

EN 54 - 16

## VAIE 6502 / 6504 / 6506

### WALL-MOUNTED VOICE EVACUATION SYSTEM

#### Description

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.

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** - 2 zones - double line

**VAIE 6504** - 4 zones - double line

**VAIE 6506** - 6 zones - double line

#### Functional features

- Audio rated power: 500W 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 MBT 1106, MBT 1112.
- Possibility to connect up to 4 remote emergency microphone units FMD 2012, FMD 2001 or as an alternative, up 2 touch screen remote emergency units TSC 6000EN.
- Possibility to connect further VAIE 6000 (up to 6 units).
- Industry-standard 19" rack-mounting format.



#### List of optional functions

#### List of the auxiliary functions

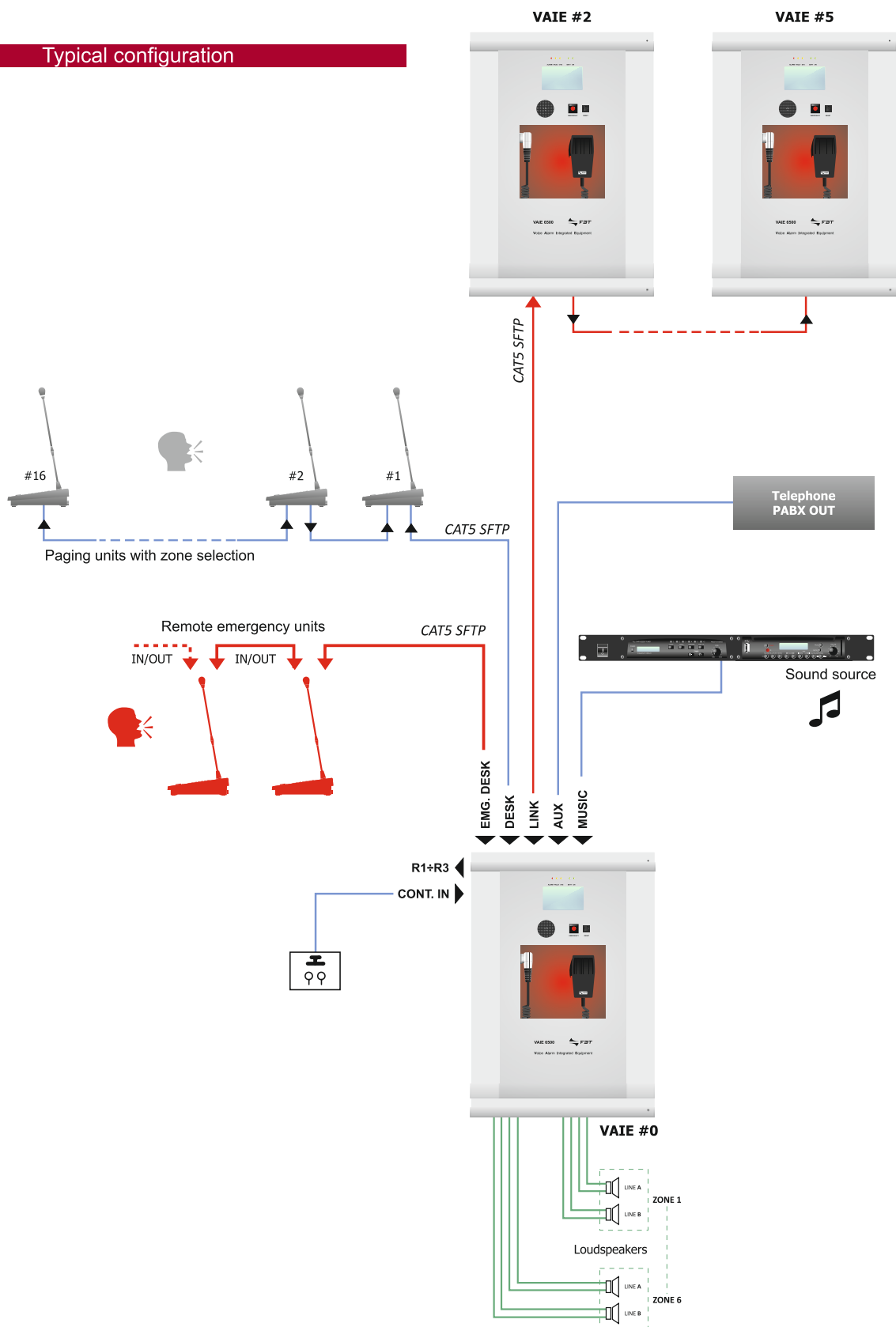
CLAUSE	DESCRIPTION
7.6.2	Manual muting of voice alarm condition
7.7.2	Manual resetting of voice alarm condition
7.9	Output for signalling a voice alarm condition
8.3	Indication of fault affecting the transmission paths
8.4	Indication of fault affecting the alarm zones
10	Manual control of voice alarms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

DESCRIPTION
Broadcast calls
Background music

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#### Typical configuration





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MODEL	VAIE 6502		VAIE 6504	VAIE 6506
Rated audio output @230Vac *typical distortion at 25 W 0,025%	500W / D=2,5%*			
Rated audio output @24Vdc *typical distortion at 25 W 0,025%	400W / D=10%*			
Display	4,3", backlit with touch screen, 480 x 272 pixels			
No of VAIE 6500 x system	Max. 6 (ID 0 to 5)			
No of zones / amplifiers	2	4	6	
Inputs				
<b>Emergency microphone</b> - Sensitivity / Impedance - Frequency response - S/N ratio	<b>Balanced XLR-F on the front door</b> Signal level: 20mV / 10kOhm 60 ÷ 20.000Hz 72dB			
<b>Paging units (DESK)</b> - Sensitivity / Impedance - Frequency response - S/N ratio	<b>1 off RJ45 for paging units (PA)</b> Signal level: max. 1400mV / 85kOhm 60 ÷ 20.000Hz 83dB			
<b>Emergency units (EMG.DESK)</b> - Sensitivity / Impedance - Frequency response - S/N ratio	<b>1 off RJ45 for emergency microphone stations</b> Signal level: max. 1400mV / 85kOhm 60 ÷ 20.000Hz 83dB			
<b>AUX (LINE-VOX)</b> - Sensitivity / Impedance - Frequency response - S/N ratio	<b>Balanced with terminals (HOT-COM-GND)</b> <b>Programmable in ON/OFF/VOX with A.P.T. modes</b> <b>Precedence input with contact closing activation</b> 134mV / 31kOhm 90 ÷ 20.000Hz 81dB / 85 dBA			
<b>MUSIC</b> - Sensitivity / Impedance - Frequency response - S/N ratio	<b>Balanced with terminals (HOT-COM-GND)</b> 134mV / 31kOhm 90 ÷ 20.000Hz 81dB / 85dBA			
Outputs				
<b>Constant voltage outputs with double lines (A/B)</b> One zone output can be configured as a standby for the others	<b>2 zones for 100V line</b> Minimum 40 Ohm	<b>4 zones for 100V line</b> Minimum 40 Ohm	<b>6 zones for 100V line</b> Minimum 40 Ohm	
<b>LINK</b> - Output level / Impedance - Sensitivity / Input impedance	<b>2 off RJJ45 for connection with another VAIE 6500 unit</b> 1V / 400 Ohm 3600mV / 3kOhm			
<b>Emergency controls</b> - Controlled inputs CONT. IN - Outputs R1, R2, R3	<b>Programmable for normally active or normally inactive state</b> 7 Off inputs with diagnostic 3 relays for signalling, state of emergency and fault, N.O-N.C-Exchange state			



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<b>General information</b>			
Mains power supply @230Vac Consumption @230Vac	230Vac 50/60Hz +10 / -15% 646W full load (2 amps active) 36W a vuoto	230Vac 50/60Hz +10 / -15% 653W full load (2 amps active) 2 amp standby)	230Vac 50/60Hz +10 / -15% 660W full load (2 amps active) 4 amp standby) Efficiency 75,6%
Secondary power supply @24Vdc (26,3Vdc)  Secondary power supply Consumption @24Vdc	20A full load 0,7A no load / quiescent  0,2A no load / energy saving	20A full load 0,95A no load / quiescent  0,2A no load / energy saving	20A full load 1,2A no load / quiescent  0,2A no load / energy saving
Batteries	Suggested model: W-MS 12/28 (26+28Ah) It is possible to use other batteries ( 18Ah - 33Ah - 40Ah )		
Charger / Power supply unit	8A (Pmax. a) 12A (Pmax. b) 21V (final voltage - detached battery) 27,2V (complete load voltage)		
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	430 x 620 x 240mm		
Net weight (without batteries)	19,3kg		