

# Zone Paging Module

## Model ZPM3



**Description** The Bogen ZPM3 is a telephone-compatible zone paging module with all-call and talk back capabilities serving up to three one- or two-way paging zones. The ZPM3 can also be used in a paging system independent of a telephone system.

The ZPM3 works with self-amplified or central-amplified paging systems. A background music source can be connected directly to the ZPM3, or to a separate amplifier that can be used to supply background music to all unpagged zones.

Built-in DIP switches are used to select the field-programming mode, enable/disable the pre-announce and confirmation tones, and set the paging mode (one-way or talk back) of each zone.

Field-programming is used to assign individual zones to the paging zone groups, night ringer zone group, and shift change/emergency-call zone group\*. Field-programming is also used to enable/disable the privacy beep for two-way zones, select the shift change/emergency-call tone, and inhibit all-call operation.

A control is included to adjust the volume of the pre-announce, confirmation, and shift change/emergency-call tones. Separate controls are provided to adjust the night ringer tone and background music volume. All volume controls are screwdriver-adjustable.

### Features

- 3 Zone paging plus All-Call
- 3 Field-programmable paging zone groups (1-3 zones in each)
- One-way and two-way paging (talk back operation requires TBA15 Talk Back amplifier)
- Direct connection to page ports (requires contact closures), loop-start and ground start trunks
- Connection to an analog station line (station port) possible when used with a suitable telephone access module, e.g., Bogen Model TAMB2
- 100W total power handling capacity
- Background music input
- DIP switches select zone type (one way or talk back), talk battery (24V/48V), and tone options
- Built-in night ringer in all zones or group of three user-selected zones
- Shift change or emergency-call (with alert tone) in all zones or group of three user-selected zones\*
- Programmable All-Call inhibit and privacy beep for talk back zones
- Screw terminal block connections
- Separate volume controls for tones, night ring, and background music
- Works with self-amplified or central-amplified paging systems
- Optional battery backup
- 24V power supply required; Bogen Model PRSLSI power supply recommended
- Terminals provided for connection to an additional 48V power supply when 48V talk battery operation required (Bogen PRS48 power supply recommended)
- Registered under Part 68 of FCC rules
- Includes flanges with keyhole slots for wall-mounting

\* The shift change/emergency-call feature requires additional customer-supplied equipment — master clock with a contact closure or pre-amplified microphone with built-in or external contact closure.



## Technical Specifications

<b>Ringer Equivalence:</b>	0.9B
<b>Operating Voltage:</b>	24V DC, 350 mA minimum; Model PRSLSI Power Supply Recommended
<b>Operating Current (Max.):</b>	350 mA
<b>Audio Power Capability:</b>	100W (70V AC or 25V AC)
<b>DTMF Tones:</b>	Signal Level: 25 dBm; Twist Limit: 10 dB; Tone Duration (min.): 40 ms; Interdigit Pause: 40 ms
<b>Zone Selection:</b>	Dial Pulse Speed: 8 to 20 ppm; Percent Break: 52% to 64%
<b>Environmental:</b>	Operating Temperature: 0° to 125°F; Operating Humidity: 0 to 95% noncondensing
<b>Dimensions (Overall):</b>	9" W x 7-1/4" H x 1-3/8" D (includes wall-mounting flange)
<b>Product Weight:</b>	3 lb.
<b>Approvals:</b>	Registered under Part 68 of FCC rules

## Architect & Engineer Specifications

The zone paging control module shall be a Bogen Model ZPM3. It shall be designed for direct connection to loop start and ground start trunks, and to PBX or KEY paging ports that supply a normally-open contact closure and DTMF capability. It shall also connect to analog station ports using a suitable access module.

The unit shall include flanges with keyhole slots for wall-mounted installation and screw terminal block. Operation shall require a 24V power supply for all applications. Contacts shall be provided for connection to an additional 48V power supply when 48V talk battery operation is required.

The paging control module shall be registered under Part 68 of FCC rules and shall provide at least the following features and functions:

1. Up to three one- or two-way paging zones plus All-Call.
2. Total power handling capability of 100 watts and operation with self-amplified paging systems or central-amplified paging systems.
3. Up to three paging zone groups. Each paging zone group shall be field-programmable and shall contain up to three user-selected zones.
4. Night ringer circuitry which, when activated by high-voltage ring signal or contact closure, shall sound a night ringer tone in all zones. Alternately, it shall be possible to field-program (via tone phone) a night ringer zone group that shall sound the night ringer tone in up to three user-selected zones.
5. Shift change or emergency call signalling as described below:

— **(Use for shift change feature)** A shift change tone feature shall be provided. This feature shall be activated by a customer-supplied contact closure, which will energize the relay, disconnect any current page, and sound a user-selected tone in all zones. Alternately, it shall be possible to field-program (via tone phone) a shift change zone group that shall sound the shift change tone in up to three user-selected zones.

— **(Use for emergency call feature)** An emergency call feature shall be provided. This feature shall be activated by a customer-supplied contact closure (requires a preamplified microphone with built-in contact closure or microphone and other customer-supplied switch). The emergency call feature shall override the normal paging features of the module, sound a user-selected alert tone in all zones, and open an audio channel for the emergency page. Alternately, it shall be possible to field-program (via tone phone) an emergency call zone group which shall preempt normal operation, sound the alert tone, and open the audio channel for an emergency page in up to three user-selected zones.

— **(Use for shift change and emergency call feature)** A choice of tones shall be provided for the shift change signal (or emergency call alert signal). The desired tone shall be selected via field programming and shall consist of either a single-tone burst or dual-tone burst, each with a duration of one second.

6. Built-in DIP switches which shall enable/disable the field-programming mode, select the zone type (one-way or two-way), Talk Battery type (24V or 48V), and tone options (pre-announce and confirmation tones).
7. Field-programming from a touch-tone phone. Field-programmable functions shall include assigning individual zones to the paging zone groups, night ringer zone group and shift change/emergency call zone group. Field-programming shall also be used to enable/disable a privacy beep over two-way (talk back) zones, select the desired shift change/emergency-call tone, and enable/disable access to All-Call paging.
8. Mute contacts shall go to a normally-open state whenever the unit is accessing a two-way zone. These contacts may be used to operate the talk back muting function on talk back amplifiers.
9. External contact closure for activating external equipment or for use in ground start trunks, shift change and emergency call applications. The contacts shall change state when the unit goes off hook.
10. Capability of providing uninterrupted background music to all zones not being paged.
11. Battery backup option which will retain user-programmed parameters for up to two hours in the event of a power failure. The battery backup option shall require four (4) AA size nickel cadmium batteries.
12. Background music source input terminal and screwdriver-adjustable volume control.
13. Screwdriver-adjustable volume control of confirmation, pre-announce, error, and shift change/emergency call tones.
14. Screwdriver-adjustable night ringer volume control.
15. Wall-mounting design with dimensions of 9" W x 7-1/4" H x 1-3/8" D. Product weight shall be 3 lb.

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