SIEMENS Fire Safety

Installation Instructions Model DMC-1 Digital Message Card

INTRODUCTION

The **SIEMENS** Model DMC-1 Digital Message card is a digital audio message unit for the MXLV System that provides digitized voice messages for EVAC and ALERT in place of tones. The DMC-1 has a library of factory recorded phrases which the user may configure to form messages using the CSG-M (AccuLINK). The user may also record custom phrases into the DMC-1 using a microphone or tape recorder.

NOTE: A phrase is the smallest voice unit which can be recorded or played. Multiple phrases can be linked together to create a message. One custom recorded phrase can be used as an entire message.

Up to two primary DMC-1 cards may be used in an MXLV system. Up to three additional DMC-1 mirror modules (DMC-1MRs) may be installed (one DMC-1 mirror module per one ACM-1 mirror module). DMC-1 and DMC-1MR cards are installed in the same way.

The DMC-1 continually supervises itself. In case of a problem, the module sends a trouble message to the MMB-1/2 and a separate backup system tone generator operates in its place.

The DMC-1 occupies a local M-NET network address. Set the address on switch S1. When installing a DMC-1 card, use the CSG-M configuration printout to locate the address of the card. Follow the switch setting instructions in the **INSTALLATION** section below to set the desired address. Configure the system using AccuLINK by choosing ACM-1 tone options DMC1 and/or DMC2.

For additional information on the Voice System, refer to the *MXL/MXLV Operation, Installation,* and *Maintenance Manual*, P/N 315-092036.

INSTALLATION

Remove all system power before installation, first battery and then AC. (To power up, connect the AC first and then the battery.)

1. Remove the card from its protective bag. Do not touch the gold edge of the board.

WARNING

The DMC-1 Digital Message Card has a 3V lithium battery installed for battery backup of static RAM memory (U5). This results in the DMC-1 Card being partially powered all the time. The DMC-1 must be handled with caution when it is removed from the protective package. Do not place the DMC-1 on conductive surfaces (metal, aluminum foil, etc.).

2. The DMC-1 has two configuration dipswitches, S1 and S2 (See Figure 1 for the location of S1 and S2). **Set the dipswitches before** installing the DMC-1 into the OMM-1.

NOTE:

To open a dipswitch, press down on the side of the dipswitch marked OPEN.

To close a dipswitch, press down on the side of the dipswitch opposite the side marked OPEN.

To open a slide switch, push the slide to the side opposite the side marked ON.

To close a slide switch, push the slide to the side marked ON.

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TABLE 1
NETWORK ADDRESS PROGRAMMING

000	87654321
001	V000000
002	X00000X
003	X0000X0
004	XOOOOXX
005	XOOOXOO
006 OOOOOXXO 070 OXOOOXXO 134 XOOOOXXO 198 XX 007 OOOOOXXX 071 OXOOXOOO 136 XOOOXXX 199 XX 008 OOOOXOOO 072 OXOOXOOO 136 XOOOXOOX 200 XX 010 OOOXXXO 074 OXOOXOX 138 XOOOXOX 201 XX 011 OOOOXXXO 075 OXOOXXXO 139 XOOOXXXX 203 XX 012 OOOOXXXO 076 OXOOXXXO 140 XOOOXXXX 205 XX 013 OOOXXXX 077 OXOOXXXX 142 XOOOXXXX 205 XX 014 OOOXXXX 078 OXOXXXXX 142 XOOOXXXX 206 XX 015 OOOXXXX 079 OXOXXXXX 143 XOOXXXXX 207 XX 016 OOXXOOOX 081 OXOXOOXX 144 XOOXOOXX 208 XX 018 <td< td=""><td>XOOOXOX</td></td<>	XOOOXOX
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	XXXOXXO
	XXXOXXX
	LEGAL
063 OOXXXXXX 127 OXXXXXXXX 191 XOXXXXXX 255 IL	LEGAL

O = OPEN (or OFF) X = CLOSED (or ON)

The DMC-1 takes up one of the 244 possible network addresses. Use switch S1 to set the MXL network address. Set this switch according to the address where the DMC-1 is installed in the MXL's network map. Refer to the CSG-M configuration printout for the address of the module and Table 1 for the switch settings of the DMC-1 network address.

- 3. Set the switches of dipswitch S2 to the OFF position.
- 4. Place jumper E1 in position 1 2.
- 5. Do **NOT** install the card in its edge connector until ALL OMM-1/2 field wiring is completed and checked for shorts, opens, and other faults.
- Find the card slot key provided in the installation kit with the DMC-1 board. Place the card slot key in the OMM-1/2 edge connector for the DMC-1 as shown in Figure 2. See

- Figure 3 for the exact location of the key for this module. This prevents installation of any other card type in the DMC-1 slot. Two other keys already installed in the OMM-1/2 prevent reverse installation of the card in the OMM-1/2 edge connectors. (See Figure 3.)
- 7. Place the card in its card edge connector correctly. The components on the board must face the 22-position terminal block where the wiring is terminated. Press the card firmly in place to be sure it is seated properly in the edge connector.

CAUTION

At all times handle all plug-in cards with extreme care. When inserting or removing a card, be sure the position of the card is kept at right angles to the OMM-1/2 board. Otherwise, the plug-in card can damage or displace other components.

FACTORY

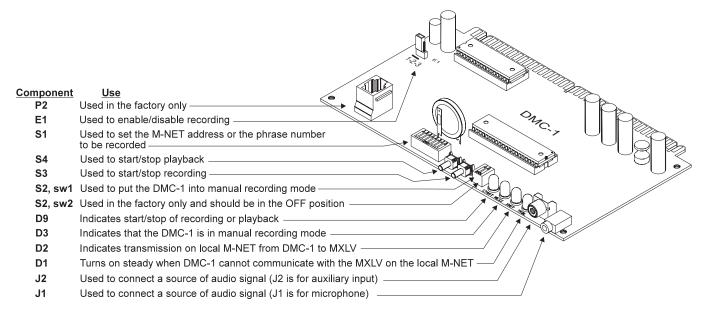
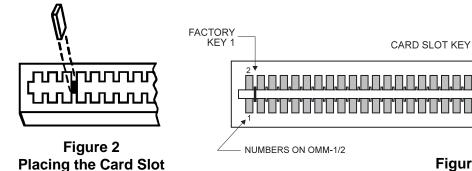


Figure 1
DMC-1 Module Board



Key in the OMM-1/2

Figure 3
Location of the User Key for the DMC-1

WIRING

When the DMC-1 Card is installed in an MXLV System, all required wiring is internal within the MXLV System enclosure.

Maximum wire size: 14 AWG Minimum wire size: 18 AWG

When one or two DMC-1 Cards are installed in the MXLV System, use shielded twisted pair for the audio output connections.

Connect up to two DMC-1 cards according to the following chart. Refer also to Figures 4 and 5.

DMC-1 Card	Connect with the following:	Connect to the following:
1	2-conductor shielded, twisted pair cable	TBM-2, TB2, (DMC1) terminals 1 and 2
2	2-conductor shielded, twisted pair cable	TBM-2, TB2, (DMC2) terminals 3 and 4

Do not wire power connections in the system installation because the DMC-1 is powered from the MXL System internal +5V through the OMM-1/2 module.

RECORDING OF CUSTOM PHRASES BY THE USER

For manual recording while the DMC-1 Card is installed in the MXLV System and the system is powered up and running:

 Before starting to record, verify that Switch S1 is set for the local M-NET network address (See Table 1). Also, refer to Figure 1 to familiarize yourself with the following components used for the manual recording of custom messages.

Component:	Use:
Jack J1	Connects a source of audio signal (microphone)
Jack J2	Connects a source of audio signal (auxiliary input)
Switch 1 of Dipswitch S2	Used to put the DMC-1 into manual recording mode

Component:	Use:	
Switch 2 of Dipswitch S2	Used in the factory only and should be set to the OFF position	
Switches 1-6 of Dipswitch S1	Used to set the phrase number to be recorded (62 phrases maximum) Refer to Table 2 to set the phrase number	
LED D3 (MESS)	Indicates that the DMC-1 is in manual recording mode	
LED D9 (START)	Indicates start/stop of recording or playback	
Dipswitch S3	Used to start/stop recording	
Dipswitch S4	Used to start/stop playback	
Jumper E1	Used to enable/disable recording	
Connector P2	Used in the factory only	

2. To start manual recording/playback:

 a. Change switch 1 of dipswitch S2 to the CLOSED (or ON) position; switch 2 of S2 should be in the OPEN (or OFF) position.

IMPORTANT NOTE

To insure proper communication between the DMC-1 card and the MXLV System, dipswitch S1 must be set for the local M-NET network address (See Table 1) each time switch 1 of dipswitch S2 is changed from the OPEN to CLOSED or from the CLOSED to OPEN position.

- b. The DMC-1 is now in the manual recording/playback state and communication with the MXLV System will stop. The MXLV will annunciate DMC-1 RECORD MODE and connect the DMC-1 output to the local speaker on the MMM-1.
- c. LED D3 lights to indicate the unit is in recording mode. The number of userrecorded phrases is indicated by blinking LED D3 (for example, the LED blinks twice and then pauses repeatedly to indicate phrase 2). When no phrase is recorded, LED D3 is ON steady.

TABLE 2 PHRASE NUMBER PROGRAMMING

- O = OPEN (or OFF) X = CLOSED (or ON)
- = SWITCH NOT USED

3. To enable recording:

- a. Move jumper E1 from position 1-2 to position 2-3.
- Insert the recorded audio signal supply into jack J1 or J2 (insert the microphone plug into jack J1). Use low impedance microphone P/N 500-095928 (DMC-REC Microphone Kit).

NOTE: The battery is not included in the DMC-REC Microphone kit.

When a tape recorder is used as the source of audio signal, use shielded cable with an RCA plug inserted into jack J2. Insert terminating plug into jack J1 (terminating plug is included in the DMC-REC Microphone Kit, P/N 500-095928).

- The tape recorder should have a low output impedance (500 ohms or less) with a nominal audio output signal level of 500mV RMS.
- Due to power supply noise, a battery powered tape recorder is recommended.
- The tape recorder must have a noise reduction feature (for example, *Dolby B* or other) to reduce noise created by magnetic tape or by the tape recorder itself.

In some installations of MXLV Systems, the level of electromagnetic field generated by power supply lines, digital communication lines, or other systems installed in close proximity can cause the recording of background noise. To avoid background noise during recording, it is recommended that the DMC-1 card is not part of the MXLV System (See Figure 5, DMC-1 Wiring Diagram Showing Benchtop Manual Recording Connections).

c. Set the phrase number on dipswitch S1 according to Table 2. Phrase numbers should start with phrase number 1 and sequentially increase as subsequent phrases are recorded. The next phrase number for recording can be any number between number 1 and one number higher than the last previously recorded phrase number. The last recorded phrase is indicated by the blink count of LED D3.

IT IS NOT POSSIBLE TO RERECORD A PHRASE ONCE ANOTHER PHRASE HAS BEEN RECORDED AFTER IT. For example, if the DMC-1 contains 10 phrases, it is not possible to rerecord only phrase 5. If you do rerecord phrase 5, then phrases 6, 7, 8, 9, and 10 will be erased and you will have to rerecord these phrases as well.

d. To start recording, press switch S3 once. LED D9 turns on to indicate recording. Pressing switch S3 again will stop recording and turn off LED D9.

IMPORTANT NOTE

After the recording is finished, move jumper E1 from position 2-3 to position 1-2. Jumper E1 must be set to position 1-2 because the power supply transition from ON to OFF can cause a loss of custom recorded phrases.

- 4. **To play back a previously recorded phrase,** set the phrase number on dipswitch
 S1 according to Table 2 and press switch S4
 once. The phrase is played back and LED D9
 is on. Pressing switch S3 again will stop the
 phrase playback and turn off LED D9.
- To recover the MXLV System from DMC-1 RECORD MODE and to recover the DMC-1 from the manual recording/playback state, follow the steps listed below:
 - a. Set the local M-NET network address for the DMC-1 on dipswitch S1 (See Table 1).
 - b. Change switch 1 of dipswitch S2 to the OPEN (or OFF) position; switch 2 of dipswitch S2 should be in the OPEN (or OFF) position.
 - c. Reset the MXLV Voice System. For information on resetting the MXLV Voice System, refer to the MXL/MXLV Operation, Installation, and Maintenance Manual, P/N 315-092036.

For manual recording on the bench:

Setup:

Place the OMM-1/2 on the bench and plug the DMC-1 on the OMM-1/2 card slot. Connect the wiring as shown in Figure 5.

Note: A 12V DC supply is needed for recording on the bench.

Recording/Playback:

The manual recording/playback procedure on the bench is the same as manual recording with the DMC-1 Card installed in the MXLV System. See *To play back a previously recorded phrase* in the preceding section for a description.

ERASING OF CUSTOM PHRASES BY THE USER:

For manual erasing of custom phrases while the DMC-1 Card is installed in the MXLV System (or in benchtop connection) and the system is powered up and running, follow the steps listed below:

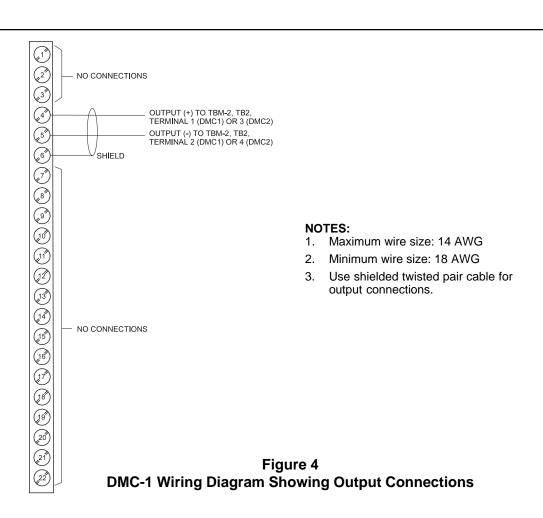
- Change switch 1 of dipswitch S2 to the CLOSED (or ON) position; switch 2 of dipswitch S2 should be in the OPEN (or OFF) position.
- The DMC-1 is now in the manual recording/ playback state and communication with the MXLV System will stop. The MXLV will annunciate DMC-1 RECORD MODE and connect the DMC-1 output to the local speaker.
- LED D3 lights to indicate the unit is in the recording mode. The number of userrecorded phrases is indicated by blinking LED D3 (for example, the LED blinks twice and then pauses repeatedly to indicate phrase 2).
- 4. Move jumper E1 from position 1-2 to position 2-3.
- 5. Set all switches of dipswitch S1 to the CLOSED (or ON) position.
- 6. Press switch S3 once.
- 7. Set all switches of dipswitch S1 to the OPEN (or OFF) position.
- 8. Press switch S3 once. All user-recorded phrases are now erased and LED D3 is on steady to indicate that no phrase is recorded.
- 9. Move jumper E1 from position 2-3 to position 1-2.

To recover the MXLV System from the DMC-1 RECORD MODE and to recover the DMC-1 from the state set for erasing all user-recorded phrases, follow the steps listed below:

- 1. Set the local M-NET network address for the DMC-1 on dipswitch S1 (See Table 1).
- 2. Change switch 1 of dipswitch S2 to the OPEN (or OFF) position; switch 2 of dipswitch S2 should be in the OPEN (or OFF) position.
- Reset the MXLV Voice System. For information on resetting the MXLV Voice System, refer to the MXL/MXLV Operation, Installation, and Maintenance Manual, P/N 315-092036.

ELECTRICAL PARAMETERS:

1	. Power supply input (Common MXLV System internal +5 VDC taken from interface bus through OMM-1/2 module)	+5 VDC
2	. Maximum current supplied to DMC-1 from MXLV internal +5 VDC	50mA
3	. Auxiliary power supply input for manual recording on bench only (Use any UL listed 12 VDC regulated power supply)	12 VDC
4	. Maximum current supplied to DMC-1 auxiliary power supply input	50mA
5	. Nominal level of audio input signal at J1	10mV RMS
6	. Maximum level of audio input signal at J1	25mV RMS
7	. Nominal level of audio input signal at J2	500mV RMS \ With terminating plug*
8	. Maximum level of audio input signal at J2	
9	. Total time for all custom recorded phrases	30 seconds
	*Terminating plug is included in DMC-REC Microphone Kit, P/N 500-095928.	



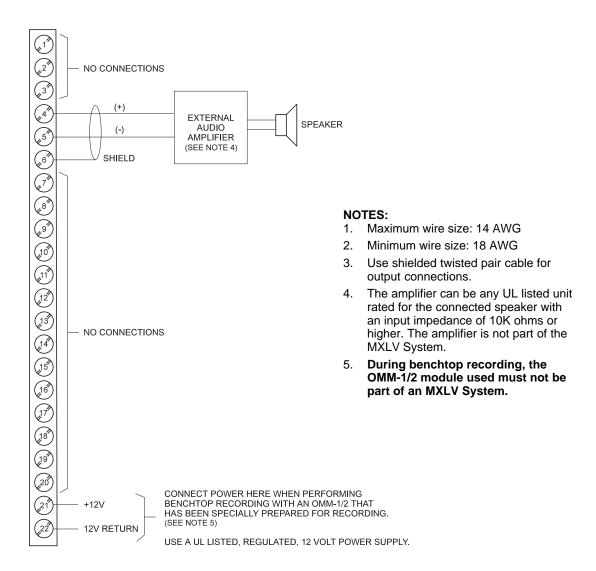


Figure 5
DMC-1 Wiring Diagram Showing Benchtop Manual Recording Connections