vdc (2 x 12 Vdc batteries)	
Consumption @24 Vdc	4,2 A full load / 660 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	2.5 A (I max. a) / 5 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