

OPERATION

A listen-in session can be initiated from any zone which has the "two way listen-in" option enabled. After the zone alarm is transmitted, the dialer will hold the line for up to 60 seconds, allowing the CS Operator to press the tone command *55* to initiate listen-in. If this tone command is not received, the dialer will hang-up and release the phone line.

NOTE: An active two way session will terminate automatically after 3 minutes, unless manually extended using command 7. Tone Commands are summarized below:

Tone Commands:

55 BEGIN LISTEN-IN - This command is used by the Central Station to initiate listen-in.

NOTE: All 3 microphone zones are initially active when listen-in begins. Use tone command 4 options to select mic zones.

- 1 TALK - Toggles (turns on) Output 1 speakers allowing you to talk to the premises.
- 2 LISTEN - Toggles (turns off) Output 1 speakers allowing you to listen.
- 3 MAX. SENSITIVITY - Raises the microphone gain to maximum sensitivity.
- 4 MICROPHONE SELECT -
 - 40 Selects ALL microphones
 - 41 Selects Microphone Zn 1
 - 42 Selects Microphone Zn 2
 - 43 Selects Microphone Zn 3
- 5 - [future use]
- 6 LOW SENSITIVITY - Lowers the microphone gain to minimum sensitivity.
- 7 EXTEND TIME - Restarts 3 minute listen-in.
- 8 TERMINATE FOR NOW - Ends the listen-in session but allows callback restart within 1 to 60 seconds (programmable). Control will answer on first ring during this time.
- 9 9 TERMINATE SESSION - Ends the listen-in session without any callback allowed.
- 0 - [future use]
- * CANCEL last key-press (undo)
- # - [future use]

Operation of the two way listen-in feature is affected by the following installer programming options:

- Menu 05-Zone Definitions, Option 06 "Enable Listen-in" must be enabled "Yes" for any triggering zone(s).
- Menu 07-Global System Definitions:
Option G31 "2 Way Listen-in" must be enabled "Yes".
Option G32 "2 Way Callback Time" is a timer value which may be set to allow time for the CS to callback and initiate a listen-in session after dialer hangup.

M1EZ8 Two Way Listen-in Interface ELK-M1EZ8TWI

APPLICATION:

The ELK-M1EZ8TWI Interface allows microphones to be connected to the ELK-M1EZ8 for two way voice verification and listen-in. It features 3 separate microphone zones with up to 4 microphones per zone. Programming options and operation procedures are already built into the M1EZ8 control.

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M1EZ8 Two Way Listen-in Interface ELK-M1EZ8TWI



FEATURES:

- Adds Listen-in Microphones to the M1EZ8
- Adds Amplified Talk-back Speaker Output with Adjustable Volume Control
- Powers Microphones and Performs Switching
- Provides 3 Separate Microphone Zones
- Each Listen-in Zone Can Have Up to 4 Mics

SPECIFICATIONS:

- Requires ELK-M1TWM or M1TWS Microphones
- Operating Voltage: 12 Volts D.C.
- Speaker (Output) Load: 2 to 16 Ohms
- Current Draw: 50mA to 80mA (depending on load and volume setting)
- Housing Dimensions: 4.375" x 3.0" x 1.125"
- Circuit Board Dimensions: 3.5" x 2.75"

NOTE: Use of Two Way Listen-in may be unlawful or regulated by local or state law/or ordinances. It is the responsibility of the Installer to check before using this feature.

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Instructions Printed On Inside

INSTALLATION

The following equipment is required: ELK-M1EZ8TWI Interface, 8 Conductor J7 Cable (included), and at least 1 M1TWS Speaker/Microphone or M1TWM Microphone.

1. Mount the Interface near the M1EZ8 main board using either double sided tape or screws. The 8 conductor, 12" audio/power cable must be capable of reaching connector J7 on the upper right side of the M1EZ8 board.
2. Install at least one Microphone/Speaker (M1TWS) near the center of the building. Recommended wire is 22 to 24 gauge UTP (unshielded twisted pair) for the microphone, and 18 to 20 gauge for the speaker.
3. Connect the first microphone to the two terminals marked Mic 1. There are 3 microphone zones (inputs). During a listen-in session the operator can choose to listen to ALL zones or select a specific zone. See operation instructions. Each microphone zone is capable of handling up to 4 microphones.
4. Plug one end of the 12" audio/power cable into connector J1 on the M1EZ8TWI board. Connect the other end to connect J7 on the M1EZ8 board.
5. Connect one or more 8 Ohm speaker(s) to the SPKRS output terminals. These speaker(s) can only be used to for "talk back" during a two-way listen session. **NOTE: The maximum number of speakers is based on the total load (resistance/impedence). This Output should never be loaded below 2 Ohms total load. Typically that allows up to four 8 Ohm speakers to be connected in parallel. To minimize current draw multiple speakers may have to be series/parallel wired.**
6. Pre-adjust the volume control knob to a low initial setting.
7. Power up the control and conduct a listen-in test.

NOTE: Outputs 7, 8, and 9 automatically become 'internally' assigned as the triggers for microphone zones 1, 2, and 3 whenever the "Two Way Listen-in" option is enabled in the M1EZ8 Installer Programming. See Menu 07-Global System Definitions, option 31.

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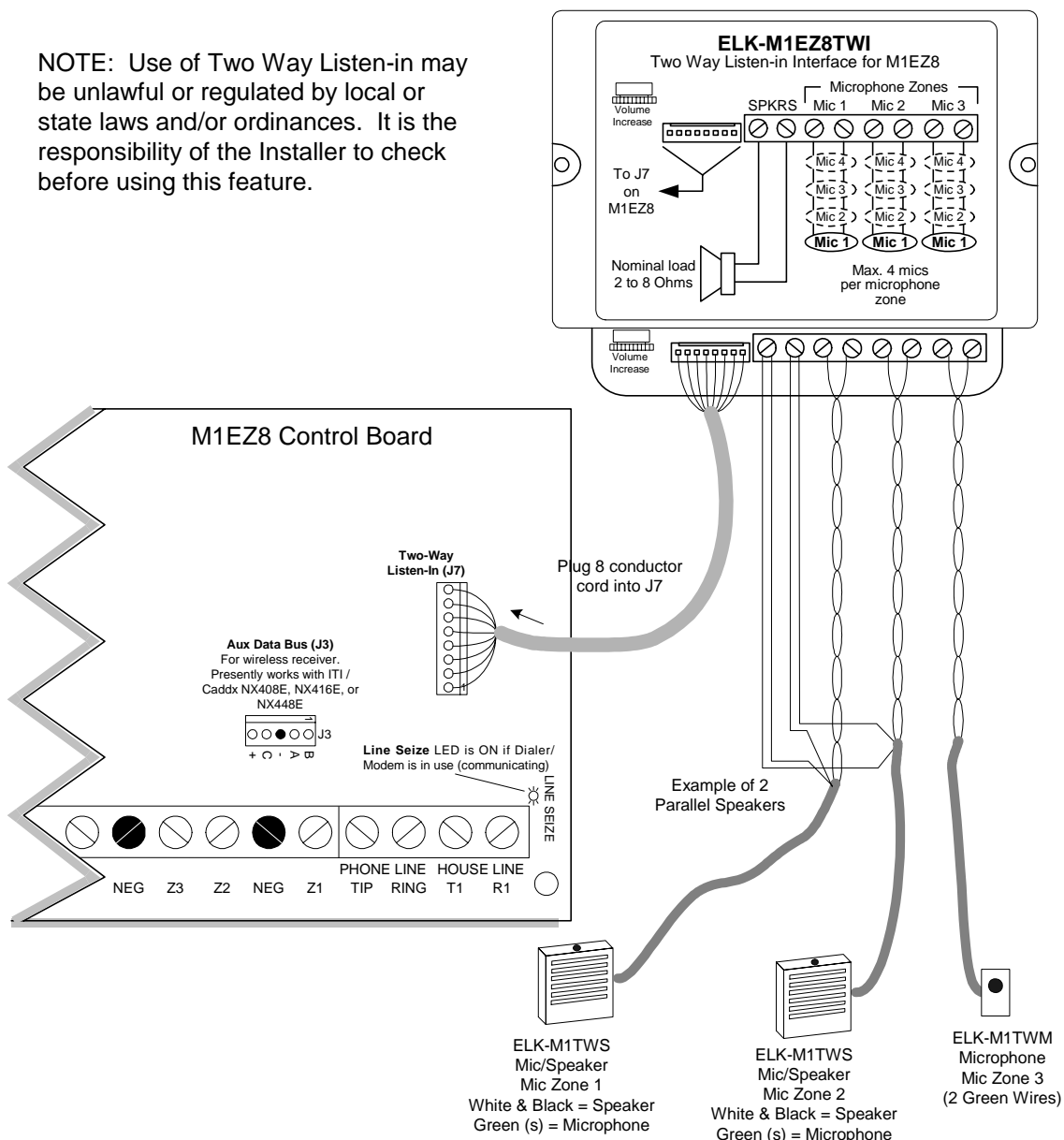


Diagram of ELK-M1EZ8TWI Listen-in with 2 Mic/Speaker Zones and 1 Microphone only Zone