

# PA870

## EIGHT-CHANNEL POWER AMPLIFIER



### PRODUCT OVERVIEW

The PA870 is Gentner's eight-channel power amplifier. The PA870 leaves the competition behind by accommodating 8-ohm and/or 70-volt speaker systems. This means you now have zoning and room-combining options not possible with other power amplifiers.

The PA870 delivers 25 watts (at 8 Ohms and 70 Volts) of power to each of the eight channels. It allows bridging in a one-channel input/two-channel output configuration for 50 watts of power. Bridge switches simplify bridging set-up and protect against damaging cross-connections. An LED indicates bridging status.

The PA870 includes presence and clip LEDs on the front and back panels to notify you of signal status and help you minimize clipping.

And, since the PA870 requires just two rack units of space, it conveniently fits in any small space that requires multiple channels of amplification. Plus, there are no moving parts or fans, so the PA870 operates quietly.

With Gentner's PA870 Power Amplifier, you get the unmistakable engineering and solid sound you'd expect from Gentner.

### APPLICATIONS

- Multiple Zones and Room Combining
- Boardrooms
- Conference Rooms
- Courtrooms
- Meeting Rooms
- Training Rooms
- Small Auditoriums
- Houses of Worship
- Intercom Systems
- Medical Facilities

### FEATURES/BENEFITS

The solid, sound-enhancing features you get with Gentner's PA870 include:

- Drives 8 Ohm and/or 70 Volt Speaker Systems
- 8 Separate Amplifier Channels
- Bridgeable Channels at 8 Ohms
- Presence, Clip, and Bridge LED indicators for Each Channel on Both the Front and Rear Panels for Simplified Set-up
- Uses only Two Rack Spaces
- No Fan
- Thermal and Short-circuit Protected
- Rear Panel Volume Controls
- Simple Set-up and Operation

**Gentner**<sup>®</sup>

1 . 8 0 0 . 9 4 5 . 7 7 3 0  
1 . 8 0 1 . 9 7 5 . 7 2 0 0

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## EIGHT-CHANNEL POWER AMPLIFIER



### SPECIFICATIONS

#### DIMENSIONS (W/H/D):

19" (48cm) x 13" (33cm) x 3½" (9cm)

#### WEIGHT:

30 lbs. (13.6 kg)

#### POWER REQUIREMENTS:

120VAC, 50-60Hz.

#### POWER CONSUMPTION:

600 watts

#### CONNECTORS (each channel):

Input: Removable Phoenix (line-level only)

Output: "Touch-proof" binding posts

#### AUDIO PERFORMANCE

##### General Voltage Gain (dB):

Single Input: 26dB

Differential Input: 32dB

##### Sensitivity (for rated power @ 8 ohms):

1.0 Vrms

##### Distortion: SMPTE-IM, less than 0.05%

##### Frequency Response: 20Hz to 20 kHz, ±1dB, full power rated

##### Damping Factor: Greater than 400

Noise: 105dB below rated output (A weighted)

Input Impedance: 10k ohms balanced, 5k unbalanced

#### 8 Ohm Configuration

Output Power Per Channel from 20Hz-20kHz: 25 Watts into 8Ω

THD: <.05% at rated power

Crosstalk: Better than 90dB

Intermod Distortion: Better than .025%

#### 70 Volt Configuration

Output Power Per Channel from 80Hz-20kHz: 25 Watts into 8Ω

THD: <.05% at rated power

High Pass Filter: -3.5dB @60Hz

Crosstalk: Better than 85dB

Intermod Distortion: Better than .025%

#### Bridged Configuration

Output Power Per Bridged Channel Pair from 20Hz-20kHz : 50 Watts into 8Ω

THD: <.05% at rated power

Crosstalk: Better than 90dB

Intermod Distortion: Better than .025%

### CONTROLS

#### Front:

AC switch, AC circuit breaker.

#### Back:

Bridge switch, Ch. 1 to Ch. 8 gain knobs

#### Indicators:

Power On: Red On/Off switch

Signal Presence/Clip: Green/Red LED (front/rear)

Bridging: Amber LED (front/rear)

### PROTECTION

#### Cooling:

Passive

#### Amplifier Protection:

Full short circuit protection, thermal, open circuit, ultrasonic, and RF protection. Stable into reactive or mismatched loads.

#### Load Protection:

On/Off muting, DC fault protection

### COMPLIANCE

This equipment meets regulatory compliance standards for CSA C22.2 No. 1-98—Safety Standard for Audio, Video and Similar Electronic Equipment and UL 813—Safety Standard for Commercial Audio Equipment.

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