PLE-4MA240-CN Mixer amplifier, 4-zone, 240W

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- ► Class-D mixer amplifier, no active cooling
- ► 3 microphone inputs, one input switchable to line level with priority
- ➤ 3 music source inputs, including one 3.5mm minijack input
- ▶ Telephone and 100V emergency input
- 24V DC output for loudspeaker volume control override

The PLE-4MA240-CN is a high performance 4-zone mixer amplifier, built on energy efficient class-D technology. Three selectable music sources, including a front panel 3.5mm input for hand-held device connection, provide flexibility for background music source. Multiple levels of priorities and ducking of music make this amplifier an excellent choice for background music and business paging.

Functions

Microphone and line inputs

One microphone input (Input 1) can be switched between microphone level and line level sensitivity. The other two microphone inputs can be connected with XLR or TRS type connectors. Phantom power can be switched on to provide power to condenser microphones.

Input 1 can take priority over all other microphone and music inputs: Input 1 priority can be activated by contact closure on the PTT (push to talk). A 2-tone chime can be configured to precede an announcement.

Music inputs

Separate music inputs are available with their own input selector and volume control. The user can choose a music source like a CD/DVD player or radio (like the PLE-SDT), and set the level of music. A front panel music input makes it easier to connect a handheld device as music source.

Personalized settings

More unique features are available such as detachable labels where the user can write the names for inputs, music sources and output zones. These labels can then be mounted on the front, protected by the clear window. Another useful feature is to indicate preferred settings on the front panel by inserting colored pins at the preset levels of all knobs. You can then instruct a user to set all the controls to the silver pins to configure the system for their particular use. A second user can set all controls to the red pins for their configuration.

Integration

A telephone / 100V emergency input is provided for easy integration with a telephone paging system or another Public Address system. It has its own preset volume control and overrides all other inputs, including input 1.

The unit also provides a 24V DC output to override remote loudspeaker volume control whenever there is a telephone or emergency input signal.

The unit has a line output to add amplifiers for larger systems with more output power.

Tone controls

The tone controls provide separate control for high frequency (treble) and low frequency (bass) audio.

Power

The mixer amplifier has 240 Watt output power. This power is directly available on 100 V constant voltage connections.

Zones

The mixer amplifier has four zone outputs. The music or announcement can be switched on and off in the zones via the front panel. Announcements from the telephone / 100V emergency input are always routed to all zones.

Output status

An LED VU meter monitors the master output. A headphone socket, below the VU meter, provides the mixer output. For total reliability and ease of use, a limiter is integrated into the output stage to restrict output if the user applies too much signal.

Controls and indicators Front

- - · On/off switch
- · Power on LED
- · Volume knobs for mic/line inputs
- · Background music source selector
- · Volume knob for music
- · Four zone selector buttons
- · Knob for treble gain level
- · Knob for bass gain level
- · Master volume knob
- LED VU meter for master output (LEDs for -18, -12 -6, -3, 0 dB)
- · Headphone socket

Back

- DIP switches
- Ducking level
- Telephone / 100V emergency input

Interconnections

See Technical Specifications.

Installation/configuration notes



Rear view

Parts included

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Quantity	Component	
1	PLE-4MA240-CN PLENA Mixer amplifier	
1	Power cord	
1	Set of 19"mounting brackets	
1	Manual	
1	Important safety instructions	

Technical specifications

Electrical

Mains power supply	
Voltage	220-230 VAC, ±10%, 50/60 Hz
Power Consumption	
Rated Output (0 dB)	360W
-3dB	180W
Idle	20W
Performance	
Frequency response	70Hz to 18kHz (+1/-3dB @-10dB ref. rated output)
Distortion	<1% @ rated output power, 1kHz
Bass control	+/-12dB (frequency is setting dependent)
Treble control	+/-12dB (frequency is setting dependent)
Mic/line input	1x

Input 1 (Push-to-talk contact with ducking functionality)	5-pin, Euro style, balanced, phantom
Mic input	2x
Input 2-3	Combo (XLR or TRS), balanced, phantom
Sensitivity	1mV +1/-3dB (mic), 300mV +1/-3 dB (line)
Impedance	>1 kOhm (mic); >1.5 kOhm (line)
S/N (flat at max volume)	>60dB (mic), >70dB (line)
S/N (flat at min volume/muted)	>75dB
CMRR (mic)	60dB
Headroom	25dB
Phantom power supply	18VDC
Music input	3x
Aux 1-2	Cinch, stereo converted to mono
Aux 3	3.5mm mini-TRS; stereo converted to mono
Sensitivity	200mV +1/-3dB
Impedance	30 kOhm
S/N (flat at max volume)	>75dB
S/N (flat at min volume/muted)	>75dB
Headroom	20dB
Emergency/telephone	
Connector	5-pin, Euro style pluggable screw terminal
Sensitivity (telephone)	10mV ~100mV
Sensitivity (emergency)	10V-100V
Impedance	>10 kOhm

S/N (flat at max volume)	>80dB	
Line output	1x	
Connector	3-pin, Euro style pluggable screw terminal	
Nominal level	1V	
Impedance	<100 Ohm	
Loudspeaker Output		
Connector	Screw, floating	
Max/rated	240W	
Zones	4	
Priority	24VDC (for loudspeaker volume control override)	
Mechanical		

Dimensions (HxWxD)	100 x 430 x 270 mm (19" wide, 2U high, with feet)
Mounting	Stand-alone, 19" rack
Color	Charcoal
Weight (net)	Approx. 5 kg

Environmental

Operating temperature	-10 °C to +45 °C
Storage temperature	-40 °C to +70 °C
Relative humidity	<95%

Ordering information

PLE-4MA240-CN Mixer amplifier, 4-zone, 240W

Mixer amplifier, 240 W, 3 microphones and 3 background music (BGM) inputs, 1 telephone / 100V emergency input.

Order number PLE-4MA240-CN

Represented by:

Europe, Middle East, Africa: Bosch Security Systems B.V. Boscn Security Systems B.V. P.O. Box 80002 5600 JB Eindhoven, The Netherlands Phone: + 31 40 2577 284 emea.securitysystems@bosch.com emea.boschsecurity.com Bosch Sicherheitssysteme GmbH Robert-Bosch-Ring 5 85630 Grasbrunn Germany www.boschsecurity.com

North America:

North America: Bosch Security Systems, Inc. 130 Perinton Parkway Fairport, New York, 14450, USA Phone: +1 800 289 0096 Fax: +1 585 223 9180 onlinehelp@us.bosch.com www.boschsecurity.us

Asia-Pacific:
Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943
Phone: +65 6571 2808
Fax: +65 6571 2699
apr.securitysystems@bosch.com
www.boschsecurity.asia