

## 500 W EVAC SYSTEM FOR WALL MOUNTING

The new **PAW4500-VES** compact systems - equipped with a **EN54-16:2008 / EN54-4 certified control unit** - have been designed for ease of installation and for operating in a vast range of applications.

These systems are able to manage, depending on the model, up to 6 alarm zones via local controls, remote microphone station and controlled inputs.

Three available models:

- **PAW4502-V** 2 zones - double line
- **PAW4504-V** 4 zones - double line
- **PAW4506-V** 6 zones - double line



Certificato n°

0068-CPR-038/2016

## FUNCTIONAL FEATURES

- Audio rated power: 500 W freely distributed between the zones up to a maximum of 250W within a single zone.
- 4.3" touch screen back-lighted display for alert & evacuation zone selection, levels adjustment, settings and failure visualization.
- Fireman's monitored microphone on the front panel.
- Sending of EVACUATION and ALERT pre-recorded messages.
- 7 monitored inputs, each of which is configurable for the playback or either evacuation or alert messages, programmable for each zone, or for the reset of the messages
- 1 auxiliary input for external sound sources.
- 1 VOX input.
- 3 configurable relay outputs.
- Double output A+B per zone.
- Secure front-panel button for operating the emergency system complete with LED indicator
- Front-panel reset button.
- Possibility to source either BGM or paging announcements from an auxiliary input or microphone.
- Possibility to connect up to 16 paging units PMB106-G, PMB112-G.
- Possibility to connect up to 4 remote emergency microphone units PMB132/12-V, PMB132-V or, as an alternative, up to 2 touch screen remote emergency units TSB8500-V.
- Possibility to connect further PAW4500-VES (up to 6 units).
- EN54-4 certified internal battery charger unit for 24Vdc power supply (batteries not included).



**TECHNICAL DATA**

| MODEL                                                                                                                                      | PAW4502-V                                                                                                                                                                                                                | PAW4504-V                                               | PAW4506-V                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Rated audio output @230V <sub>AC</sub><br>*typical distortion at 25 W 0,025%                                                               | 500 W / D=2,5%*                                                                                                                                                                                                          |                                                         |                                                         |
| Rated audio output @24V <sub>DC</sub><br>*typical distortion at 25 W 0,025%                                                                | 400 W / D=10%*                                                                                                                                                                                                           |                                                         |                                                         |
| Display                                                                                                                                    | 4.3" , backlit with touch screen, 480x272 pixels                                                                                                                                                                         |                                                         |                                                         |
| N° of PAW4500-VES/x per system                                                                                                             | Max 6 (ID 0 to 5)                                                                                                                                                                                                        |                                                         |                                                         |
| N° of zones/amplifiers                                                                                                                     | 2                                                                                                                                                                                                                        | 4                                                       | 6                                                       |
| Inputs                                                                                                                                     |                                                                                                                                                                                                                          |                                                         |                                                         |
| <b>Emergency microphone</b><br>• Sensitivity / Impedance<br>• Frequency response<br>• S/N ratio                                            | <b>Balanced XLR-F on the front door</b><br>Signal level: 20 mV / 10 kΩ<br>60 ÷20.000 Hz<br>72 dB                                                                                                                         |                                                         |                                                         |
| <b>Paging units (DESK)</b><br>• Sensitivity / Impedance<br>• Frequency response<br>• S/N ratio                                             | <b>1 off Rj45 for paging units (PA)</b><br>Signal level: max. 1400 mV / 85 kΩ<br>60 ÷20.000 Hz<br>83 dB                                                                                                                  |                                                         |                                                         |
| <b>Emergency units (EMG. DESK)</b><br>• Sensitivity / Impedance<br>• Frequency response<br>• S/N ratio                                     | <b>1 off Rj45 for emergency microphone stations</b><br>Signal level: max. 1400 mV / 85 kΩ<br>60 ÷20.000 Hz<br>83 dB                                                                                                      |                                                         |                                                         |
| <b>AUX (LINE-VOX)</b><br>• Sensitivity / Impedance<br>• Frequency response<br>• S/N ratio                                                  | <b>Balanced with terminals (HOT-COM-GND)</b><br><b>Programmable in ON / OFF / VOX with A.P.T. modes</b><br><b>Precedence input with contact closing activation</b><br>134 mV / 31 kΩ<br>90 ÷ 20.000 Hz<br>81 dB / 85 dBA |                                                         |                                                         |
| <b>MUSIC</b><br>• Sensitivity / Impedance<br>• Frequency response<br>• S/N ratio                                                           | <b>Balanced with terminals (HOT-COM-GND)</b><br>134 mV / 31 kΩ<br>90 ÷ 20.000 Hz<br>81 dB / 85 dBA                                                                                                                       |                                                         |                                                         |
| Outputs                                                                                                                                    |                                                                                                                                                                                                                          |                                                         |                                                         |
| <b>Constant voltage outputs</b><br><b>With double lines (A/B)</b><br><i>One zone output can be configured as a standby for the others.</i> | <b>2 zones</b><br><b>for 100V lines</b><br>Minimum 40 Ω                                                                                                                                                                  | <b>4 zones</b><br><b>for 100V lines</b><br>Minimum 40 Ω | <b>6 zones</b><br><b>for 100V lines</b><br>Minimum 40 Ω |
| <b>LINK</b><br>• Output level / Impedance<br>• Sensitivity / Input impedance                                                               | <b>2 off Rj45 for connection with another PAW4500-VES unit</b><br>1 V / 400 Ω<br>3600 mV / 3 kΩ                                                                                                                          |                                                         |                                                         |
| <b>Emergency controls</b><br>• Controlled inputs <b>CONT. IN</b><br>• Outputs <b>R1, R2, R3</b>                                            | <b>Programmable for <i>normally active</i> or <i>normally inactive</i> state</b><br>7 off inputs with diagnostic<br>3 relays for signalling, state of emergency and faults,<br><i>N.O-N.C-Exchange</i> state             |                                                         |                                                         |

**TECHNICAL DATA**

| MODEL                                                                                         | PAW4502-V                                                                                                      | PAW4504-V                                                                            | PAW4506-V                                                                                                |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>General information</b>                                                                    |                                                                                                                |                                                                                      |                                                                                                          |
| Mains power supply @230VAC<br>Consumption @230VAC                                             | 230 VAC 50/60Hz +10/-15%<br><br>646 W full load<br>(2amps active)<br><br>36 W a vuoto                          | 230 VAC 50/60Hz +10/-15%<br><br>653 W full load<br>(2amps active / 2amp<br>standby)  | 230 VAC 50/60Hz +10/-15%<br><br>660 W full load<br>(2amps active / 4amp<br>standby)<br>Efficiency: 75,6% |
| Secondary power supply<br>@24 VDC (26,3 VDC)<br>Secondary power supply<br>Consumption @24 VDC | 20 A full load<br><br>0,7 A no load / quiescent<br>0,2 A no load / energy<br>saving                            | 20 A full load<br><br>0,95 A no load / quiescent<br>0,2 A no load / energy<br>saving | 20 A full load<br><br>1,2 A no load / quiescent<br>0,2 A no load / energy<br>saving                      |
| <b>Batteries</b>                                                                              | Suggested model: W-MS12/28 (26÷28 Ah)<br>It is possible to use other batteries (18 Ah - 33 Ah - 40 Ah)         |                                                                                      |                                                                                                          |
| <b>Charger / Power supply unit</b>                                                            | 8 A (I max. a)<br>12 A (I max. b)<br>21 V (final voltage – detached battery)<br>27,2 V (complete load voltage) |                                                                                      |                                                                                                          |
| Environmental operating conditions                                                            | Temperature: +5°C ÷ +40°C<br>Relative humidity: 25% to 75% (non-condensing)                                    |                                                                                      |                                                                                                          |
| Type of mounting                                                                              | Wall mounting                                                                                                  |                                                                                      |                                                                                                          |
| Dimensions (L x H x P)                                                                        | 430 x 620 x 240 mm                                                                                             |                                                                                      |                                                                                                          |
| Net weight (without batteries)                                                                | 19,3 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)                              |
| 13.14  | Redundant power amplifiers                           |

**LIST OF THE AUXILIARY FUNCTIONS**

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