



Quick Start Guide

MS-1 *SENSE
MICROPHONE*



Before You Begin

What Ships in the Box

- An MS-1 hardware device.
- A white louvered faceplate.
- Screws (x2) to secure the faceplate.
- Screws (x2) to secure MS-1 assembly
- A low-voltage old work wall box.
- This Quick Start Guide.

What You Need to Provide

- A compatible Symetrix DSP device.
- Shielded (microphone) cable.

Getting Help

If you have questions beyond the scope of the help module, contact our Customer Support Group in the following ways:

Tel: +1 (425) 778-7728
8:00 am to 4:30 pm
Monday through Friday,
Pacific Time

Web: <http://www.SymetrixAudio.com>


About Symetrix



For over three decades, sound system designers, broadcasters and sound engineers have relied upon the performance, value and reliability of the Symetrix suite of audio routing and processing products.

Symetrix continues to set the benchmark in sound quality, and user-friendly control interfaces, while providing legendary reliability hand in hand with our commitment to non-stop innovation.





You'll love the ease of doing business with our incredible team of audio and business professionals, who excel in their commitment to serve our customers at the highest level from start to finish, again and again.

Important Safety Instructions.

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water. This apparatus shall not be exposed to dripping or splashing.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install only in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 This apparatus shall be connected to a mains socket outlet with a protective earthing connection. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer.
- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
 
- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug cord is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE		
AVIS: RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR		

SEE OWNERS MANUAL. VOIR CAHIER D'INSTRUCTIONS.
No user serviceable parts inside. Refer servicing to qualified service personnel.
Il ne se trouve à l'intérieur aucune pièce pouvant être réparée l'utilisateur.
S'adresser à un réparateur compétent.

-  **The lightning flash** with arrowhead symbol within an equilateral triangle is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product (i.e. this Quick Start Guide).
-  **CAUTION:** To prevent electric shock, do not use the polarized plug supplied with the unit with any extension cord, receptacle, or other outlet unless the prongs can be fully inserted.
-  **Power Source:** This Symetrix hardware is powered by phantom power supplied by its host device. Ensure that the host device is capable of providing 12-52 VDC @ 4 mA. Use only the cabling and connector specified for the product and your operating locale. A protective ground connection, by way of the grounding conductor in the power cord, is essential for safe operation. The appliance inlet and coupler shall remain readily operable once the apparatus has been installed.
-  **User Serviceable Parts:** There are no user serviceable parts inside this Symetrix product. In case of failure, customers inside the U.S. should refer all servicing to the Symetrix factory. Customers outside the U.S. should refer all servicing to an authorized Symetrix distributor. Distributor contact information is available online at: <http://www.SymetrixAudio.com>.

Introduction

The MS-1 Sense Microphone Wall Panel from Symetrix is a panel mounted microphone used with Symetrix products which feature SPL Computer functions.

The MS-1 provides an accurate decibel reading of the zone where it is installed, monitoring fluctuating volume levels, so that the SPL Computer equipped hardware can adjust the audio emitted into the zone.

The MS-1 can be used with SymNet and Integrator Series products that feature SPL Computer functions, such as the SPL Computer 371, Deuce 722, Zone Mix 760, and the entire SymNet line. It mounts into walls or ceilings with a single gang US electrical box and fits easily into new and old construction. A louvered white metal plate offers excellent protection while blending in with most décor.

Features:

- Panel mounted microphone used with Symetrix products which feature SPL Computer functions. Example: Automatic ambient noise compensation for zones within a restaurant, casino, retail environment or theme park.
- Covers frequency range between 80 Hz – 15 KHz.
- Single electret condenser element with internal LED indication of phantom power.
- Mounts in a single gang US electrical box.

Installing the Symetrix MS-1

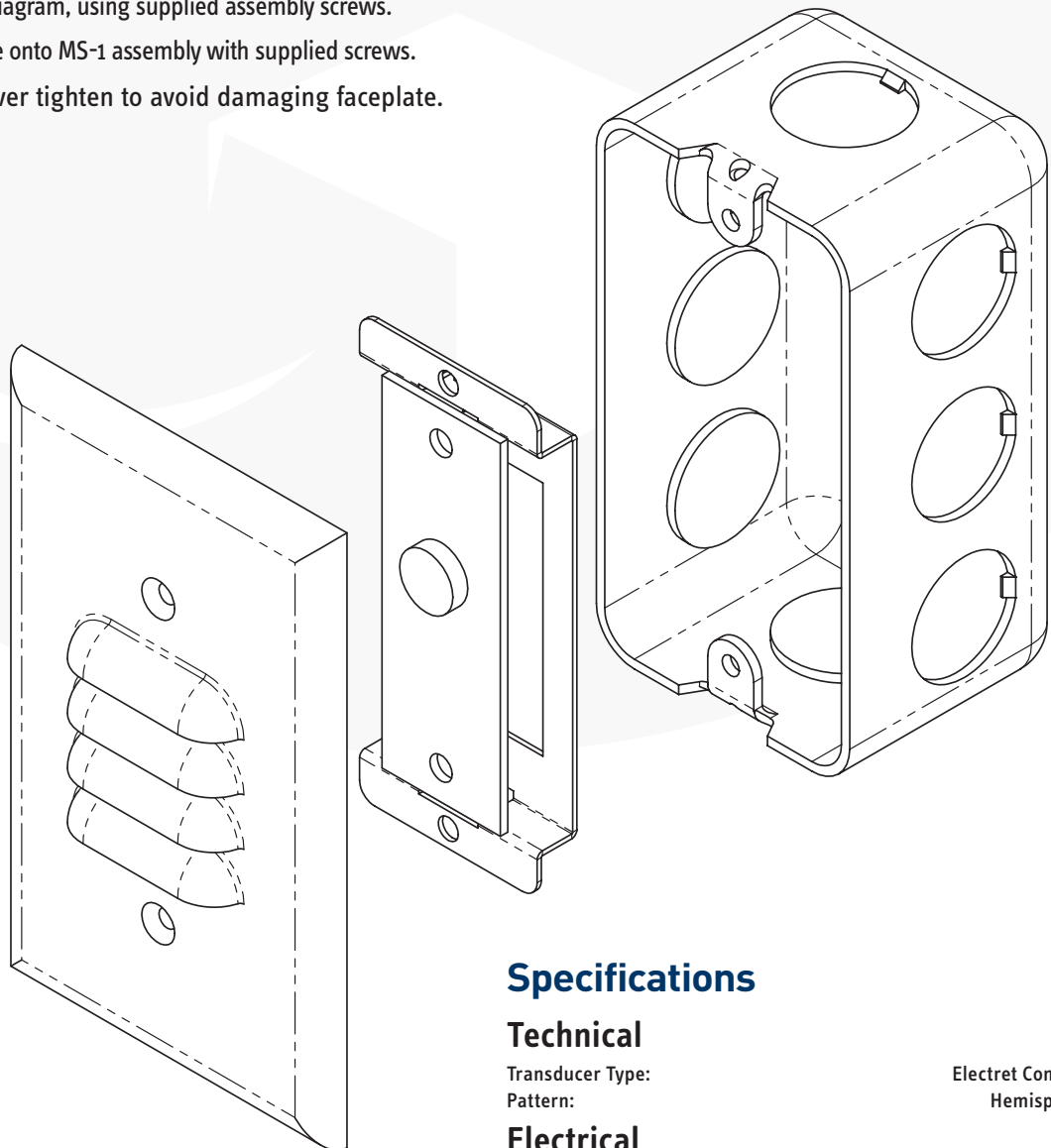
Install the MS-1 using the following steps:

- Mount the wall box into the wall.
- Once your microphone cable is routed through the wall box, insert the cable leads into the MS-1 at appropriate positive (+), negative (-) and ground (GND) terminals as indicated on the circuit board, then tighten the cable leads.
- Attach MS-1 circuit board assembly to wall box, oriented as shown in the diagram, using supplied assembly screws.
- Install faceplate onto MS-1 assembly with supplied screws.

NOTE: Do not over tighten to avoid damaging faceplate.

Parts included in the MS-1 wall panel kit:

- MS-1 circuit board assembly
- MS-1 faceplate
- Stand-off screws (x2)
- Faceplate screws (x2)
- Single gang low-voltage old work wall box



Specifications

Technical

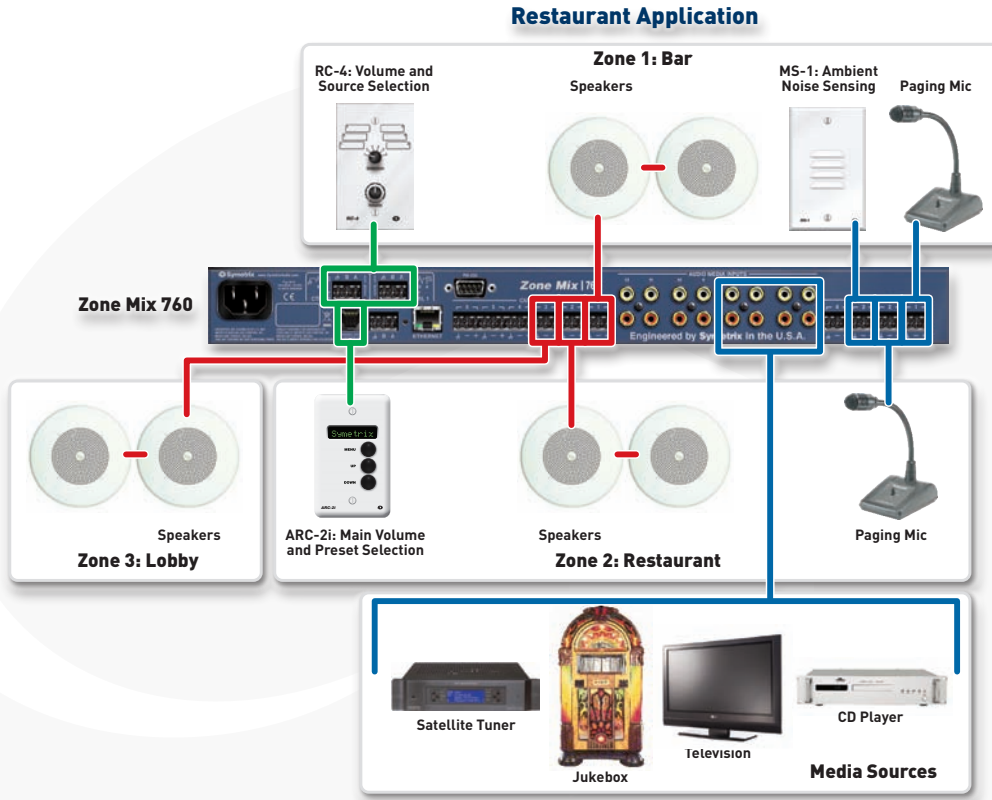
Transducer Type:
Pattern:

Electret Condenser
Hemispherical

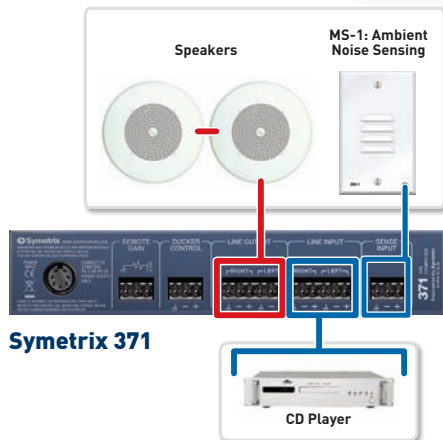
Electrical

Phantom Power Requirements: 12 VDC - 52 VDC phantom power, 4 mA

Sample System Diagram: Integrator Series Restaurant Application



Sample System Diagram: 371 SPL Computer Application



The Symetrix Limited Warranty

Symetrix, Inc. expressly warrants that the product will be free from defects in material and workmanship for two (2) years from the date the product is shipped from the factory. Symetrix's obligations under this warranty will be limited to repairing or replacing, at Symetrix's option, the part or parts of the product which prove defective in material or workmanship within two (2) years from the date the product is shipped from the factory, provided that the Buyer gives Symetrix prompt notice of any defect or failure and satisfactory proof thereof. Products may be returned by Buyer only after a Return Authorization number (RA) has been obtained from Symetrix. Buyer will prepay all freight charges to return the product to the Symetrix factory. Symetrix reserves the right to inspect any products which may be the subject of any warranty claim before repair or replacement is carried out. Symetrix may, at its option, require proof of the original date of purchase (dated copy of original retail dealer's invoice). Final determination of warranty coverage lies solely with Symetrix. Products repaired under warranty will be returned freight prepaid via United Parcel Service by Symetrix, to any location within the Continental United States. Outside the Continental United States, products will be returned freight collect.

The foregoing warranties are in lieu of all other warranties, whether oral, written, express, implied or statutory. Symetrix, Inc. expressly disclaims any IMPLIED warranties, including fitness for a particular purpose or merchantability. Symetrix's warranty obligation and buyer's remedies hereunder are SOLELY and exclusively as stated herein.

This Symetrix product is designed and manufactured for use in professional and studio audio systems and is not intended for other usage. With respect to products purchased by consumers for personal, family, or household use, Symetrix expressly disclaims all implied warranties, including but not limited to warranties of merchantability and fitness for a particular purpose.

This limited warranty, with all terms, conditions and disclaimers set forth herein, shall extend to the original purchaser and anyone who purchases the product within the specified warranty period.

Symetrix does not authorize any third party, including any dealer or sales representative, to assume any liability or make any additional warranties or representation regarding this product information on behalf of Symetrix.

This limited warranty gives the buyer certain rights. You may have additional rights provided by applicable law.

Note: Some Symetrix products contain embedded software and may also be accompanied by control software intended to be run on a personal computer. Said software is specifically excluded from this warranty.

Limitation of Liability

The total liability of Symetrix on any claim, whether in contract, tort (including negligence) or otherwise arising out of, connected with, or resulting from the manufacture, sale, delivery, resale, repair, replacement or use of any product will not exceed the price allocatable to the product or any part thereof which gives rise to the claim. In no event will Symetrix be liable for any incidental or consequential damages

including but not limited to damage for loss of revenue, cost of capital, claims of customers for service interruptions or failure to supply, and costs and expenses incurred in connection with labor, overhead, transportation, installation or removal of products, substitute facilities or supply houses.

Servicing Your Symetrix Product

If you have determined that your Symetrix product requires repair services and you live outside of the United States please contact your local Symetrix dealer or distributor for instructions on how to obtain service. If you reside in the U.S. then proceed as follows.

Return authorization

At the Symetrix factory, Symetrix will perform in-warranty or out-of-warranty service on any product it has manufactured for a period of three (3) years from date of discontinued manufacture.

Before sending anything to Symetrix, please contact our Customer Service Department for a return authorization (RA) number. The telephone number is +1 (425) 778-7728. Additionally, support is available via the web site: <http://www.SymetrixAudio.com>.

In-warranty repairs

To get your Symetrix product repaired under the terms of the warranty:

1. Call us for an RA number (have the serial number, shipping and contact information and description of the problem ready).
2. Pack the unit in its original packaging materials.
3. Include your name, address, daytime telephone number, and a brief statement of the problem.
4. Write the RA number on the **outside** of the box.
5. Ship the unit to Symetrix, freight prepaid. We do not accept freight collect shipments.

Just do these five things, and repairs made in-warranty will cost you only one way freight charges. We'll pay the return freight.

If you don't have the factory packaging materials, we recommend using an oversize box. Wrap the unit in a plastic bag, surround it with bubble-wrap, and place it in the box surrounded by Styrofoam peanuts. We won't return the unit in anything but Symetrix packaging for which we will have to charge you. If the problem is due to operator misuse or error, you will have to pay for both parts and labor. In any event, if there are charges for the repair, you will pay for the return freight. All charges will be COD unless you have made other arrangements (prepaid, Visa or Mastercard).

Out-of-warranty repairs

If the warranty period has passed, you'll be billed for all necessary parts, labor, packaging materials, and freight charges. Please remember, you must call for an RA number before sending the unit to Symetrix.



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Engineered by Symetrix™

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