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

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Telephone and 100V emergency input
24V DC output for loudspeaker volume control override

level with priority

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 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.

Class-D mixing amplifier, no active cooling

▶ 3 music source inputs, one front panel input

▶ 3 microphone inputs, one input switchable to line

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

Technical specifications

Electrical

| Mains power supply | |
|---|---|
| Voltage | 230V AC +/- 10%, 50 Hz |
| Inrush Current | <2A |
| Power Consumption | |
| Rated Output (0 dB) | 340W |
| -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 |

| 2x |
|---|
| Combo (XLR or TRS), balanced, phantom |
| 1mV +1/-3dB (mic), 300mV +1/-3 dB (line) |
| >1 kOhm (mic); >1.5 kOhm (line) |
| >60dB (mic), >70dB (line) |
| >75dB |
| 60dB |
| 25dB |
| 18VDC |
| Зх |
| Cinch, stereo converted to mono |
| 3.5mm mini-TRS; stereo converted to mono |
| 200mV +1/-3 dB |
| 30 kOhm |
| >75dB |
| >75dB |
| 20dB |
| |
| 5-pin, Euro style pluggable screw terminal |
| 10mV ~100mV |
| 10V-100V |
| >10 kOhm |
| >80 dB |
| Threshold 15mV +/-2dB; |
| |

| 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. 9 kg | | |
| Dimensions (HxWxD) | 100 x 430 x 270 mm (19" wide, 2U high, with feet) | | |
| 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 CN Mixer amplifier, 240 W, 3 microphones and 3 background music (BGM) inputs, 1 telephone / 100V emergency input. Order number PLE-4MA240-CN

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