

Security and emergency systems EN 54

The new **VAIE 6500 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.

EN 54 - 16
0068-CPR-001/2014



VAIE 6502

Code 40644

VAIE 6504

Code 40948

VAIE 6506

Code 40949

WALL-MOUNTED VOICE EVACUATION SYSTEM

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:

- **VAIE 6502** - 500W/2 zones - double line
- **VAIE 6504** - 500W/4 zones - double line
- **VAIE 6506** - 500W/6 zones - double line

- 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)
- Industry-standard 19" rack-mounting format



	VAIE 6502	VAIE 6504	VAIE 6506
Code	40644	40948	40949
Rated audio output @230VAC *typical distortion at 25 W 0,025%	W 500 W / D=2,5%*	500 W / D=2,5%*	500 W / D=2,5%*
Rated audio output @24VDC *typical distortion at 25 W 0,025%	W 400 W / D=10%*	400 W / D=10%*	400 W / D=10%*
Display	4.3", backlit with touch screen, 480x272 pixels	4.3", backlit with touch screen, 480x272 pixels	4.3", backlit with touch screen, 480x272 pixels
N° of VAIE 6500 x system	Max 6 (ID 0÷5)	MAX 6 (ID 0÷5)	MAX 6 (ID 0÷5)
N° of zones/amplifiers	2	4	6
INPUTS			
Emergency microphone	Balanced XLR-F on the front door	Balanced XLR-F on the front door	Balanced XLR-F on the front door
Sensitivity / Impedance	Signal level: 20 mV / 10 kΩ	Signal level 20 mV / 10 kΩ	Signal level 20 mV / 10 kΩ
Frequency response	Hz 60÷20.000	60÷20.000	60÷20.000
S/N ratio	dB 83	83	83
Paging units (DESK)	1 off Rj45 for paging units (PA)	1 off Rj45 for paging units (PA)	1 off Rj45 for paging units (PA)
Sensitivity / Impedance	Signal level: max. 1400 mV / 85 kΩ	Signal level: max. 1400 mV / 85 kΩ	Signal level: max. 1400 mV / 85 kΩ
Frequency response	Hz 60 ÷20.000	60 ÷20.000	60 ÷20.000
S/N ratio	dB 72	72	72
Emergency units (EMG. DESK)	1 off Rj45 for emergency microphone stations	1 off Rj45 for emergency microphone stations	1 off Rj45 for emergency microphone stations
Sensitivity / Impedance	Signal level: max. 1400 mV / 85 kΩ	Signal level: max. 1400 mV / 85 kΩ	Signal level: max. 1400 mV / 85 kΩ
Frequency response	Hz 60÷20.000	60÷20.000	60÷20.000
S/N ratio	dB 83	83	83
AUX (LINE-VOX)	Balanced with terminals (HOT-COM-GND) Programmable in ON / OFF / VOX with A.P.T. modes Precedence input with contact closing activation	Balanced with terminals (HOT-COM-GND) Programmable in ON / OFF / VOX with A.P.T. modes Precedence input with contact closing activation	Balanced with terminals (HOT-COM-GND) Programmable in ON / OFF / VOX with A.P.T. modes Precedence input with contact closing activation
Sensitivity / Impedance	134 mV / 31 kΩ	134 mV / 31 kΩ	134 mV / 31 kΩ
Frequency response	Hz 90÷20.000	90÷20.000	90÷20.000
S/N ratio	dB 81 dB / 85 dBA	81 dB / 85 dBA	81 dB / 85 dBA
Music	Balanced with terminals (HOT-COM-GND)	Balanced with terminals (HOT-COM-GND)	Balanced with terminals (HOT-COM-GND)
Sensitivity / Impedance	134 mV / 31 kΩ	134 mV / 31 kΩ	134 mV / 31 kΩ
Frequency response	Hz 90÷20.000	90÷20.000	90÷20.000
S/N ratio	dB 81 dB / 85 dBA	81 dB / 85 dBA	81 dB / 85 dBA
OUTPUTS			
Constant voltage outputs With double lines (A/B) One zone output can be configured as a standby for the others.	2 zones for 100V lines Minimum 40 Ω	4 zones for 100V lines Minimum 40 Ω	6 zones for 100V lines Minimum 40 Ω
Link	2 off Rj45 for connection with another VAIE 6500-VES unit	2 off Rj45 for connection with another VAIE 6500-VES unit	2 off Rj45 for connection with another VAIE 6500-VES unit
Output level / Impedance	1 V / 400 Ω	1 V / 400 Ω	1 V / 400 Ω
Sensitivity / Input impedance	3600 mV / 3 kΩ	3600 MV / 3 KΩ	3600 MV / 3 KΩ
Emergency controls	Programmable for normally active or normally inactive state	Programmable for normally active or normally inactive state	Programmable for normally active or normally inactive state
Controlled inputs CONT. IN	7 off inputs with diagnostic	7 off inputs with diagnostic	7 off inputs with diagnostic
Outputs R1, R2, R3	3 relays for signalling, state of emergency and faults, N.O-N.C-Exchange state	3 relays for signalling, state of emergency and faults, N.O-N.C-Exchange state	3 relays for signalling, state of emergency and faults, N.O-N.C-Exchange state
General information			
Mains power supply @230VAC Consumption @230VAC	230Vca 50/60Hz +10/-15% 646 W full load (2amps active) 36 W a vuoto	230Vca 50/60Hz +10/-15% 653 W full load (2amps active / 2amp standby)	230Vca 50/60Hz +10/-15% 660 W full load (2amps active / 4amp standby) Efficiency: 75,6%
Secondary power supply @24 VDC (26,3 VDC)	20 A full load	20 A full load	20 A full load
Secondary power supply Consumption @24 VDC	0,7 A no load/ quiescent 0,2 A no load / energy saving	0,95 A no load / quiescent 0,2 A no load / energy saving	0,2 A no load / quiescent 0,2 A no load / energy saving
Batteries	Suggested model: W-MS12/28 (26÷28 Ah). It is possible to use other batteries (18 Ah - 33 Ah - 40 Ah)		
Environmental operating conditions	Temperature: +5°C ÷ +40°C Relative humidity: 25% to 75% (non-condensing)		
Type of mounting	Wall mounting		
Dimensions (WxHxD)	mm 430x 620x240	430x 620x240	430x 620x240
Weight	Kg 19,3	19,3	19,3