



MRI MACHINE ROOM INTERCOM USER'S MANUAL



MRI

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N56 W24720 N. Corporate Circle • Sussex, WI 53089
800-527-9156 • www.januselevator.com

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Overview

The MRI 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 installs in the machine room, using the existing telephone line that is connected to the 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 elevator phone.

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

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 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) keyholes on the back 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 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 elevator phone wires to the Green and Red terminals of that jack. Close the jack when finished (see Figure 1).

Operation

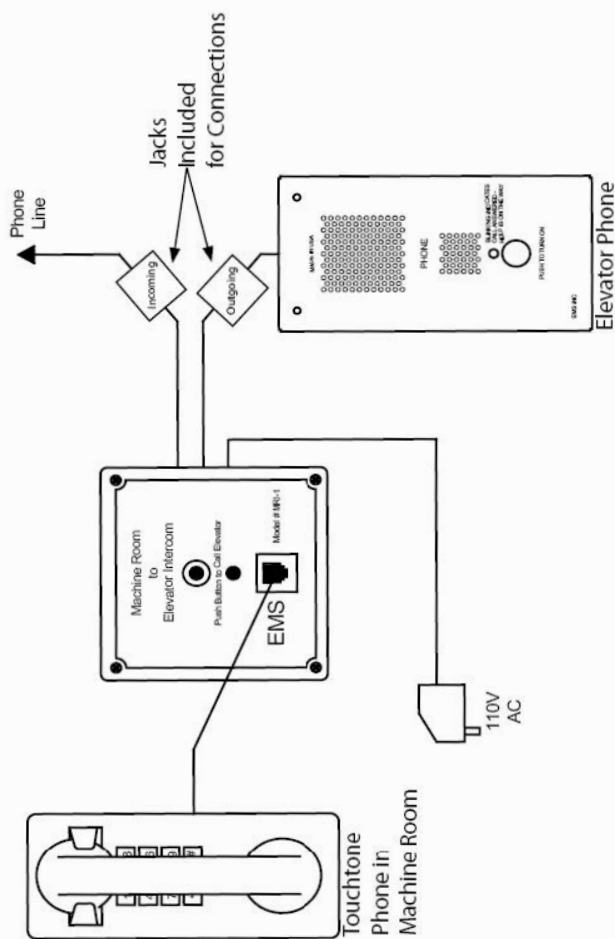
1. Press and hold the push button on the MRI faceplate for at least three seconds.
2. The phone on the MRI-1 faceplate and the elevator phone will start ringing. Pick up the handset on the phone.

3. The LED on the MRI faceplate will start flashing and nothing will be heard through the phone. The flashing will continue at a faster rate for 4 seconds and then it will stop for 2 seconds. This will continue until the elevator phone turns 'ON' automatically or someone answers the call.
4. When the 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 elevator phone are now ready for normal operation.
Note: If the elevator phone is being used while the MRI is trying to call the unit, the 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 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 elevator phone, check all your connections according diagram in 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 60-80VAC. **USE CAUTION WHEN MEASURING RING VOLTAGE ON THE LINE.**
3. If the 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 when the voltage might drop below 24VDC if the phone line connection is located far away from the central office or an internal phone system is used.
4. If the elevator phone (Janus EMS phone) sounds low, 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.

MRI Connection Diagram (Figure 1)



MRI Mounting Diagram (Figure 2)

