

USER GUIDE

DM Engineering Studio Hotline
Phone Flasher and Door Announcer

Version 1.1

DM Engineering
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Overview:

The “Studio HOT LINE” is a Phone Flasher that is specifically designed to address the needs of the broadcaster. It incorporates many of the features that heretofore required several different devices to notify studio personnel of ringing phones and people at the door ringing the bell.

Features include:

- Microprocessor based circuitry for ultimate reliability and no “lock-ups”
- Multiple Ultra-Brite LED’s used for indicators, no bulbs to fail or replace
- Distinctive color visual indicators for both phone and door indication
- Distinctive audible signals for both phone and door indication
- 3 position audible control switch; OFF/LOW/HIGH
- Remotely mutable control for audible signals; contact closure or TTL low to mute
- Door input indicator and audible control by contact closure or TTL low to activate
- Distinctive DC output voltages for driving the DME Solid State Relay Pack or customers own SSR for turning on high wattage incandescent lamps for both phone and door indication
- Terminal block with screw connections are used for external I/O control for ease of wiring
- Small size, 5.75 x 2.6 x 1.1 You can mount it almost anywhere with screws or supplied Velcro

Operation:

1. The Studio Hot Line is an indicating device for either telephone ringing or door announcing. Upon connection to the supplied power supply, a normal telco line (one that supplies ringing voltage of at least 70VAC, 20-60Hz) the unit will indicate by flashing multiple yellow ultra-brite LED’s and a distinctive audible “ring” pattern that may be turned off or set to low or high volume.
2. The door announcer input uses either a contact closure or a TTL low to activate multiple ultra-brite red LED’s and a distinctive “ding-dong” ring pattern. As is with the phone audible, this audible is controlled by the common off-low-high switch and external mute control.
3. External incandescent lamps may be operated using the SSR output of the Hot Line. The output is a current limited 5VDC drive voltage that follows the pattern of the LED’s and is compatible with the DME Studio Solid State Relay Pack or most SSR’s available in the marketplace.

Installation:

1. Connect the DC input line from the power supply to the 9-12VDC connector on the Hot Line. Note: Polarity is not a factor as the unit is designed with Polarity Guard circuitry. It will even accept 9-15VAC!
2. Connect the power supply to any available AC receptacle.
3. Connect the RJ11 modular connector to the telephone jack.

4. Connect the "Door" input to a door bell button or wireless door bell receiver that has been modified to give a TTL low when rung. The left-most terminal is positive polarity for TTL applications. (Do not connect any foreign voltage to the "Door" terminals or damage will result to the unit!)
5. Connect the "Mute" input to a set of normally open contacts on your Studio Slave Relay Pack or competitive product. The "Mute" input may also be activated by a TTL low, with the left-most terminal being positive. (Do not connect any foreign voltage to the "Mute" terminals or damage will result to the unit!)
6. If desired, connect the SSR output drive voltage to your Solid State Relay Pack or other SSR. The left-most terminal is positive polarity as marked.
7. The unit may be hung on the wall using the provided screws or the Velcro hook & loop fastener materials provided. The mounting hole pattern on the rear of the enclosure is 4 inches center to center.

Warranty Information:

The DM Engineering Studio Hot Line is warranted for a period of one year from the date of purchase. This warranty covers materials and workmanship only. Any misapplication, physical or electrical damage from outside sources or by the customer is not covered. The customer must pay shipping costs to the factory, and DME will pay shipping costs to return the warranted equipment to the customer. Any priority shipping costs are to be the responsibility of the customer as ground service is standard. Please contact the factory for an RMA number prior to any returns. Items returned without an RMA may be sent back to the customer unopened.

Technical Support

If you have questions, experience difficulties with the product or require further information please contact DME at: 805-987-7881, toll free 800-249-0487, or E-mail technical support at: info@dmengineering.com, or visit www.DMEngineering.com for the latest User Guide.

Specifications:

Case dimensions: 2.6" wide X 5.5" long X 1.1" high
Case material and color: ABS plastic, grey
DC input connection method: 5.5 x 2.5mm coaxial connector
DC input requirement: 9-12VDC @ 300ma maximum.
AC input operating voltage: 120 VAC
Ring Voltage Requirement: 70-140VAC, 20-60Hz
Solid State Relay Drive Voltage: 5VDC current limited by 100 ohms
Mute and Door input: Contact closure or TTL low
Led indicators: Ultra-brite wide angle adjusted for maximum viewing angle
Audible adjustment: Switch selectable off-low-high
Power Cord Length: approx. 6 ft. total
Telephone Cord Length: approx. 7 ft. total
Mounting: Any surface that the customer desires
Operating temperature: 32 to 120F
Humidity: 0 to 95% non-condensing
Shipping Weight: 2 lbs. (approximate)