

S E R I E S  
T W O

# MPS 2300



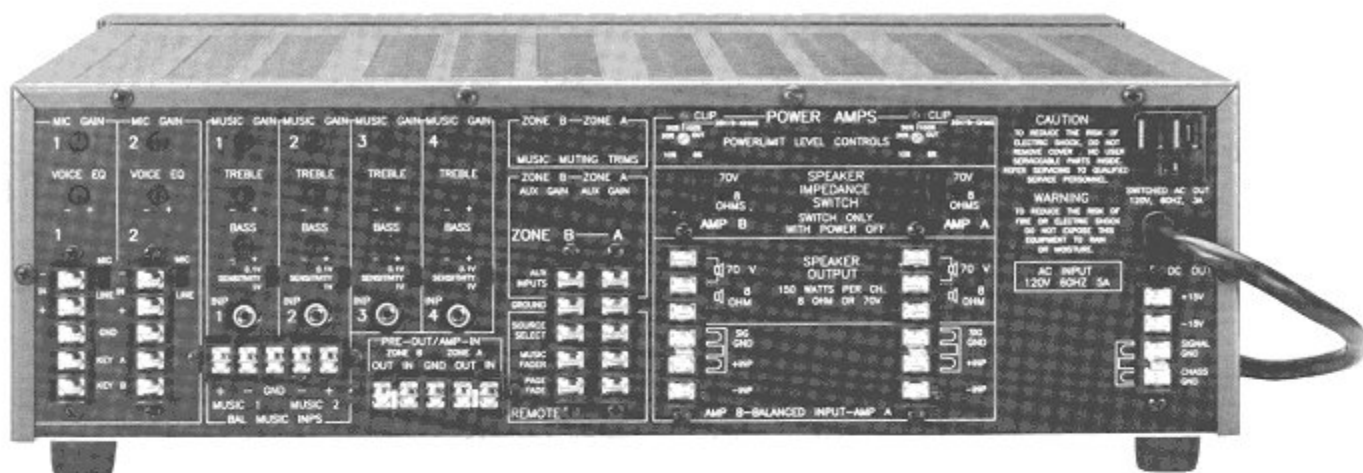
The QSC MPS 2300 is a two zone Music and Paging System designed for today's installed foreground sound systems. The MPS 2300 combines advanced mixer/preamp, signal processing, and power amplifier technology in a simple to install package. The front panel controls are easy to use and the back panel is an installers dream. Extensive equalization, built-in limiters, and microphone AGC, virtually eliminate the need for costly plug in modules and outboard signal processing.

QSC Audio has been a leader in the production of quality amplifiers for over fifteen years. The MPS 2300 and all of the Series Two line of products bring high performance audio to the foreground. All QSC products are Made in America and backed by a three year warranty.

## FEATURES:

- Two Zone or One Zone Stereo Operation
- Two Mic Inputs with Built-In AGC
- Four Music Inputs
- Two Auxiliary Inputs
- Adjustable Music Muting
- Built-In Adjustable Limiters
- Extensive Speaker Equalization Controls
- Output Level Meters, Signal Present and Assignment LEDs
- Transformerless Audio Circuit
- Turn on/Turn off Muting
- Optional Remote Control
- Three Year Warranty

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## MPS 2300 SPECIFICATIONS

**TYPE:** 8-channel, 2-zone, music and paging mixer amplifier.

### SPECIAL FEATURES:

- Fixed mic AGC.
- Adjustable music muting.
- Adjustable PowerLimit™ output limiting.
- Auxiliary ±15V power supply.
- Remote control Page Volume, Music Volume and Music Source selection.

### OUTPUT POWER (per channel, both channels driven):

- 150 watts RMS, 20-20 KHz, 0.1% THD, (70V).
- 125 watts RMS, 20-20 KHz, 0.1% THD, (8 Ohm/25V).

### FREQUENCY RESPONSE:

- 20-20 KHz, -1.5 dB, (8 Ohm/25V).
- 3 dB rolloff, 60 Hz, (70V).

### DISTORTION: (8 ohms or 70V) .01% THD @ 1 KHz.

### INPUT SENSITIVITY/IMPEDANCE:

- Mic Input channels:
  - 0.8 mV-190 mV, 2K ohm balanced (mic position).
  - 37 mV-9V, 100K ohm balanced (line position).
- Music Input channels:
  - 0.04V-10V, 10K ohm (0.1V Sensitivity sw).
  - 0.4V-10V, 10K ohm (1V Sensitivity sw).
- Aux Input channels: 0.25V, 20K ohms.

### PRE-AMP OUT: 1V nominal, 100 ohm, (10V maximum).

### POWER AMP IN: 1V, 10K unbalanced, 20K balanced.

### POWER AMP OUTPUTS:

- 8 ohms/25V, direct coupled unbalanced.
- 70V, direct coupled balanced.

### OUTPUT REGULATION:

- Less than 0.04 dB no load to full load (Equivalent damping factor, 200).

### NOISE (20-20 KHz, Tone Controls Centered):

- Master Volume on minimum: -100 dB.
- Master Volume on maximum, 1V input: -83 dB.
- Master Volume on maximum, 0.1V inp: -73 dB.

### FRONT CONTROLS (each zone):

- Master Treble: ±10 dB at 15 KHz.
- Master Bass: ±10 dB at 50 Hz.
- Master Volume: -6 dB on center detent.
- Music Volume: 0 dB on center detent, +6 dB max.
- Music Source assignment, 4-position + off/remote.
- Paging Volume: 0 dB on center detent, +6 dB max.
- AC Power, push on/off.

### REAR CONTROLS:

- Page channels (1 & 2)
  - Mic Gain
  - Voice EQ (cut at 1 KHz, boost at 3 KHz).
  - Mic/Line switch.
- Music channels (1-4):
  - Music Gain
  - Treble (±10 dB at 10 KHz)
  - Bass (±10 dB at 100 Hz)
  - 0.1V/1V Sensitivity switch.

### REAR CONTROLS (Continued):

- Aux channels (zones A & B): Aux Gain.
- Music Muting Trims: (zones A & B).
- PowerLimit™ Controls: (zones A & B).
- Speaker 70V/8 ohm switches: (zones A & B).

### FRONT INDICATORS:

- 2 illuminated Output meters (zones A, B).
- 2 Mic Input Signal LEDs, Mic 1, 2 (yellow).
- 4 Music Input Signal LEDs, Ch. 1, 2, 3, 4 (yellow).
- 4 Mic Assign. LEDs, Mic 1, 2/Zones A, B (green).
- 8 Music Assign. LEDs, Ch. 1, 2, 3, 4/Zones A, B (green).

### REAR INDICATORS: 2 Clip LEDs, Zones A, B (red).

### PROTECTION AND PROCESSING CIRCUITS:

- Turn-on/off muting.
- Mic AGC (fixed, with articulation boost).
- Adjustable PowerLimit™ output limiting.
- Patented short circuit, open circuit, ultrasonic and RF protection (self resetting).
- Stable into reactive and mismatched loads.
- Inputs protected from overload.
- DC Fault speaker protection (DC shutdown).
- Power transformer & heat sink thermal protection.
- Internal amplifier fault fuses.

### AUXILIARY POWER SUPPLY:

- Regulated ±15V, 500 mA, 1.4A peak current.
- Short-circuit protected, however shorting external supply will interfere with normal operation.

### REMOTE FUNCTIONS (each zone):

- Music Channel select, Page level, Music level.
- DC controlled using unshielded wiring.

### CONNECTORS:

- Music Channels 1-4: Unbalanced phono jacks.
- Music Channels 1-2: Balanced barrier inputs.
- Mic Inputs 1-2: Balanced barrier inputs.
- Switched AC outlet.
- All other connections: barrier.
- Barrier Strips all on 3/8-inch centers.

### POWER CONSUMPTION:

- AC 120V, 60 Hz, 5A.
- Switched Accessory outlet, 3A.

### COOLING: Passive, side, top and bottom vents.

### TEMPERATURE RANGE: -10°C to +60°C (12°F to 140°F)

### DIMENSIONS:

- 5.25" Tall + 0.75" for feet, 17" Wide (19" Wide in rack mount configuration),
- 12" Deep chassis + 0.5" front and back for knobs.

### WEIGHT: 29 lbs. net, 35 lbs. shipping weight.

### COLOR: Dark grey.

### STANDARD ACCESSORIES:

- 6 knob lock-outs. Sheet of Site Labels. On-Site User's Manual

### OPTIONAL ACCESSORIES: Remote control panel. Rack mounting brackets.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

