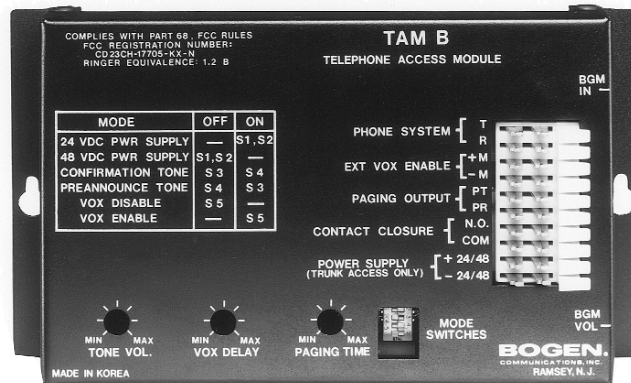


# Telephone Access Module

## Model TAM-B



### Features

- Dual-mode, station port or trunk port paging access
- 24V or 48V operation (trunk port mode)
- Preannounce and confirmation tones
- Calling-party-controlled disconnect
- Background music input jack and volume control
- Wall-mounting design

### Description

The Bogen TAM-B Telephone Access Module is a unique, dual-purpose voice paging adapter designed as an interface from a telephone system to a paging system. This versatile unit offers the capability of station port or trunk port operation, and is compatible with the full range of currently available telephone systems, i.e., PABX, stand-alone IA2-Key, Electronic Key, Hybrid Electronic Key, or Centrex. Advanced design, and Bogen dependability make TAM-B the perfect choice for simple or complex telephone paging applications. The TAM-B mounts quickly and easily to a backboard; all controls and switches are readily accessible without removing the cover. No power supply is required when it is connected to a PABX station port or Centrex line. When the TAM-B is operated in the trunk port access mode, a 24VDC or 48VDC power supply is required and connects to a 66-type terminal block. The unit can supply either 24V or 48V talk battery to a trunk port (requires suitable power supply).

When used in the station port mode, the TAM-B provides for one of three disconnect methods following a page: (1) Calling-Party-Controlled (CPC - loop current interruption), (2) Voice-Operated (VOX) and (3) Default timer. The CPC recognizes a line-issued disconnect (on-hook) signal and immediately disengages the paging circuit. The voice-operated disconnect preempts the default disconnect timer and is enabled via the mode switches; the TAM-B will disconnect after a predetermined interval of silence (2 to 6 seconds) has elapsed following a page announcement. The default disconnect timer causes the TAM-B to release after a user-predetermined period of time (approximately 6 to 35 seconds); this ensures that the TAM-B will always disengage the line if the other disconnect functions are disabled or inoperative.

When the TAM-B is used with a Bogen zone control module, automatic control of the VOX disconnect option can be effected. The TAM-B will suspend the VOX operation when the control module is used in the talk-back mode and the default timer will determine the paging duration (calling-party control is also available in this circumstance). When the zone control module selects a talk-only zone, normal VOX operation is resumed.

When the TAM-B is used in the trunk port access mode, paging is automatically terminated upon release of the trunk port. A switch-selectable preannounce tone (heard at the telephone and at the loudspeakers), or confirmation tone (heard only at the telephone) is provided, as is a normally-open contact closure, which enables the TAM-B to be used on ground start trunks. When used on a loop start trunk, this contact can be used to control external equipment or functions, such as the muting of a talk-back amplifier.

A background music input (with RCA-type jack and screw-driver-adjustable volume control), which will accept a line level input from a background music source, is provided. The input is ideal for use with the Bogen model FMR, FM radio/tuner, and permits use of background music with amplified speaker systems as well as with central paging amplifiers. The TAM-B measures 1-7/8" x 8-1/8" x 4-1/2", features durable steel construction, and is finished in black enamel with white lettering. The unit complies with Part 68 of FCC Rules.



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**Registered under Part of 68 FCC Rules**

**Technical Specifications**

<b>Ringer Equivalence:</b>	1.2B
<b>Station Port Compatibility:</b>	Two-wire ring start
<b>Trunk Port Compatibility:</b>	Two-wire loop start or ground start
<b>Paging Frequency Response:</b>	200 – 8000Hz, $\pm 1$ dB
<b>Input/Output Impedance:</b>	600-ohms, nominal
<b>Power Requirements:</b>	
<b>Station Port Access Mode:</b>	None;
<b>Trunk Port Access Mode:</b>	24VDC @ 90mA or 48VDC @ 105mA
<b>Preannounce/Confirmation Tones:</b>	800Hz, $\pm 20\%$ , one-half second duration
<b>Default Disconnect Timer:</b>	6 to 35 seconds, adjustable
<b>VOX Disconnect Timer:</b>	2 to 6 seconds, adjustable
<b>Auxiliary Contact Rating:</b>	2A, 30VDC
<b>Operating Temperature Range:</b>	32° – 120°F.
<b>Connection Method:</b>	10-pin 66-type punch block (requires 66-type punch-down tool)
<b>Finish:</b>	Black enamel with white lettering
<b>Dimensions:</b>	1-7/8" x 8-1/8" x 4-1/2" (4.8 x 20.6 x 11.4cm)
<b>Shipping Weight:</b>	2 lbs (.9kg)
<b>Associated Equipment:</b>	Bogen ZPM3 and ZPM9 Zone Control Modules; Power Supplies; Model FMR Tuner

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The telephone-access voice-paging adapter shall be a Bogen Model TAM-B capable of providing either trunk port or station port access to paging amplifier/amplified speakers, multi-zone paging adapter, or talk-back amplifier/amplified speakers.

The adapter shall have station port compatibility, 2-wire analog with a ringer equivalence number of 1.2B, and trunk port compatibility with 2-wire loop start or ground start. The paging frequency response shall be 200Hz to 8000Hz,  $\pm 1$ dB, and the input/output impedance shall be 600-ohms, nominal.

**Architects and Engineers Specifications**

When used in the station port access mode, the device shall be line-powered and shall not require an external power supply; when used in the trunk port access mode, it shall operate from 24VDC @ 90mA, or 48VDC @ 105mA. The unit shall be capable of generating an 800Hz ( $\pm 20\%$ ), 1/2-second duration signal to be used as a preannounce or confirmation tone; the tone level shall be controlled by a single screwdriver adjustment which shall be accessible without removing the cover.

When used in the station access mode, the device shall be capable of three methods of release following a page: (1) Loop Current Interruption, (2) Voice-Operated Disconnect, and (3) Default Disconnect Timer. The loop current interruption detection circuit shall, if the particular line to which the device is connected issues a disconnect signal (a loss of loop current for longer than 30 milliseconds), recognize this signal and immediately disconnect the device from the line. The voice-operated disconnect circuit shall be enabled/disabled via mode switches or an external signal. A default disconnect timer circuit shall set the maximum time allotment for paging and ensure that the

unit will always disengage the line if the other disconnect circuits are inoperative. The default disconnect timer duration shall be adjustable from 6 to 35 seconds and the VOX disconnect timer duration shall be adjustable from 2 to 6 seconds; these controls shall be accessible without removal of the cover and they shall be screwdriver-adjustable.

When used in the trunk port access mode, the device shall automatically terminate paging access upon release of the trunk port.

An RCA-type jack shall be included to accept a line level input from a suitable background music source. A screwdriver-adjustable control shall be provided to set the background music volume.

One set of normally-open contacts shall be provided for use with the ground start trunk port operation or for auxiliary equipment control; the contacts shall be rated at 30VDC, 2A. The device shall be mounted in a steel enclosure and finished in black enamel with white lettering. It shall comply with Part 68 of FCC Rules and Regulations. The FCC Registration Number and Ringer Equivalence Number shall appear on the front panel.

The overall dimensions shall be 1-7/8" x 8-1/8" x 4-1/2" (4.8 x 20.6 x 11.4cm). The shipping weight shall be two pounds (.9kg).



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