**General Description**

The Bose FreeSpace system controller can be used with Bose business music products. It features:

- Active equalization for FreeSpace Model 8, Model 25, Model 32, and Bose 102 loudspeakers
- Two channels of non-equalized line output which can be used to interconnect with systems like the Bose FreeSpace One and FreeSpace 6 business music systems
- Three separate input channels for microphone, Channel A, and Channel B
- Opti-voice circuitry for paging capability
- Rack mount enclosure allows simple installation

**Technical Specifications**

The rear panel has screw-type quick connect terminal block connectors for the following inputs and outputs:

**Page Input Sensitivity**
- At microphone: 5mV nominal
- At line: 100mV nominal

**Page Input Impedance**
- Microphone: 3kΩ (balanced)
- Line: 200kΩ (balanced)

**Channel A and Channel B Input Sensitivity**
- At 300mV switch position: 200mV nominal
- Input Impedance: 15kΩ (balanced)
- At 2V switch position: 1V nominal
- Input Impedance: 2kΩ (balanced)

**Line Output (Unequalized)**
- Output level: 6V RMS max
- Output impedance: 600Ω (balanced)
- Frequency range: 40Hz – 20kHz
- Paging: Channel A and Channel B individually switchable

**Model 8 Output (Equalized)**
- Output level: 6V RMS max
- Output impedance: 600Ω (balanced)
- Frequency range: 80Hz – 16kHz
- PAGING: Channel A page always on; Channel B page switch selectable

**Model 25/Model 32/Bose 102 Output (Equalized)**
- Output level: 6V RMS max
- Output impedance: 600Ω (balanced)
- Frequency range: 80Hz – 16kHz
- PAGING: Channel A page always on; Channel B page switch selectable

**LED Indicators**
- 2 LED indicators on front panel signal power on and page in use
- LED indicator on rear panel for adjusting page volume

**Opti-voice Paging Circuitry**
- Voice band-pass equalization for good speech intelligibility
- AGC circuit for automatic compensation of varying input levels
- Gradual return of music to original level after page

**Rear Panel Switches**
- Gain control switches
  - Channel A and Channel B: 300mV – 2V
  - Page: Line and microphone
- Bass cut switch: cut 6dB at 90Hz
- Line output switch: turn page on or off for line A and B
- Model 8/Model 32 output switches: turn page on/off for Channel B
- Audio Ground Switch: set GND to connect audio ground and chassis ground
  - Set OPEN to disconnect audio ground from chassis ground

**Power Requirements**
- 100V, 120V, 220-240V ~ 50/60Hz

**Power Consumption**
- 7 Watts

**Regulatory Compliance**
- Complies with UL-813, UL-1711, CSA-C22.2, No. 1- M1990, EN-60065 and MITI

**Dimensions**
- 1.63" (H) x 19" (W) x 10" (D)
- (4.13 (H) x 48.26 (W) x 25.4 (D) cm)

**Weight**
- 5.5 lb (2.5 kg)
Specifications

Engineers' and Architects' shall be selectable for the paging channel. Either page or line input terminal blocks for all input and output shall use screw-type quick-connect. A standard 19" equipment rack. rack-mountable in a single space of amplifier(s). The controller shall be before the input(s) of the system power. The system controller is to be connected can be used to power music systems. The system controller provides active electronic equalization for 8 Watt, 25 Watt, and 32 Watt ceiling loudspeakers. It also provides non-equalized line output which can be used to power music systems. The system controller is to be connected before the input(s) of the system power amplifier(s). The controller shall be rack-mountable in a single space of a standard 19" equipment rack. The rear panel of the system controller shall use screw-type quick-connect terminal blocks for all input and output connectors. The controller shall have input for microphone, Channel A, and Channel B. Either page or line input shall be selectable for the paging channel.

The sensitivity of the page input shall be 5mV (nominal) at the microphone and 100mV (nominal) at line. The impedance of the page input shall be 3kΩ, balanced, for the microphone and 200kΩ, balanced, for line input. Channel A and Channel B input shall have a sensitivity of 200mV nominal at the 300mV switch position and input sensitivity of 1V nominal at the 2V switch position. The input impedance of Channel A and Channel B shall be 15kΩ (balanced) at the 300mV position and 2kΩ (balanced) at the 2V position. The unequalized line output shall have maximum output level of 6V RMS. The output impedance shall be 600Ω balanced. The frequency response of the line output shall be 40Hz to 20kHz. Paging shall be individually switchable for Channel A and Channel B. The equalized output to the loudspeakers shall have a maximum output level of 6V RMS. The output impedance shall be 600Ω balanced. The frequency response shall be 80Hz to 16kHz for the loudspeakers. Channel A always has paging on; Channel B paging shall be switchable.

The front panel of the system controller shall have a power switch and two LED indicators which signal power on and page on. A LED indicator on the rear panel of the system controller shall indicate when the page volume has reached its optimum level. Bass cut switches for Channel A and Channel B, for reducing acoustic feedback to the microphone, shall be located on the rear panel. The rear panel shall also have output switches for line output which turns page on or off for line A and B, as well as output switches for both loudspeakers which turn page on or off for Channel B. An open-to-chassis ground switch shall also be located on the rear panel.

The system controller can operate with 100V, 120V, and 220-240V voltages at 50/60Hz. The system controller shall consume 7 Watts of power. The unit shall be 1.63" (4.13 cm) high, 19" (48.26 cm) wide and 10" (25.4 cm) deep. It shall weigh 5.5 lb (2.5 kg).

The system controller shall be the Bose® FreeSpace® system controller.

Warranty Information

The Bose® FreeSpace® system controller is covered by a 5-year, transferable limited warranty.

Bose Corporation, Professional Products Division, The Mountain, Framingham, MA 01701-9168 USA
TEL (508) 879-7330  FAX (508) 872-6541
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