

Compact Voice Alarm System

MAIN FEATURES

- Rated audio output: 1000 W overall, distributable freely among the zones with a maximum limit of 250 W 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 paging microphone.
- Sending out of pre-recorded EVACUATION and ALERT messages.
- Sending out of pre-recorded BROADCAST messages (i.e. spots, announcements, sound bells).
- Playing back of pre-recorded messages via monitor loudspeaker.
- 7 off controlled input contacts, configurable for playing the evacuation and/or alert 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.
- Event log (list of failures and/or alarms that have occurred in the system).
- Double LINK line for connecting other VAIE 7M00 (up to a total of 6 units).
- Multilanguages management.
- Protected local button for placing the system in an emergency state, equipped with its own LED.
- Local reset button.
- 3-band equalisation for each zone output.
- 3-band equalisation for each music input.
- Built-in SD/USB input for background music MP3 player.
- Independent selection on each zone of the various audio sources (MUSIC IN, AUX IN, MP3 player and EXT).
- Up to 8 pre-recorded messages can be retrieved from outside through input contacts (of which 2 fixed emergency messages - plus 6 that can be classed as emergency / evacuation / broadcast messages).
- Possibility of setting up to 16 timers for the programmed playing out of the broadcast messages with the possible activation of signalling relays.
- Up to 16 MBT 1106 and/or MBT 1112 broadcasting microphone stations can be connected.
- Up to 4 FMD 2001 and/or FMD 2012 remote emergency units can be connected (or, as an alternative, up to 2 touch screen units TSC 6000-EN).
- EN54-4 certified battery charge unit for 24VDC secondary power supply (batteries not included).
- Mounting on 19" rack.

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

EN 54-16:2008
EN 54-4:1997 + A1:2002 + A2:2006
Cert. Nr. 0068-CPR-069/2019

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

DESCRIPTION

The new VAIE 7M00 range includes two integrated voice evacuation systems for emergency facilities, designed specifically for wall-mounting and equipped with control units, certified in compliance with EN54-16:2008 / EN54-4 standards. Depending on the model, these systems are capable of managing from 4 to 6 alarm zones, each driven by a single amplifier, as well as remote microphone stations and controlled inputs to be connected to a central fire-fighting system. It is possible to connect up to a maximum of 6 of these systems to one other (for managing an overall maximum of 36 zones).

The range includes:

VAIE 7M04 | 1000W / 4 zone / double output line (A+B)

VAIE 7M06 | 1000W / 6 zone / double output line (A+B)

TECHNICAL SPECIFICATIONS

GENERAL	VAIE 7M04	VAIE 7M06
Rated audio output @230Vac *typical distortion at 25 W 0,025%	1000W / D=2,5%*	1000W / D=2,5%*
Rated audio output @24Vdc *typical distortion at 25 W 0,025%	800W / D=10%*	800W / D=10%*
Display	4,3", backlit with touch screen, 480 x 272 pixel	4,3", backlit with touch screen, 480 x 272 pixel
N. of VAIE 6500 x system	Max. 6 (ID 0 ÷ 5)	Max. 6 (ID 0 ÷ 5)
N. of zones / amplifiers	4	6

INPUTS

Emergency microphone	Balanced XLR-F on the front door	Balanced XLR-F on the front door
• Sensitivity / Impedance	Signal level: 20mV / 10kOhm	Signal level: 20mV / 10kOhm
• Frequency response	60 ÷ 20kHz	60 ÷ 20kHz
• S/N ratio	72dB	72dB
Paging units (BROAD.)	n° 1 off RJ45 paging units (PA)	n° 1 off RJ45 paging units (PA)
• Sensitivity / Impedance	Max. signal level 1400mV / 85kOhm	Max. signal level 1400mV / 85kOhm
• Frequency response	60 ÷ 20kHz	60 ÷ 20kHz
• S/N ratio	83dB	83dB
Emergency units (EMG.)	n° 1 off RJ45 for emergency microphone units	n° 1 off RJ45 for emergency microphone units
• Sensitivity / Impedance	Max. signal level 1400mV / 85kOhm	Max. signal level 1400mV / 85kOhm
• Frequency response	60 ÷ 20.000Hz	60 ÷ 20.000Hz
• S/N ratio	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 activation	Balanced with terminals (HOT-COM-GND) Programmable in ON/OFF/VOX with A.P.T. Precedence input with contact closing activation
• Sensitivity / Impedance	134mV / 31kOhm	134mV / 31kOhm
• Frequency response	90 ÷ 20kHz	90 ÷ 20kHz
• S/N ratio	81dB / 85 dBA	81dB / 85 dBA
MUSIC / EXT	Balanced with terminals (HOT-COM-GND)	Balanced with terminals (HOT-COM-GND)
• Sensitivity / Impedance	134mV / 31kOhm	134mV / 31kOhm
• Frequency response	90 ÷ 20kHz	90 ÷ 20kHz
• S/N ratio	81dB / 85dBA	81dB / 85dBA

EQUALISATION

Independent equalisation for each output zone	3 band equaliser, Bass tones (100Hz): ± 10dB	3 band equaliser, Bass tones (100Hz): ± 10dB
Independent equalisation for each music input	Mid-range (1kHz): ± 10dB, Treble tones (10kHz): ± 10dB	Mid-range (1kHz): ± 10dB, Treble tones (10kHz): ± 10dB

OUTPUTS

Constant voltage outputs with double lines (A/B) One zone output can be configured as a standby for the others	4 zones for 100V lines Minimum 40Ohm	6 zones for 100V lines Minimum 40Ohm
REMOTE LINK A/B	n° 2+2 RJ45 for connection with another VAIE 6500 unit	n° 2+2 RJ45 for connection with another VAIE 6500 unit
• Output level / Impedance	1V / 400 Ohm	1V / 400 Ohm
• Sensitivity / Input impedance	3600mV / 3kOhm	3600mV / 3kOhm
Emergency controls	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
• Outputs R1, R2, R3	3 relays for signalling, state of emergency and fault N.O-N.C-Exchange state	3 relays for signalling, state of emergency and fault N.O-N.C-Exchange state

POWER SUPPLY	VAIE 7M04	VAIE 7M06
Mains power supply @230Vac	100~264Vac 47/63Hz +10 / -15% 1280W full load (4 amp active) 100W no load	100~264Vac 47/63Hz +10 / -15% 1280W full load (4 amp active / 2 amp stand-by) 100W no load
Secondary power supply @24Vdc (26,3Vcc) Secondary power supply, consumption @24Vcc	40A full load 2A no load / quiescent 0,3A no load / energy saving	40A full load 2A no load / quiescent 0,3A no load / energy saving
Batteries	Only use 40 Ah batteries	Only use 40 Ah batteries
Charger / Power supply unit	16A (I max. a) 20A (I max. b) 21V (final voltage - detached battery) 27,2V (complete load voltage)	16A (I max. a) 20A (I max. b) 21V (final voltage - detached battery) 27,2V (complete load voltage)

MECHANICAL SPECIFICATIONS

Code	42589	42610
Environmental operating conditions	Temperature +5°C ÷ +40°C Relative humidity 25% ÷ 75% (non-condensing)	Temperature +5°C ÷ +40°C Relative humidity 25% ÷ 75% (non-condensing)
Type of mounting	Wall / To 19" rack with optional accessory	Wall / To 19" rack with optional accessory
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
Net weight (without batteries)	25.30 kg 55.77 lb	25.70 kg 56.65 lb

LIST OF OPTIONAL FUCTIONS

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 amplifier

LIST OF AUXILIARY FUCTIONS

DESCRIPTION
Broadcast calls
Broadcast calls

TYPICAL CONFIGURATION

