

# Buffer-Expander Volume Control

## Model BUFEX



**Description** The BUFEX is a continuously variable speaker attenuator that can remotely control the volume of a network of speakers. The BUFEX also provides output buffering for up to 150 self-amplified speaker inputs and allows speaker system expansion of existing 100V, 70V, or 25V central amplifier systems. The BUFEX includes a bypass function that can override the volume control knob setting when activated by a contact closure or open collector output. This allows emergency announcements to be heard through all speakers in a system even if the volume control knob setting is set low or off. A PCB-mounted bypass trim control adjusts the volume when in bypass mode with a maximum of 12 dB of attenuation. The BUFEX fits into a single gang electrical box.

- Features**
- Continuously variable attenuator
  - Drive up to 150 self-amplified speaker inputs
  - 100V, 70V, 25V, and page port level selectable input
  - Bypass trim control for emergency paging (12 dB of preset control over level of bypass announcements)
  - Mounts in a single gang electrical box
  - Rugged and attractive stainless steel plate with engraved lettering
  - Easy and secure terminal strip connections
  - Two-Year Warranty

### Technical Specifications

Supply Voltage: 24V DC  
 Current Consumption: 1 CU (50 mA)  
 Output Impedance: 8 ohms  
 Volume Control Range: 0 to -50 dB  
 Bypass Voltage: 10V

Bypass Trip Current: 0.8 mA  
 Speaker Drive Capacity: 150 Self-Amplified Speakers  
 Input Compatibility: 100V, 70V, and 25V  
 Dimensions: 2-<sup>13</sup>/<sub>16</sub>" W x 4-<sup>9</sup>/<sub>16</sub>" H x 2-<sup>3</sup>/<sub>8</sub>" D  
 Product Weight: 3 oz.

### Architect & Engineer Specifications\*

The Level Controller shall be a continuously variable speaker attenuator that can remotely control the volume of a network of speakers, Bogen Model BUFEX. It shall provide output buffering for up to 150 self-amplified speaker inputs and allow speaker system expansion of existing 100V, 70V, or 25V central amplifier systems.

The BUFEX shall include a bypass function for overriding the volume control knob setting when activated by a contact closure or open collector output. A PCB-mounted bypass trim control shall adjust the volume when in bypass mode with a maximum of 12 dB of attenuation.

The BUFEX power consumption shall be 1 CU (50 mA) @ 24V DC.

The Tip (T) and Ring (R) connections shall be audio outputs with an output impedance of 8 ohms.

The BUFEX shall have a rugged and attractive stainless steel plate with engraved lettering.

The BUFEX shall measure 2-<sup>13</sup>/<sub>16</sub>" W x 4-<sup>9</sup>/<sub>16</sub>" H x 2-<sup>3</sup>/<sub>8</sub>" D and fit into a single gang electrical box. The BUFEX shall weigh 3 ounces.



\* Architect and Engineer Specifications are available online in a Word document to assist you with preparing your bids.

Specifications subject to change without notice.  
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