

8 Channel Recordable Voice Annunciator Module MD-VOICE8

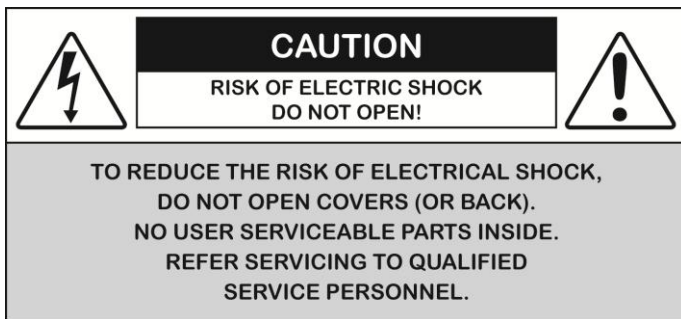


FEATURES

- 8 channels of recordable voice, sound or music
- Maximum record time is 8 minutes which may be divided between the number of channels desired
- Recordings are stored in non-volatile memory
- Each channel selectable for "+" or "-" triggering
- Each channel will accept a momentary or continuous trigger
- Continuous (repeat) playback or "one shot" settings
- Built-in condenser microphone for recording
- Adjustable speaker volume
- Powerful 24 watt audio amplifier for speakers
- Line-level output for amplifiers and paging systems
- PC sound card interface connector (interface sold separately)
- Mounted inside plastic enclosure



Please read the Manual before attempting to use this product.



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems).

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

CAUTION

1. Handle this product with care

Avoid any shock or bumping of the product. Improper handling could damage the product.

2. Requires a proper operating environment

This product should be mounted within an enclosure.

3. Check the power source voltage

The power source voltage should be within the specified range. (Product must meet the specifications).

4. Objects and liquid entry

Never push objects of any kind into this product as this may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill any kind of liquid on the product.

5. Servicing

Do not attempt to service this product by yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all service to qualified servicing personnel.

6. Damage requiring service

Unplug this product from the power source and refer service to qualified servicing personnel under the following conditions:

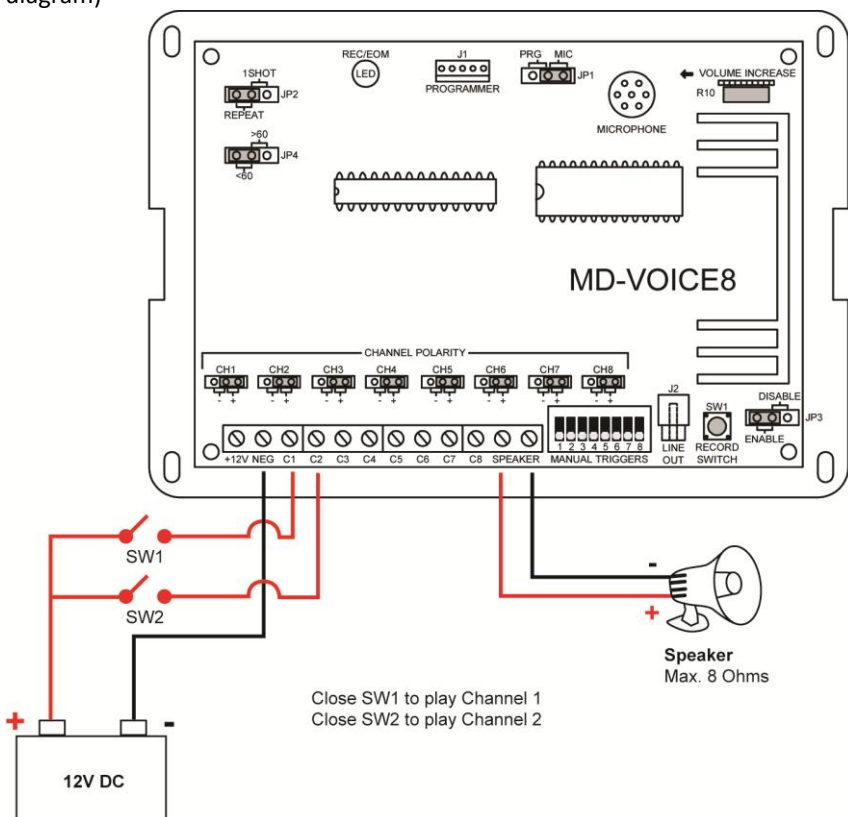
- When the power supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product has been dropped or the cabinet has been damaged.

APPLICATION DIAGRAMS

Basic Setup

Only a +12V DC power source is needed to play any of the 8 channels. In this configuration, the playback will start when a switch is activated and stop as soon as power is removed. Activating SW1 will play Channel 1 and SW2 will play Channel 2.

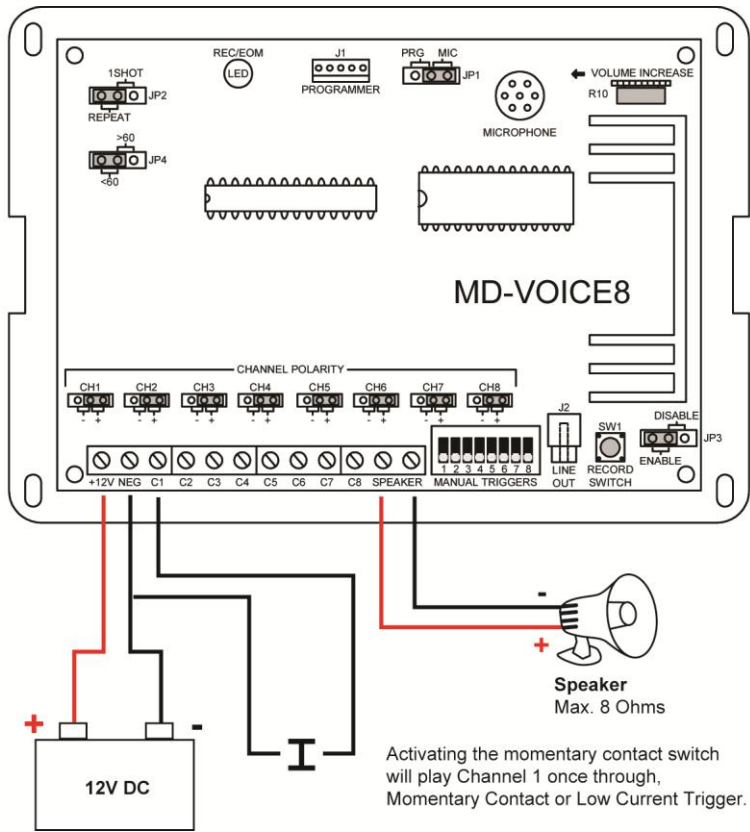
The power terminal (+12V) is not connected to +12V. Set the Channel Polarity jumpers to "+" for each channel that will be activated with positive voltage. (As shown in the diagram)



Momentary Contact or Low Current Trigger

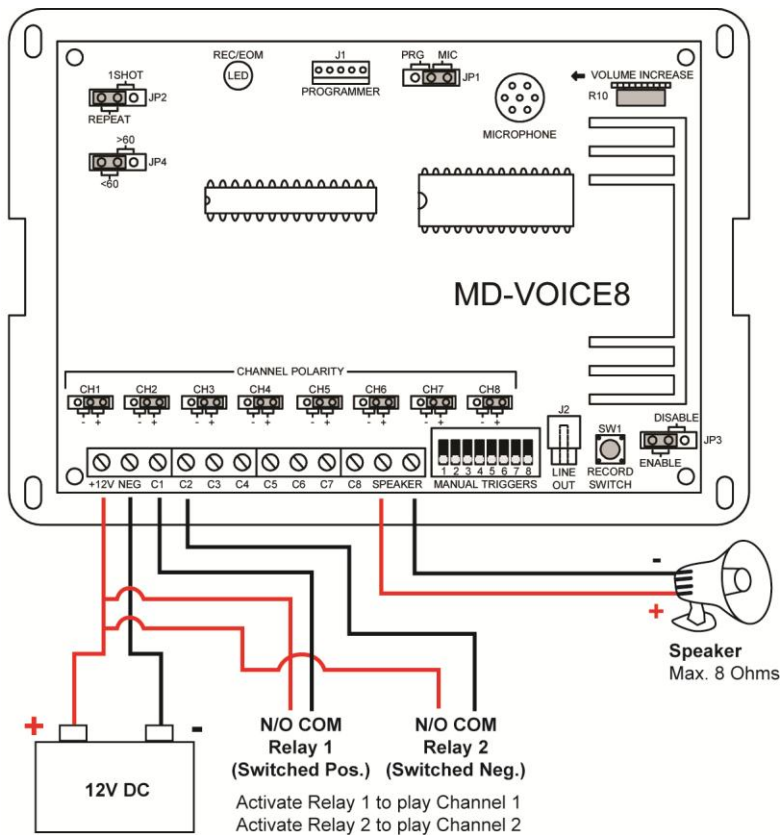
In this application a 12V DC power source is connected to the +12 and NEG inputs of the board. When a switch momentarily completes the circuit from NEG to CH1, Channel 1 will play all the way through, exactly one time.

Set the Channel Polarity jumpers to "+" for each channel that will be activated by that will be activated with positive voltage. (As shown in the diagram)



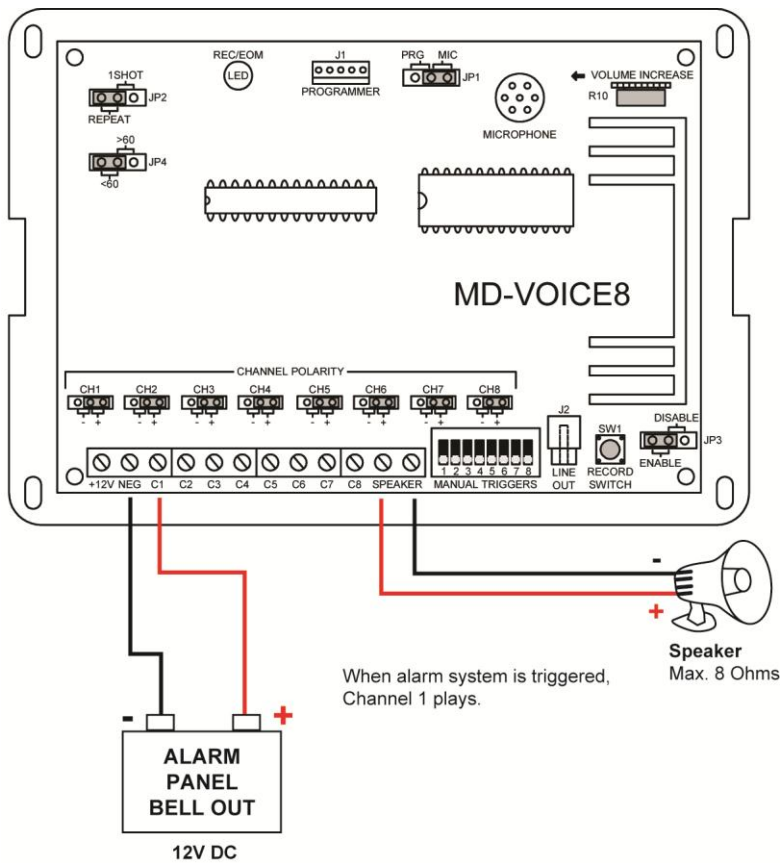
Basic Setup with External Relays

In this application, relays are connected to each channel. When relay 1 is activated, Channel 1 will play until the relay disengages, either once, if “One Shot” is selected by the jumper or continuously if “Repeat” is selected by the jumper. When relay 2 is activated, Channel 2 will play until the relay disengages.



Voice Output with Alarm System

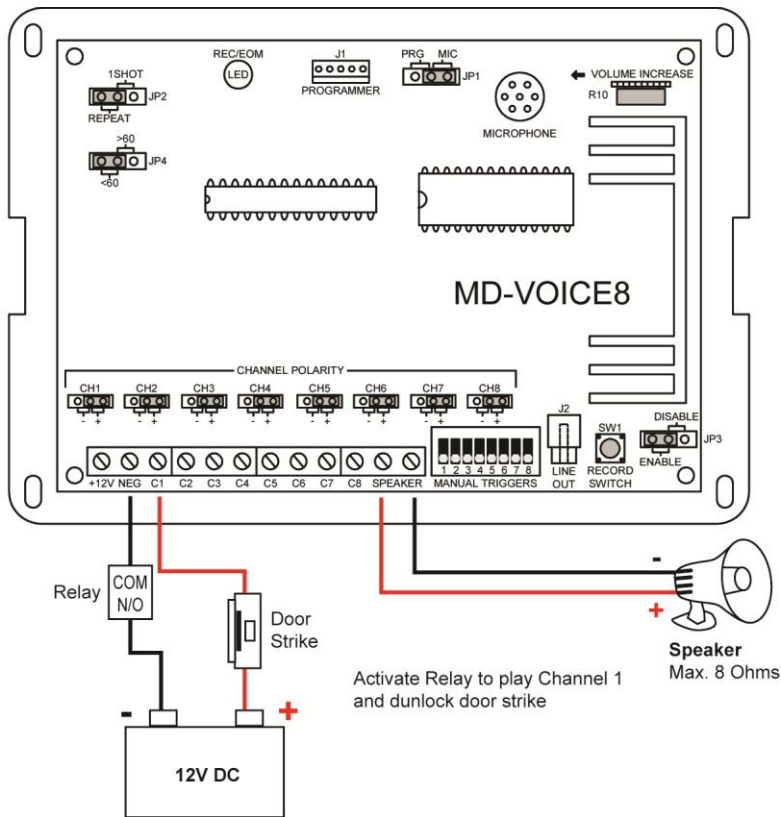
Using the 12V DC alarm output from an alarm system panel, this module will output a recorded message when the alarm system is triggered. Some alarm systems have multiple programmable alarm outputs, so a different channel can be played for different alarm states.



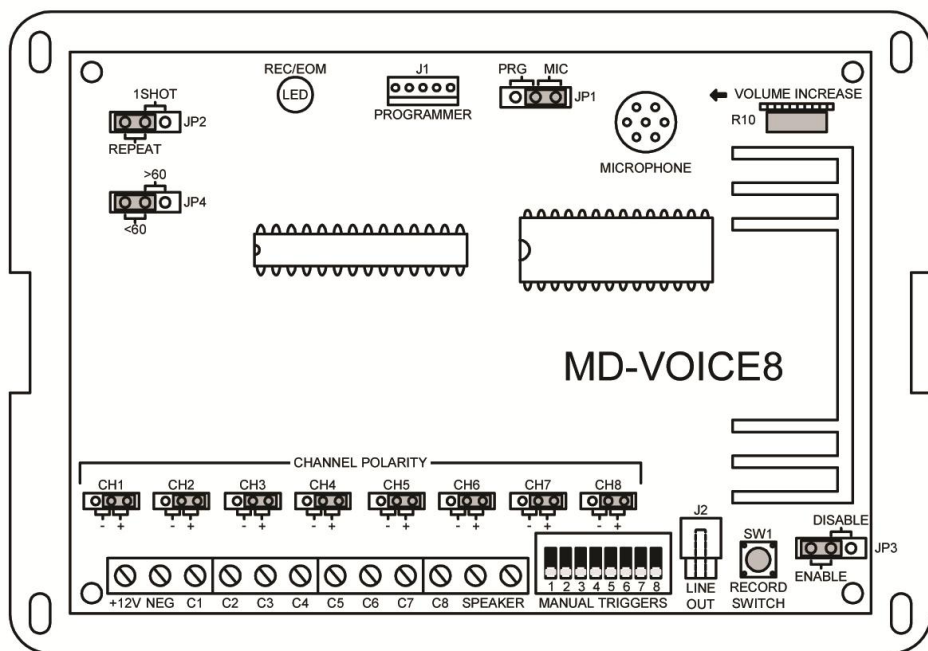
Voice Output with Electronic Door Release

In this application, the relay and power supply that are used to control an electronic (N/O) door strike can also be used to control the voice module.

When the relay is activated, the door will unlock and Channel 1 will play until the relay disengages.



OPERATION



All 8 channels of the **MD-VOICE8** are voice recordable and can hold up to 1 minute of message each. Two or more channels can be combined into longer messages up to the combined maximum of 8 minutes. The voice messages are stored in non-volatile memory and may be re-recorded as needed. Each channel may be activated by a positive (11~14V DC) or negative (pull-to-ground) trigger supplied from a control panel or other switch-controlled source. Channels are individually jumper selectable for positive or negative trigger input source. Voice messages are stored in non-volatile memory and may be re-recorded as needed.

Connections

[+12V] Connect to positive (+) side of a 12V DC power source. This input is required **ONLY** if the trigger sources for channels 1~8 are current limited to 30 mA or less, **OR** if Momentary or Negative Triggering is being used. Nominal operating range is 11~14V DC. (also needed for "Manual Triggers")

[- NEG] Connect to negative (-) of a 12V DC power source.

[C1]~thru~[C8] Channel Trigger Inputs.(8)

Positive (+) Activation

To activate (play) a channel from a positive voltage source, set its "Channel Polarity" jumper to "+" and apply 12 Volts DC between the NEG terminal and the channel input.

Negative (-) Activation

To activate (play) a channel from a Negative (pull to ground) source, connect the +12V and NEG terminals to a constant power source, set the "Channel Polarity" jumper to "-" and apply a switch to ground source to the channel input.
[Speaker] Connect to 8 Ohm speakers. (Max. 4 Ohm load)

Jumper Options

JP1)	MIC , for recording with the on board microphone. PRG , for recording with the ELK-129 computer interface.
JP2)	REPEAT , permits the voice channel to repeatedly play for as long as the channel input is activated. 1SHOT , restricts playback of a voice channel to only once per activation cycle. The channel activation must be removed and then re-applied before the message will be allowed to play again.
JP3)	ENABLE , enables the record pushbutton switch. DISABLE , disables the record pushbutton switch and prevents accidental recording.
JP4)	<60 , messages cannot overflow into the next channel and are limited to 60 seconds. REC led flashes when 60 secs is reached. >60 , enables recording of messages greater than 60 seconds with message recording overflowing into the next channel.

Activating the Voice Channels (Playback)

Continuous (maintained) trigger: Apply a positive (+) 11~14V DC to terminal C1 for Channel 1, terminal C2 for Channel 2, etc. The message will playback for as long as the power is applied, provided Jumper JP2 ("1SHOT - REPEAT") is in the REPEAT position.

Momentary trigger: Connecting terminals +12V and Neg to a constant (+) 11~14V DC power source allows channels to playback with a momentary trigger input voltage. Most current is drawn from the constant power source. Current draw from the input triggers will be approximately 30 mA. In the momentary trigger mode each message is played through to the end (one cycle).

Voice Record Time

If jumper JP4 is in the <60 position, the maximum record time is 60 seconds per channel. In the >60 position, messages longer than 60 seconds may be recorded by overflowing the message into the next available channel. When this occurs, the next "overflow" channel cannot be used as a recordable channel. Any attempt to record a message into that next channel will automatically overwrite and destroy the overflow part of the previous channel's message. Note: If the maximum record time is reached or exceeded, the red REC/EOM LED will start blinking to indicate that recording time has halted.

Examples:

C1 1:00, C2 1:00, C3 1:00, C4 1:00, C5 1:00, C6 1:00, C7 1:00, C8 1:00

C1 2:00, C2 (unavailable), C3 1:30, C4 (unavailable), C5 0:45, C6 3:00, C7 (unavailable), C8 (Unavailable)

C1 8:00, C2-C8 (unavailable)

C1 3:30, C2-C4 (unavailable) C5 4:00, C6-C8 (unavailable)

Volume and Current Adjust

Turning the Volume knob clockwise will increase the output volume. The louder the volume, the higher the current draw. The volume and current draw may be adjusted to match the current capability of the power source.

Options for Playback of the Voice Channels

The switches marked "Manual Triggers" are provided for programming and for user convenience where manual activation of the channel(s) may be desired. A constant power source must be connected to +12V and NEG terminals in order to use these switches.

Recording Voice Messages

Messages may be recorded from the on-board microphone, or from a PC with a sound card and an ELK-129 interface. To record from the onboard microphone place Jumper JP1 in the MIC position, JP2 in the REPEAT position, and JP3 in the RECORD position. If the message will be longer than 60 seconds, place JP4 in the >60 position. Activate the desired channel either by using the on-board DIP switches (requires power to be connected to +12V and NEG terminals) or by applying +12V DC to the desired input (C1, thru C8). The current message (if any) will start to play. While it is playing, press and hold the record switch SW1 and speak clearly into the on-board microphone. Note that the RECORD/EOM LED should light before you begin speaking. To minimize any noise, gently release SW1 after speaking. The new message will immediately be played. To stop the playback turn off the channel switch or remove the trigger voltage. To re-record the message, or to record another channel, repeat the above procedure.

To record with the ELK-129 sound card interface (sold separately) place Jumper JP1 in the PRG position, and JP2 in the REPEAT position. If the message will be longer than 60 seconds, place JP4 in the >60 position. Plug the ELK-129 five pin ribbon cable into Programmer Connector J1. Power the ELK-129 and move the SW1 slide switch to CH1 (this will provide power to the **MD-VOICE8**). Select the channel to record with the on-board DIP switch. Follow the instructions for the ELK-129, and play a prerecorded sound file.

SPECIFICATIONS

Model	MD-VOICE8
Operating Voltage	11~14V DC
Adjustable Current Draw	1/4~1.8 Amp (depending on volume setting and speaker load)
Low Current Triggers	3~14V DC @ 30mA
Max. Sound Level	122 dB @ 1m
Max. Speaker Loading	4 ohms
Enclosure Dimension	6.5(W) x 4.375(H) x 2(D) inches

* Specifications are subject to change without notice

LIMITED WARRANTY

LIMITED ONE (1) YEAR WARRANTY AND EXCLUSIONS

Manufacturer warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Manufacturer is free of defects in materials and workmanship under normal and proper use for one (1) year from the purchase date.

Manufacturer's only obligation is to correct such defects by repair or replacement, at its option, if within such one (1) year period the product is returned prepaid, with proof of purchase date, and a description of the problem. This warrant excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. **There are no other implied warranties of any kind, including merchantability and fitness or a particular purpose**, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness of or a particular purpose, is limited to one (1) year. **Manufacturer is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, loss sales or profits or delay or failure to perform this warranty obligation.** The remedies, provided therein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

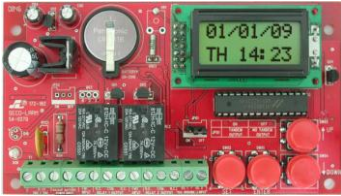
RELATED PRODUCTS

Timer Relay Module

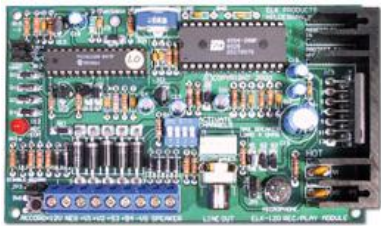
MD-TR



365 Days Schedule Timer
MD-T365



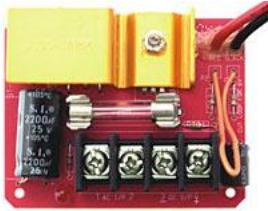
4 Channel Recordable Siren & Voice Annunciator Module
MD-SVOICE4



High Voltage Relay
MD-HVR



16.5V AC 1.5A Battery Power Charger
MD-BPC612



24V AC 7A Battery Power Charger
MD-BPC61224

