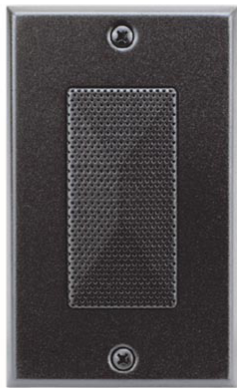




Avlelec AVL-DMR-KIT1 Digital Message Repeating System



Our Digital Message Repeating System (DMR) helps make your messages clear. Let visitors know important information at the door with built-in voice recording and music. With the DMR System, you can record one voice message up to 1:40, add background music that fades in and out, and play the message with music through a sleek surface-mount speaker at the door. Control volume, compression, and input/output level. Playback your full message using the START button, on a set timed interval, or using an external contact closure (triggered upon the use of a turnstile, gate, door, or contact affected).

MR201 Digital Message Repeating w/ Power Supply:

- Add custom voice prompts
- Playback your recorded message
- Music Quality Message Recording
- Add Background Music
- Works as a standalone unit
- Up to 1 Minute 40 Seconds of Digital Message Storage
- External/Remote Message Actuation
- Interval Timer to Repeat Message Playback
- Automatic Voice-Over or Music Ducking

Wall-Mount 2 Watt 8 ohm Loudspeaker:

- Acoustically Optimized Enclosure
- Fidelity Comparable to Larger Drivers
- Exceptional Audio Quality for Ultra-Compact Size
- Rich Presence and Detailed Clarity
- Hemispherical Dispersion Mounted In-Wall or Flat Surface
- Convex Aluminum Cone with Rubber Surround
- Neodymium Motor
- Standard Black Speaker, more color options are available



AVL-DMR Digital Message Repeater

- Repeating Single Message
- Music Quality Message Recording
- Up to 1.7 Minute Digital Message Storage
- External/Remote Message Actuation
- Interval Timer to Repeat Message Playback
- Background Music Input
- Automatic Voice-Over or Music Ducking

This is a part of the group of versatile products. The unique case can be directly screwed or bolted to cabinets or shelves. Optionally available rack-mounting accessories permit single or multiple module mounting.

APPLICATION: The DMR is a message repeater that permits electronic storage of a single recording up to one minute forty seconds in duration. This message may be played back manually using an external contact closure to ground or using the front-panel **START** button. The message may also be played back periodically using the interval timer included. A balanced line-level music input allows background music to be connected and the associated input potentiometer allows the installer to set the music level. When message playback is triggered, the music is faded down. At the conclusion of the message, the music level fades back up. A front-panel DIP switch sets the music to fade under the message (-20 dB nominal) or completely off (used for messages containing music). The module output level is a nominal +4 dBu balanced. The output level is indicated on an RDL dual-LED VU meter which is used to set the proper music and recording levels.

The message may be recorded once, at installation, then played back repeatedly. The message may be re-recorded at any time and is retained when power is removed from the module. The recording input is a standard -10 dBV consumer level unbalanced phono jack. An input level trimmer is provided to set the correct recording level which is indicated on the dual-LED meter. The front-panel **RECORD ENABLE** pushbutton erases the message in memory and enables recording, indicated by the **RECORD ENABLE** LED. The module begins recording when the **START** button is pushed and continues until the button is released. The **REC** LED is illuminated during recording. An integral audio compressor maintains a consistent average recording level over 20 dB of input level variation without significant audible effect on the signal dynamics.

Message playback is triggered when the front-panel **START** button is pressed with the FP-MR2 *not* in the **RECORD ENABLE** mode. Playback may also be activated by a remote momentary closure to ground on the **TR** terminal or by using the internal interval timer. The external trigger causes the message to play each time the terminal is grounded. A **DIS** (disable) terminal is provided to prevent the module from ducking the music audio and playing the message. As long as the **DIS** terminal is grounded, the module will not play. When released, the module will play the next time it is triggered either externally or internally. Grounding the **DIS** terminal while a message is playing will abort the playback. If the internal timer calls for message playback while the **DIS** terminal is grounded, the message will play upon release of the terminal. While the module is playing, the **PL** (playing) output terminal is held low. This terminal is used to control other equipment, and is particularly useful for disabling another FP-MR2 in installations where FP-MR2s are connected in series for multiple repeated announcements. At the conclusion of each playback, the **EM** (end of message) terminal pulses to ground for >100 mS. This terminal may be used to trigger other equipment or additional FP-MR2 module playback. The internal interval timer is controlled by front-panel DIP switches. The time between messages is selected in 30 second increments from 30 seconds to 7.5 minutes. The selected increment is multiplied x1 or x8 for a maximum time interval of 60 minutes.

The DMR operates from ground-referenced 24 Vdc. Use the Digital Message Repeater individually, or combine it with other products as part of a complete audio/video system.

AVL-DMR Digital Message Repeater Installation/Operation

RECORDING

- 1) CONNECT AUDIO INPUT
- 2) ADJUST 'RECORD INPUT' GAIN USING LEVEL METER (GREEN LED BRIGHT, RED FLASHING OCCASIONALLY)
- 3) PRESS 'RECORD ENABLE' BUTTON (HOLD 2 SECONDS) LED WILL FLASH WHILE ERASING OLD MESSAGE (IF ANY) WHEN LED GLOWS STEADY, UNIT IS READY TO RECORD
- 4) PRESS AND HOLD 'START' BUTTON WHILE RECORDING NOTE: 'REC' LED WILL BE ON DURING RECORDING
- 5) RELEASE 'START' BUTTON WHEN FINISHED; NOTE: 'REC' LED WILL GO OFF
- 6) IF DESIRED, LISTEN TO YOUR MESSAGE USING THE CONNECTED POWER AMPLIFIER AND SPEAKERS (OR RDL PT-AMG2) BY MOMENTARILY PUSHING THE START BUTTON; NOTE: 'PLAY' LED WILL BE ON DURING PLAYBACK

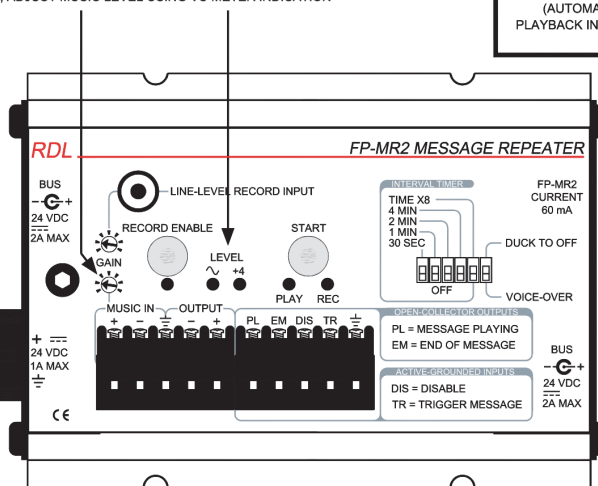
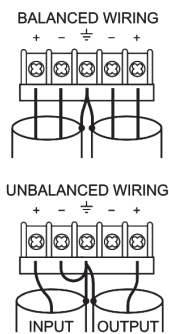
SETTING MUSIC LEVEL

WHILE A MESSAGE IS NOT PLAYING, ADJUST MUSIC LEVEL USING VU METER INDICATION

The maximum required input current is 2 A with the maximum load current connected to the power bus output. Module may be powered from a current limited dc power supply of up to 3 A.

OR

24 VDC
POWER
SOURCE



OPEN-COLLECTOR OUTPUTS MAY DRIVE INDICATORS OR TRIGGER OTHER EQUIPMENT OR ADDITIONAL MODULES. NOTE: IF 'EM' TERMINAL IS CONNECTED TO 'TR' TERMINAL, MODULE WILL RETRIGGER IN 'CONTINUOUS PLAY' MODE.

SIGNAL FROM
LINE-LEVEL
MUSIC
SOURCE

SIGNAL FEEDING
LINE-LEVEL
AMPLIFIER
INPUT

CLOSING SWITCH STARTS PLAYBACK (MOMENTARY CLOSURE REQUIRED) SWITCH MAY BE TOGGLE, MAGNETIC, PUSHBUTTON OR OPEN-COLLECTOR

NOTE: IF TIMER IS ON, CLOSING SWITCH WILL PLAY MESSAGE AND RESTART INTERVAL

CLOSING SWITCH PREVENTS PLAYBACK (CONTINUOUS CLOSURE REQUIRED) SWITCH MAY BE TOGGLE, MAGNETIC, PUSHBUTTON OR OPEN-COLLECTOR

OPEN-COLLECTOR PULSES AT END OF MESSAGE (TERMINAL GROUNDED FOR >100 mS)

OPEN-COLLECTOR IS ACTIVE (GROUNDED) WHILE MESSAGE IS PLAYING

SETTINGS

DUCKING

- MUSIC FADES UNDER MESSAGE DURING MESSAGE PLAYBACK (FOR VOICE-ONLY MESSAGES)
- MUSIC FADES COMPLETELY OFF DURING MESSAGE PLAYBACK (REQUIRED FOR MESSAGES WITH MUSIC)

INTERVAL TIMER

ANY TIME SWITCH TURNS TIMER ON

SET TIME SWITCHES TO TOTAL DESIRED INTERVAL BETWEEN AUTOMATIC MESSAGE PLAYBACK; SET 'X8' TO MULTIPLY TIME SWITCH SETTINGS BY 8

TIMER OFF (AUTOMATIC PLAYBACK INACTIVE)

Power to Additional Flat-Pak Modules, Total Current Not to Exceed 2 A or Available Supply Current if less than 2 A.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rule. These limits are designed to provide reasonable protection against harmful interference in a residential installation. The equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

TYPICAL PERFORMANCE

Music Input

Input: 50 kΩ balanced or unbalanced
Input Level (for +4 dBu out): -18 dBu bal. (-20 dBV unbal.) to +18 dBu bal. (+16 dBV unbal.)
Frequency Response: 30 Hz to 40 kHz (+/- 1 dB)
THD+N: < 0.05% (1 kHz)
Noise below +4 dBu: < -70 dB (unity gain)
CMRR: >70 dB (50 to 150 Hz)

Control

Control Inputs (2): TRIG and DISABLE, Pull to ground, 1 mA
Control Outputs (2): Open-collector @ 25 mA

Recording Input

Input: 10 kΩ unbalanced
Input Signal: -20 dBV to 0 dBV
Frequency Response: 80 Hz to 12 kHz (+/- 1.5 dB)
Noise below +4 dBu: < -65 dB

Output: 150 Ω balanced or 75 Ω unbalanced
Output Level: +4 dBu nominal

Power Requirement: 24 Vdc @ 60 mA, Ground-referenced
Dimensions: Width: 3.25 in. (8.26 cm); Length: 5.00 in. (12.70 cm); Height: 1.36 in. (3.46 cm)

2 Watt 8 Ohm Loudspeaker



- Acoustically Optimized Decora Enclosure
- Fidelity Comparable to Larger Drivers
- Exceptional Audio Quality for Ultra-Compact Size
- Rich Presence and Detailed Clarity
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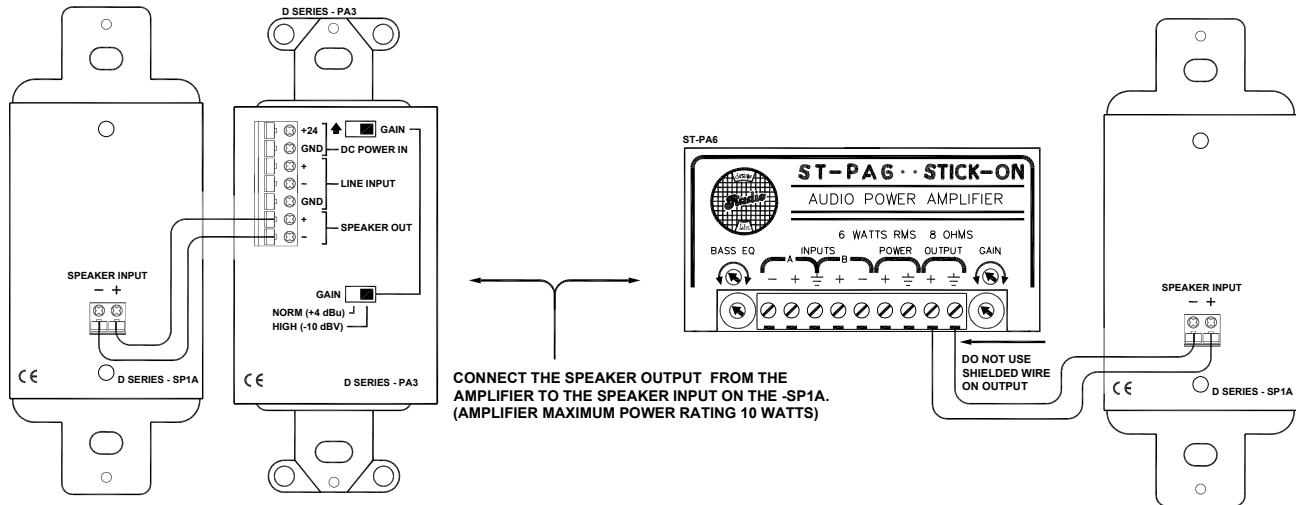
This part of the group of versatile wall-mounted products can be directly fastened in North American electrical boxes or can be fitted with International wall boxes.

APPLICATION: The compact 8 ohm loudspeaker that delivers rich, detailed sound in Decora compatible wall or chassis mounts. The driver is constructed of materials found in premium larger speakers. The unique steel enclosure provides full baffling in a tightly sealed rigid structure. This produces sonic presence within an extended frequency range expected from larger speakers. Internal filtering rolls off out-of-band frequencies to reduce distortion and increase peak power capability. Dispersion covers a hemispherical area of nearly 180 degrees with the speaker mounted in a wall.

The input is connected through a 2-position detachable terminal block on the rear panel. Operates with a continuous audio input up to 2 watts, making it suited to be driven by speech or music content from amplifiers with a maximum rated power of up to 10 W. Models are available with grills in black, white, gray or stainless steel.

2 Watt 8 Ohm Loudspeaker

Installation/Operation



TYPICAL PERFORMANCE

Input Power: 2 W RMS (modulation peaks limited to 10 W)
 Input Connection: Detachable terminal block (14 to 24 AWG)
 Impedance: 8 Ohms (nominal)
 Frequency Range: 150 Hz to 20 kHz, nominal
 Sensitivity: 78 dB (1 W, 1m nominal)
 Enclosure: Powdercoated steel
 Grill: Formed perforated steel
 Ambient Operating Environment: 0° C to 60 C
 Dimensions: Height: 4.1 in. (10.4 cm); Depth: 2.07 in. (5.26 cm) (over all with terminal block); Width: 1.72 in. (4.37 cm)
 Mounting: Mounts in US electrical box, international wall boxes WB-, surface mount boxes SMB- or desktop chassis' DC- available separately. Cover plate available separately.
 Mounting Box Minimum Depth: 2 in. (5.08 cm)

