

VM-3240VA CE

VOICE ALARM SYSTEM AMPLIFIER 240W



The VM-3240VA is a multifunctional amplifier that can be mounted in an EIA-Standard equipment rack (3-unit size). The unit comes with audio inputs including the background music input, and the speaker output section which has an internal attenuator and 6-output selector. It permits not only general-purpose broadcast, but also Emergency broadcast based on the EN60849 Standard which gives pre-recorded voice instructions in the emergency situation. Emergency broadcast can be made from an optional RM-300MF Fireman's Microphone as well as from the amplifier, and can be remotely controlled from external equipment. In addition, the unit features the surveillance function which automatically checks the system for failures.

Key features

- 1 unit per system
- 8 remote microphones max. (4x general + 4x emergency;
- EN 54: max. 2 x emergency or 4 x general +1 x emergency)
- 240 W power output
- 6 recorded general announcements and 2 recorded emergency announcements
- 8 remote microphones max. (up to 4 emergency remote microphones)
- 6 zones selectable from the front panel
- Built-in high quality electronic voice message

Specifications

Power Source	120 V AC, 60 Hz
Power Consumption	Power Consumption 690 VA (at rated output), 260 W (According to UL60065), 63 W (at no signal)
Rated Output	240 W
Frequency Response	50 Hz - 20 kHz, ± 3 dB (at 1/3 rated output)
Distortion	0.7 % or less (at rated output, 1 kHz)
Signal-to-Noise Ratio	85 dB or more
Audio Input/Output Characteristic	Sampling frequency: 48 kHz A/D D/A converter: 24 bit
Input	Input 1 - 3: -50 dB* (MIC)/-10 dB* (LINE) (changeable), 600 Ω , electronically balanced, combined XLR connector (female)/phone jack Input 4: -50 dB* (MIC)/-10 dB* (LINE) (changeable), 600 Ω , electronically balanced, removable terminal block (14 x 2 pins) BGM 1 - 2: -10 dB*, 10 k Ω , unbalanced, RCA pin jack External amplifier input: 100 V line, removable terminal block (14 pins)
Output	Speaker output 1 - 2: Max. (240 W) per output Speaker output 3 - 6: Max. (120 W) per output Speaker output 1 - 6: Total within 240 W, removable terminal block (14 pins) Allowable minimum load: 500 Ω (20 W) at 100 V line for speaker line failure detection Direct output: Direct output from internal or external amplifier, removable terminal block (16 pins) Recording output BGM/Paging: 0 dB*, 10 k Ω , unbalanced, RCA pin jack
RM Link	Input 1 - 2: Connecting the RM-300MF/RM-200M Remote Microphone. RJ45 female connector Maximum distance: Total 800 m (874.89 yd) between this unit and remote microphones Link cable: Category 5 Shielded Twisted-Pair straight cable (CAT5-STP)
Network I/F	10BASE-T / 100BASE-TX (selectable by automatic negotiation), RJ45 female connector Maximum distance: 100 m (109.36 yd) between this unit and a switching hub Link cable: Category 5 Shielded Twisted-Pair straight cable (CAT5-STP)
VM Link	Output: Connecting the VM-3240E or VM-3360E, RJ45 female connector Maximum distance: 800 m (874.89 yd) Link cable: Category 5 Shielded Twisted-Pair straight cable (CAT5-STP)
EXT PA Link	Connecting the VP-2241 or VP-2421, RJ45 female connector Maximum distance: 5 m (16.4 ft) Link cable: Category 5 Shielded Twisted-Pair straight cable (CAT5-STP)
General Control	Input 1 - 8: No-Voltage make contact input, open voltage: 24 V DC, short-circuit current: 2 mA or less, removable terminal block (14 x 2 pins) Output 1 - 8: Isolated open collector output, withstand voltage: 30 V DC, operating current: 10 mA or less, removable terminal block (14 x 2 pins)
Emergency Control	Input 1 - 5: No-Voltage make contact input, open voltage: 24 V DC, short-circuit current: 2 mA or less, RJ45 female connector Input 6: Isolated voltage input, Inactive: -24 V ± 20 %, Active: +24 V ± 20 %, RJ45 female connector Status out: Relay contact output, withstand voltage: 40 V DC, operating current: 2 - 300 mA, RJ45 female connector
ATT Control	Relay contact 1-6, 125 V AC or 30 V DC, total under 5 A, removable terminal block (16 pins)
Power Input/Output	Power in: Connecting the VX-2000DS only (operating range: 20 - 40 V DC) PS out: 28 V DC/18 A M4 screw terminal, distance between barriers: 11 mm (0.43")
DC24V Output	24 V DC, Maximum feeding current 0.3 A

DS Link	Connecting the VX-2000DS, RJ45 female connector Maximum distance: 5 m (16.4 ft) Link cable: Category 5 Shielded Twisted-Pair straight cable (CAT5-STP)
Operating Temperature	-5 °C to +45 °C (23 °F to 113 °F)
Operating Humidity	5 % to 95 %RH (no condensation)
Finish	Panel: Aluminum, hairline, black Case: Surface-treated steel plate, black, paint
Dimensions	482 (W) x 132.6 (H) x 431.2 (D) mm (18.98" x 5.22" x 16.98")
Weight	16.5 kg (36.38 lb)
Included Accessories	Power cable (2 m (6.56 ft) ...1, Setting software-CD ...1, Link cable (3 m (9.84 ft) ...2, Plastic foot ...4, Plastic foot mounting screw ...4, Removable terminal plug (14 pins)...3, Removable terminal plug (16 pins) ...1, Emergency microphone (hand-held type) ...1
Optional Accessories	Input transformer: IT-450

A&E specifications

Digital microprocessor-controlled voice alarm compact amplifier for voice alarm, announcements and background music. Integrated audio inputs, 8-level priority control, voice alarm control, power amplifier, circular dial and complete monitoring according to VDE 0828-1, EN 54-16 and VDE 0833-4.6 switchable and adjustable volume speaker outputs with a total of 240 Watt nominal power output. Three microphone / audio carrier inputs with switchable sensitivity as well as two stereo audio carrier inputs with volume control and tone control on front panel, one input switchable sensitivity and volume control back to prevent an intentional or unintentional adjustment, two speaking bus lines for up to four external stations. Front mounted acoustic and electronically monitored fire brigade microphone (first microphone) with control panel for controlling the alarm: emergency one and out, range selection, selection of evacuation and warning text. Fault indication with plain text display of the occurred error, acoustic signal and reset button. Password-protected setting the equalizer settings, language, password many more. and display relevant system information via menu on alphanumeric two-line display. LAN connection for system programming and read out of the log with detailed event and error messages to diagnose locally or to remote diagnosis. 8 universally usable inputs and 8 universally usable control outputs; 6 separate inputs for alarm control of the BMZ with switchable monitoring, one with 24-volt control (polarity); three separate control outputs with relay contacts for feedback to the BMZ: collective fault signal (changeover contact), emergency (changeover contact) and activated CPU off (make contact). Each line output a switching relay for example external volume control in 3- and 4-wire technology. An appropriate additional amplifier can be used as a rescue and announcement enhancer, in the second case, announcements are made without the interruption of background music in durchsagelose areas can be made. The monitoring of the additional amplifier is taken over by the compact amplifier. Extension of the system up to 60 areas with suitable extension amplifiers possible. The user-friendly multilingual programming software on Windows® is included. ®: Windows is a registered trademark of Microsoft Corporation