

Voice Alarm Controller

EN 54-16

MAIN FEATURES

- Controlled emergency microphone
- 2-channel broadcast system
- Built-in message generator to broadcast pre-recorded messages (EVAC and ALERT)
- USB input for background music source
- Backup power amplifier management
- Secondary emergency power supply input (24Vdc)
- 7 controlled input contacts
- 3 relay outputs
- 6 control lines for DPU digital amplifiers and/or router VAR 2006 and/or integrated voice evacuation system
- 4 redundant lines to connect other VAC 2006 in daisy chain (max. 6)
- 2 redundant lines for emergency microphone consoles, MBT range (max. 7)
- 2 lines for call stations MBT range (max. 16 with 7 priority levels)
- Graphic display 128 x 64 pixel monochrome, for display multiple windows management
- Complete diagnostic of system fault events
- Standard rack mounting 19" (2 units)



DESCRIPTION

This new range of products has been designed and engineered to offer the most innovative solutions in the realization of alarm systems, in order to manage emergency situations and to permit guided evacuation, according to current regulations (EN 54-16, ISO 7240-19, EN 60849). The complete architecture of the VAIE2250 system is based on the controller VAC2006, the management and diagnostic unit. It is highly recommended for both big and small installations, where high performance of security, flexibility, and easiness are required. CAT-5e SF/UTP network ensures easy connection of the several units, controllers, routers, digital amplifiers, and emergency and/or paging call stations. This solution performs efficient and economical installation, allowing the usage of both local and centralized equipment.

TECHNICAL SPECIFICATIONS

POWER SUPPLY		VAC 2006
Mains power supply @230Vac	Consumption @230Vac	230Vac 50/60Hz ± 10% 10W
External power supply @24Vdc	Consumption @24Vdc	24Vcc (Min 22Vcc ÷ Max 28Vcc) 0.3A
MECHANICAL SPECIFICATIONS		
Code	37712	
Environmental operating conditions	Temperature: +5°C - +40°C Relative humidity: 25% to 75% (non-condensing)	
Type of mounting	Direct to rack 19" (2U)	
Net dimensions (WxHxD)	482 x 88 x 220mm 18.97 x 3.46 x 8.66inch	
Transport dimensions (WxHxD)	525 x 150 x 330mm 20.67 x 5.91 x 12.99inch	
Net weight	5.40 kg 11.90 lb	
Transport weight	6.70 kg 14.77 lb	

TECHNICAL SPECIFICATIONS

GENERAL

VAC 2006

Display	3", backlit, 128 x 64 dots
---------	----------------------------

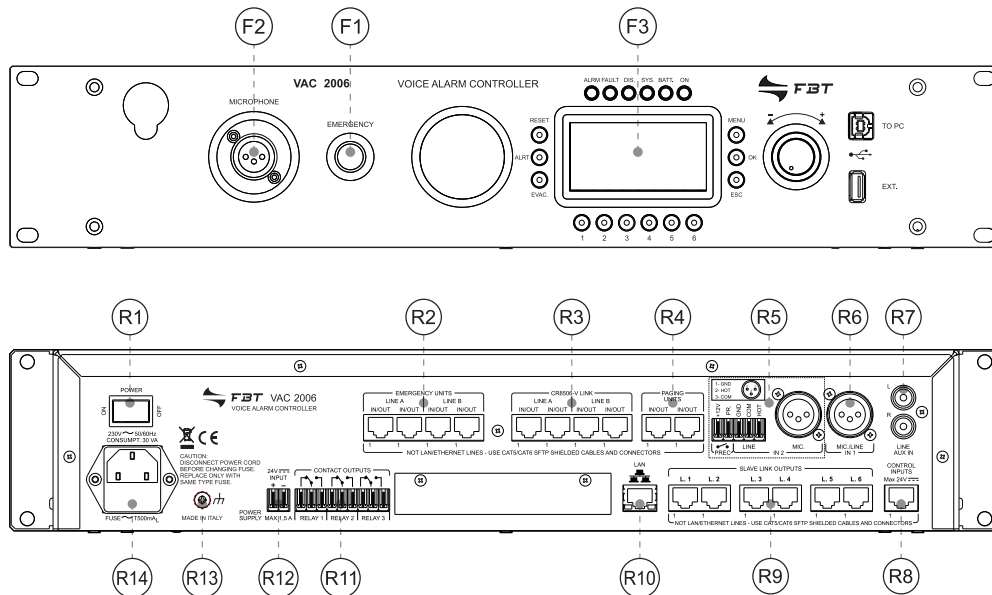
INPUTS

USB - EXT	Powered USB input on the front panel - Type A socket
Emergency microphone	Balanced XLR-F on the front panel
• Sensitivity / Impedance	Signal level 20mV / 10kW
• Frequency response	60 ÷ 20kHz
• S/N ratio	72dB
IN. 1	Programmable for the following modes: ON / OFF / Precedence / VOX with A.P.T
Socket (MIC)	Balanced XLR-F (with possibility of activating 24V phantom power supply)
• Sensitivity / Impedance	Signal level Min. 3mV - Max 100mV / 1.8kW
• Frequency response	240 ÷ 20kHz
• S/N ratio	63dB
IN. 2	Programmable for following modes: ON / OFF / Precedence / VOX with A.P.T.
Socket (MIC)	Balanced XLR-F (with possibility of activating 24V phantom power supply)
• Sensitivity / Impedance	Signal level Min. 3mV - Max 100mV / 1.8kW
• Frequency response	240 ÷ 20kHz
• S/N ratio	63dB
Socket (LINE)	Balanced with terminals (HOT - COM - GND)
• Sensitivity / Impedance	Max signal level 1800mV / 31kW
• Frequency response	60 ÷ 20kHz
• S/N ratio	84dB
AUX	RCA stereo socket for source of sound (BGM) - Conversion to mono
• Sensitivity / Impedance	Max signal level 1800mV / 31kW
• Frequency response	60 ÷ 20kHz
• S/N ratio	84dB
Paging units	2 RJ45 for calling (PA) units ranges
• Sensitivity / Impedance	Max signal level 1400mV / 85kW
• Frequency response	60 ÷ 20kHz
• S/N ratio	83dB
EMERGENCY UNITS	RJ45 for connection to a dedicated emergency microphone station

OUTPUTS

SLAVE LINK OUTPUT	RJ45 for connection to an VAR 2006 / DPU / VAIE 2250 unit
• Output level / Impedance	Max 2000mV / 40W
CR8506-V LINK	RJ45 for connection to a VAC 2006 unit
• Output level / Impedance	Max 2000mV / 400W
• Sensitivity / Input impedance	2000mV / 50kW
Emergency controls	Programmable as Normally Activated or Normally De-activated
• Controlled inputs CONTACT	7 inputs with diagnostics
• Outputs R1, R2, R3	3 relays for signalling emergency conditions and failures, NO-NC-Changeover terminals
Precedence IN 1 - IN 2	Precedence input with terminals with common +12Vdc
LAN	Presa LAN RJ45 per collegamento TCP / IP a web server

CONTROLS & FUCTIONS



F1. Flush-mounted push-button for activating the Manual emergency mode.
F2. Hand-held microphone with a Push-to-Talk (PTT) key for live emergency announcements.

F3. Backlit black-and-white graphic display, 128x64 pixels.

R1. ON/OFF switch

R2. Inputs for connecting remote emergency microphone stations (MBT).

R3. Sockets for connection between VAC2006 controllers (up to 6 units).

R4. Input for connecting broadcast paging units.

R5. Balanced input for a microphone or outside source / Terminal block for connecting a precedente contact.

R6. Input for external microphone.

R7. Input for connecting an external source of music.

R8. 7 monitored digital inputs for control via external peripheral units.

R9. 6 output lines for connection to amplifiers of the DPU range and / or VAIE2250 compact system and / or VAR2006 routers.

R10. Socket for connecting a Local Area Network with TCP/IP protocol for an Ethernet 10/100network.

R11. 3 relay outputs for signalling towards external peripheral units.

R12. Terminals for 24Vdc external power supply.

R13. Frame earthing connection.

R14. Plug for 230Vac mains power supply, with built-in fuse.

TYPICAL CONFIGURATION

