

Compact Voice Alarm System

MAIN FEATURES

- Rated audio output: 500W overall, distributable freely among the zones with a maximum limit of 250W per single zone.
- 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 microphone (included).
- Sending out of pre-recorded EVACUATION and ALERT messages.
- Listening to pre-recorded messages through local loudspeaker.
- 7 off controlled input contacts, configurable for playing the evacuation and/or alert and/or broadcast messages to the programmed zones or for resetting the messages.
- 1 off music input for sound sources.
- 1 off auxiliary input configurable as a music source, a call with precedence activation or a call with automatic activation (VOX).
- 3 off configurable relay outputs.
- Double A+B output for each zone.
- Events log (report of all faults and/or alarms occurred in the system).
- Double link line to connect further VAIE 7500 (up to 6 units).
- Multilingual managing software (up to 8 languages, ASCII characters).
- Protected 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.
- Possibility to play MP3 files through SD card and/or external USB device.
- Independent selection on each zone of the various sound sources (MUSIC IN, AUX IN or SD/USB IN).
- Possibility to recall through the input contacts up to 8 pre-recorded messages (2 emergency messages - 1 alert, 1 evacuation - and the other 6 classifiable as emergency / evacuation / broadcast).
- Possibility to set as local the broadcasting microphone station.
- Up to 16 broadcasting microphone stations can be connected (MBT 1106 and/or MBT 1112).
- Up to 4 FMD 2001 and/or FMD 2012 remote emergency units can be connected (or, as an alternative, 2 touchscreen units TSC 6000-EN).
- EN 54-4 certified internal battery charger unit for 24Vdc secondary power supply (batteries not supplied).
- Mounting on 19" rack (optional with P5800D accessory kit)
- Optional internal expansion card for two additional music inputs.
- Optional internal expansion card with DSP for six additional music inputs.

**EN 54-16:2008****EN 54-4:1997**

EN 54-16:2008
EN 54-4:1997 + A1:2002 + A2:2006
Cert. Nr. 0068-CPR-013/2019

Declaration of Performance (DoP) available on the website: www.fbt.it

DESCRIPTION

The new VAIE 7500 compact systems, equipped with a EN54-16:2008 / EN54-4 certified control units, are all specifically designed for ease of installation and for operating in a vast range of applications. These systems are able to manage, depending on the model, from 2 up to 6 alarm zones via local controls, remote microphone station and controlled inputs.

Three available models:

VAIE 7502 | 2 zones / 500W / double output line (A+B)

VAIE 7504 | 4 zones / 500W / double output line (A+B)

VAIE 7506 | 6 zones / 500W / double output line (A+B)

TECHNICAL SPECIFICATIONS

GENERAL	VAIE 7502	VAIE 7504	VAIE 7506
Rated audio output @230Vac * typical distortion at 25W 0,025%	500W / D=2,5%*	500W / D=2,5%*	500W / D=2,5%*
Rated audio output @24Vdc * typical distortion at 25W 0,025%	400W / D=10%*	400W / D=10%*	400W / D=10%*
Display	4.3" / backlit with touch screen 480 x 272 pixel	4.3" / backlit with touch screen 480 x 272 pixel	4.3" / backlit with touch screen 480 x 272 pixel
N. of VAIE 7500 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 20mV / 10kOhm	Signal level 20mV / 10kOhm	Signal level 20mV / 10kOhm
• Frequency response	60 - 20kHz	60 - 20kHz	60 - 20kHz
• S/N ratio	72dB	72dB	72dB
Paging units (BROAD.)	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 1400mV / 85kOhm	Signal level max 1400mV / 85kOhm	Signal level max 1400mV / 85kOhm
• Frequency response	60 - 20kHz	60 - 20kHz	60 - 20kHz
• S/N ratio	83dB	83dB	83dB
Emergency units (EMG.)	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 1400mV / 85kOhm	Signal level max 1400mV / 85kOhm	Signal level max 1400mV / 85kOhm
• Frequency response	60 - 20kHz	60 - 20kHz	60 - 20kHz
• S/N ratio	83dB	83dB	83dB
AUX (LINE-VOX)	Balanced with terminals (HOT- COM - GND) Programmable in ON/OFF/ VOX with A.P.T. Precedence input with contact closing act	Balanced with terminals (HOT- COM - GND) Programmable in ON/OFF/ VOX with A.P.T. Precedence input with contact closing act	Balanced with terminals (HOT- COM - GND) Programmable in ON/OFF/ VOX with A.P.T. Precedence input with contact closing act
• Sensitivity / Impedance	134mV / 31kOhm	134mV / 31kOhm	134mV / 31kOhm
• Frequency response	90 - 20kHz	90 - 20kHz	90 - 20kHz
• S/N ratio	81dB / 85dBA	81dB / 85dBA	81dB / 85dBA
MUSIC / EXT	Balanced with terminals (HOT-COM-GND)	Balanced with terminals (HOT-COM-GND)	Balanced with terminals (HOT-COM-GND)
• Sensitivity / Impedance	134mV / 31kOhm	134mV / 31kOhm	134mV / 31kOhm
• Frequency response	90 - 20kHz	90 - 20kHz	90 - 20kHz
• S/N ratio	81dB / 85dBA	81dB / 85dBA	81dB / 85dBA

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 400Ohm	4 zones for 100V lines Minimum 400Ohm	6 zones for 100V lines Minimum 400Ohm
REMOTE LINK A/B	4 off RJ45 for connection with another VAIE 7500-VES unit	4 off RJ45 for connection with another VAIE 7500-VES unit	4 off RJ45 for connection with another VAIE 7500-VES unit
• Output level / Impedance	1V / 400Ohm	1V / 400Ohm	1V / 400Ohm
• Sensitivity / Input impedance	3600mV / 3kOhm	3600mV / 3kOhm	3600mV / 3kOhm
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 CONTACT	7 off inputs with diagnostic	7 off inputs with diagnostic	7 off inputs with diagnostic
• Outputs R1, R2, R3	3 relays for signaling, state of emergency and faults N.O.-N.C. - exchange state	3 relays for signaling, state of emergency and faults N.O.-N.C. - exchange state	3 relays for signaling, state of emergency and faults N.O.-N.C. - exchange state

POWER SUPPLY	VAIE 7502	VAIE 7504	VAIE 7506
Mains power supply @230Vac Consumption @230Vac	230Vac 50/60Hz +10% / -15% 646W full load (2 amps active) 36W empty	230Vac 50/60Hz +10% / -15% 653W full load (2 amps active / 2 amps standby)	230Vac 50/60Hz +10% / -15% 660W full load (2 amps active / 4 amps standby)
Secondary power supply @24Vdc (26,3 Vdc) Secondary power supply Consumption @24Vdc	20A full load 0,92A no load / quiescent 0,3A no load / energy saving	20A full load 1,22A no load / quiescent 0,3A no load / energy saving	20A full load 1,5A no load / quiescent 0,3A no load / energy saving
Batteries	Not included. It is possible to use 18Ah - 33Ah - 40Ah batteries	Not included. It is possible to use 18Ah - 33Ah - 40Ah batteries	Not included. It is possible to use 18Ah - 33Ah - 40Ah batteries

MECHANICAL SPECIFICATIONS

Code	41812	41813	41814
Environmental operating conditions	Temperature: +5°C - +40°C / Relative humidity: 25% to 75% (non-condensing)	Temperature: +5°C - +40°C / Relative humidity: 25% to 75% (non-condensing)	Temperature: +5°C - +40°C / Relative humidity: 25% to 75% (non-condensing)
Type of mounting	Wall mounting	Wall mounting	Wall mounting
Net dimensions (WxHxD)	430 x 620 x 240mm 16.92 x 24.4 x 9.44inch	430 x 620 x 240mm 16.92 x 24.4 x 9.44inch	430 x 620 x 240mm 16.92 x 24.4 x 9.44inch
Net weight	21.60 kg 41.61 lb	22.70 kg 50.04 lb	23.60 kg 52.02 lb

TO COMPLETE THE SYSTEM...

TSC 6000EN

Touch screen microphone station for emergency calls



FMD 2001 or 2012

Emergency paging units
(1 zona or 12 zones)



MBT 1106

Pre-amplified broadcasting
paging units (6 zones)



MBT 1112

Pre-amplified broadcasting
paging units (12 zones)



TYPICAL CONFIGURATION

