

Section	EN54 Voice Evacuation Systems
Category	PAW Series - All-in-one systems for wall mounting
Code	PAW2102-V
References	Emergency: EN 54-24:2008, EN 50849, EN54-4:1997 + A1:2002 + A2:2006 Cert. No. 0068/CPR/161-2021



Description

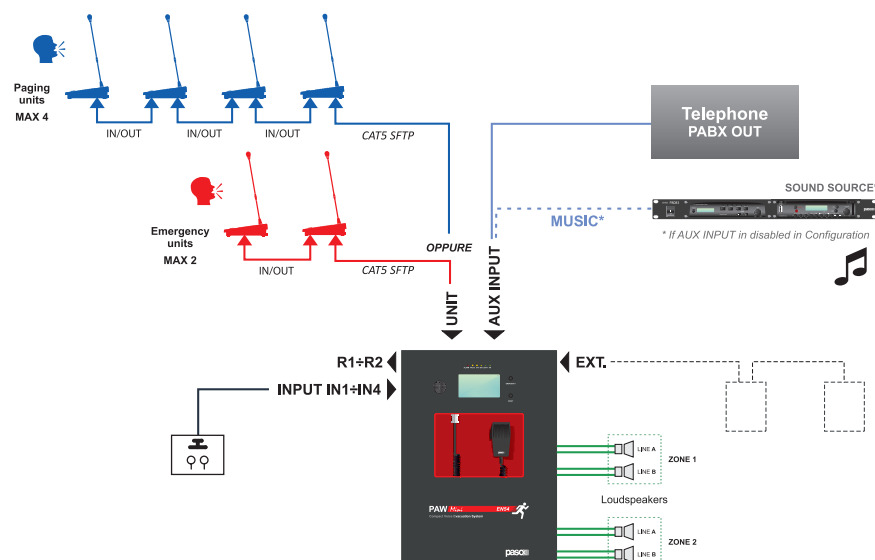
Wall mounted integrated Voice Evacuation System - 100 W, 2 zones (A+B)

The PAW2000-VES series of the new PAW *Mini* range of integrated voice evacuation systems for emergency facilities, 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 PAW2102-V 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 PMB broadcasting microphone units or - as an alternative - up to 2 PMB132 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	PAW2102-V	
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, 480x272 pixels	
No. of zones/amplifiers	2	
Inputs		
Emergency microphone <ul style="list-style-type: none"> • Sensitivity / Impedance • Frequency response • S/N ratio 	Dynamic XLR-F w/P.T.T. (Push To Talk) on the front door Signal level: 20 mV / 10 kΩ 110 ÷ 10.000 Hz 61 dB	
Paging / Emergency units (UNIT) <ul style="list-style-type: none"> • Sensitivity / Impedance • Frequency response • S/N ratio 	1 off Rj45 for paging units (PA) or emergency units (VES) Signal level: max. 850 mV / 8 kΩ 60 ÷ 20.000 Hz 84 dB	
AUX INPUT (LINE VOX) / MUSIC <ul style="list-style-type: none"> • Sensitivity / Impedance • Frequency response • S/N ratio 	Balanced with terminals (HOT-COM-GND) Programmable in ON / OFF / VOX with A.P.T. modes Precedence input with contact closing activation 160 mV / 40 kΩ 40 ÷ 20.000 Hz 73 dB	
Outputs		
Constant voltage outputs	2 zones A/B for 100V lines - Minimum 100 Ω	
Emergency controls <ul style="list-style-type: none"> • Controlled inputs (IN1÷IN4) • Outputs R1, R2 	Programmable for normally active or normally inactive state 4 off inputs with diagnostic 2 off relays for signalling, state of emergency and faults (24 Vdc / 1 A each) <i>N.O-N.C-Exchange state</i>	
General information		
Mains power supply	230 Vac 50/60Hz +10/-15%	
Consumption @230VAC	130 W full load 22 W quiescent	
Secondary power supply	24 VDC (2x 12 Vdc batteries)	
Consumption @24Vdc	4,2 A full load 660 mA quiescent 0,22 A energy saving	
Batteries	12 Ah - Ri max. 250 mΩ	24 h in standby + 1/2 h full power alarm message
	18 Ah - Ri max. 167 mΩ	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)	
Environmental operating conditions	Temperature: +5°C ÷ +40°C Relative humidity: 25% to 75% (non-condensing)	
Internal fuses	V~ 2AT _L / V--- 10AT _L	
Type of mounting	Wall mounting	
Dimensions (W x H x D)	360 x 495 x 193 mm	
Net weight (without batteries)	11,5 kg	

Technical data

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