

Janus Elevator Products Inc.

“Sound Innovation, On Call”

MRI – MACHINE ROOM INTERCOM USER’S MANUAL



MRI



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Overview

The MRI-1 is an easy upgrade solution to provide two-way voice communications between the machine room and the elevator car using an existing ADA elevator phone.

The MRI-1 installs in the machine room, using the existing telephone line that is connected to the ADA elevator phone. The telephone line is cut and the MRI is connected in series to that Line using the supplied phone jacks. The Incoming phone jack connects to C.O. or PBX phone line and the Outgoing phone jack connects to the ADA elevator phone.

The MRI meets requirements for ASME A17.1a 2001 addenda to ASME A17.1-2000 Safety Code for Elevators and Escalators.

Code: 2.27.1.3 Machine Room Communications:

A means of two-way communications between the car and the machine room shall be provided as required by 2.26.1.5.10(c).

Installation

1. The Machine room intercom requires two pair of wires, one for the ADA elevator phone and one for the phone line. The MRI system requires 24VDC/0.5A to operate.

Note: Cabling can be inexpensive telephone communication cable, which is normally 20-22 gauge twisted pair. Through the travelling cable you will need a twisted shielded pair with the shield grounded at the elevator controller or a good earth ground. The shield needs to be connected throughout the entire run including any splices and should only be grounded at the controller end.

2. Install the MRI unit on the wall or flat surface with (4) 8-32 screws using the (4) holes on the sides of the unit. (See Figure 2)
3. Plug in the incoming phone line to the "Incoming" phone jack of the MRI unit. If you don't have a modular connector on your phone line wires, you need to open up the Incoming phone jack and connect the Incoming phone line to the Green and Red terminals of that jack. Close the jack when finished. (See Figure 1)
4. Plug in the ADA elevator phone to the "Outgoing" phone jack of the MRI unit. If you don't have a modular connector on your phone wires, you need to open up the "Outgoing" phone jack and connect the ADA elevator phone wires to the Green and Red terminals of that jack. Close the jack when finished. Plug in a single line touchtone phone (optional) to the jack of the MRI faceplate. (See Figure 1)
5. Mount the touchtone phone adjacent or close to the MRI unit using the keyholes on the back of that phone.

Operation

1. Press and hold the push-button on the MRI faceplate for at least three seconds.
2. The touchtone phone on the MRI faceplate and the Elevator phone will start ringing. Pickup the handset on the touchtone phone.
3. The LED on the MRI faceplate will start flashing and nothing will be heard through the touchtone phone. The flashing will continue at a faster rate for 4 seconds and then it will go out for 2 seconds. This will continue until the ADA elevator phone turns 'ON' automatically or someone actually answers the call.
4. When the ADA elevator phone has turned 'ON' you will have two-way communication.
5. The call will be terminated when you hang up the phone on the MRI unit or the elevator phone. The LED will start flashing again and then it will turn 'OFF'.
6. The MRI and the ADA elevator phone are now ready for normal operation.

Note: If the ADA elevator phone is being used while the MRI is trying to call the unit the ADA elevator phone will be disconnected from the phone line and automatically connected to the MRI unit.

Troubleshooting

1. If the MRI does not turn 'ON' make sure that the wall transformer is plugged into 110VAC outlet, and measure the voltage on the "POWER" connector inside the MRI unit. The voltage should read about 24-28VDC. The "POWER" connection is **not** polarity sensitive.
2. If the MRI turns 'ON' but does not call the ADA elevator phone: Check all your connections according diagram on Figure 1. Press the Button to make a call and measure the maximum AC voltage coming from the elevator port using a voltmeter.

Note: The normal ring voltage generated by the MRI unit is about 85-120VAC. USE CAUTION WHEN MEASURING RING VOLTAGE ON THE LINE.

3. If the ADA elevator phone does not call out: Check the voltage of the phone line on the "Telco" connector of the MRI unit. The same voltage should be shown on the "Elev." connector of the MRI.

Note: The normal phone line voltage is about 24-52VDC. There are cases that the voltage might drop bellow 24VDC if the phone line connection is located far away from the central office or an internal phone system is used.

4. If the ADA elevator phone (EMS-ADA phone) sounds low you can adjust the R13 (VOL.) potentiometer counter-clockwise to the max. If it's still low add a 9-volt battery to the battery lead of this phone and try again.

Notes: _____

Figure 1

MRI CONNECTION DIAGRAM

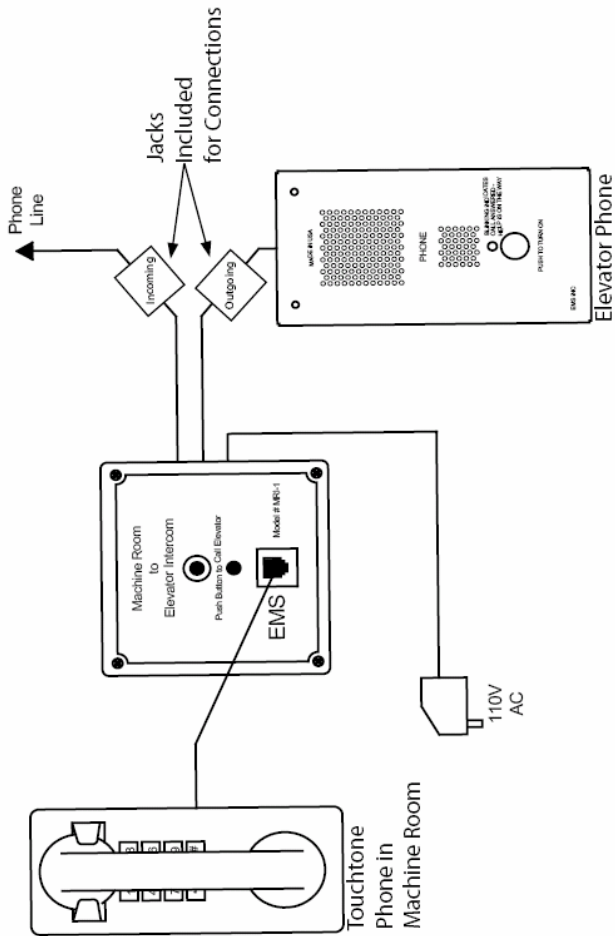
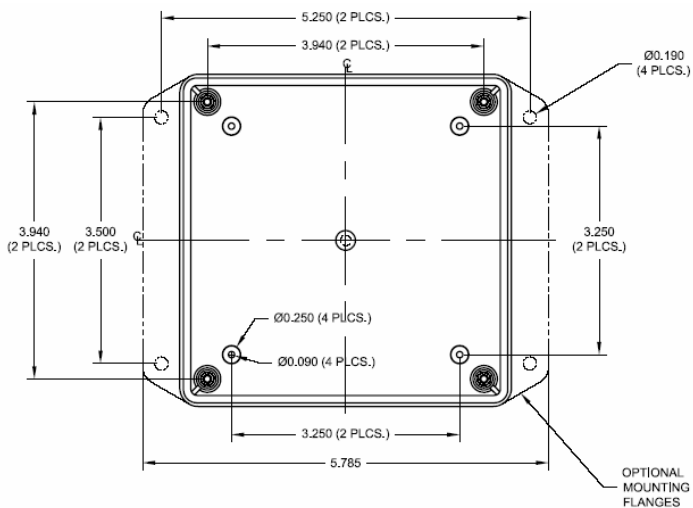


Figure 2

MRI MOUNTING DIAGRAM



Warranty Policy

Janus Elevator Products Inc. warrants its products to be free from defect in materials and workmanship under normal use and service for 24 months from date of purchase. Seller's obligation shall be limited to repairing or replacing, at its option, free of charge for materials or labor any product which proves defective in materials or workmanship under normal use and service. Janus shall not be responsible for any damage to the unit incurred during installation. Seller shall have no obligation under this Limited Warranty or otherwise if the product is altered or improperly repaired or serviced by anyone other than Janus factory service. For warranty service, contact Janus at 631-864-3699 or 800-527-9156.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. IN NO CASE SHALL SELLER BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, OR UPON ANY OTHER BASIS OF LIABILITY WHATSOEVER, EVEN IF THE LOSS IS CAUSED BY THE SELLER'S OWN NEGLIGENCE OR FAULT.

Return Policy

During installation, if a product does not appear to function properly the installer must call the **Janus Elevator Products** Technical Support Unit at (800) 527-9156, Monday through Friday. If the technician determines that the product is not functioning, an **RA** (Return Authorization) number will be issued, allowing the installer to return the product directly to **Janus Elevator Products** for repair, replacement or credit. Returns with no fault found, will result in a bench charge plus shipping costs. Returns without an **RA** number will result in a restocking charge of 25% or more plus shipping costs.

Need Technical Assistance?

Call 1-800-527-9156