SIEMENS

Installation Instructions
Model MKB-4
Annunciator/Keypad Module

The **SIEMENS** Model MKB-4 Annunciator/Keypad provides the MXL-IQ/MXL System with its primary control and annunciation. The MKB-4 communicates with the SMB-1/2 or the MMB-1/2 Main Control Board through the System network link.

OPERATION

The MKB-4 has an 80-character, backlit LCD alphanumeric display that continuously updates information about the System status and user defined device messages (See Figure 1). If there are multiple alarms and/or troubles that include supervisories and security conditions, the MKB-4 displays the highest priority event that occurred. The user can see additional alarm and trouble data by pressing the NEXT key. Press the HOLD key at any time to stop the display from scrolling.

There are switches for the following functions:

- Acknowledging fire alarms **(ALARM ACK)**
- Silencing audibles **(AUD SIL)**
- Acknowledging supervisories **(SUPV ACK)**
- Acknowledging troubles **(TRBL ACK)**
- Acknowledging security conditions **(SEC ACK)**

There is also a separate key for resetting the Control Panel **(RESET).**

The 10-digit numeric keypad allows entry of the three levels of user passwords. It also does specific menu-driven operations as well as programming and maintenance functions.

Another series of switches located on the MKB-4 allows the user access to the MXL-IQ/MXL Control menu. There are also System status indicator LEDs. The **ALARM** and **TROUBLE** LEDs function even if the main processor fails (See Figure 1).
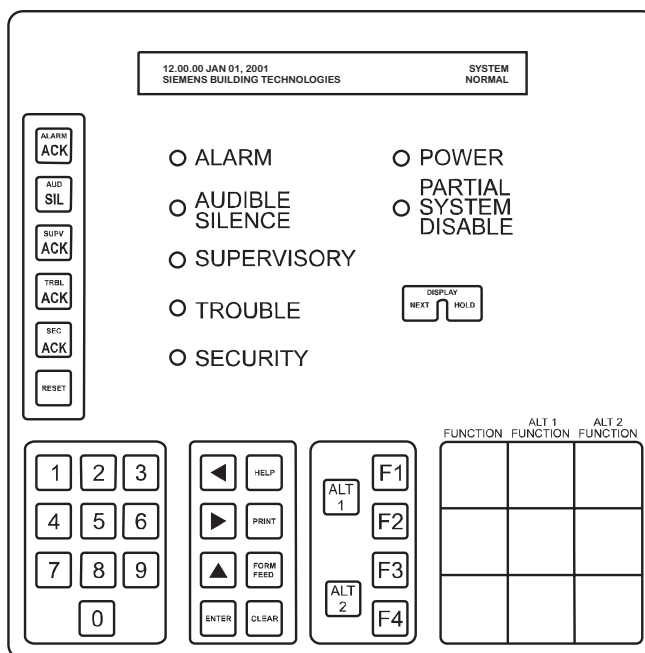

Figure 1
MKB-4 Panel

INSTALLATION

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

Unpack the MKB-4. Inspect the module for such things as integrated circuits (ICs) not firmly seated in their sockets, bent IC pins, connectors not properly installed, dirt, and packing material on the board.

Setting the Network Address (See Figure 2)

1. Before installing the MKB-4 panel, set its network address on S1, the switch on the ANN-1 board located on the back of the MKB-4. Use dipswitches SW1 and SW2 on switch S1 to set the network address of the MKB-4. Refer to Table 1 for switch settings.

2. The MKB-4 module address is always set within network addresses 248 through 251.

3. **One supervised MKB-4 must be installed at network address 251. Other supervised MKBs may be at the other addresses.**
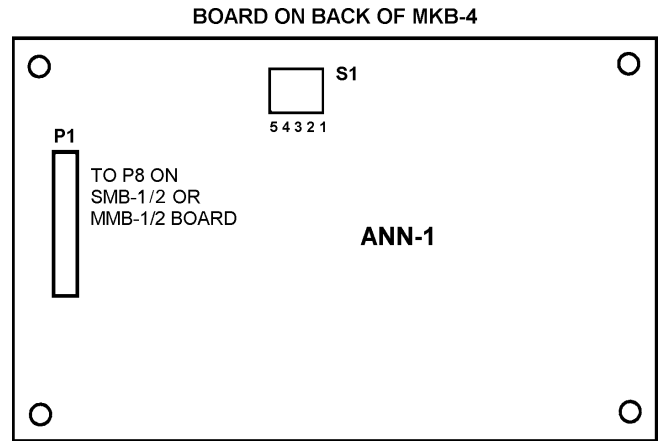

BOARD ON BACK OF MKB-4

**Figure 2
Setting S1 on the ANN-1 Board**

Setting Supervision

Use switch S1-SW5 on the ANN-1 to select or deselect supervision. If your ANN-1 has a switch with position 1 indicated on the left-hand side, ignore the printing on the switch. SW1 on S1 is at the extreme right-hand side of S1, regardless of any other marking.

<div align="center">

**To set for supervision
S1-SW5 = Closed (ON)
To set for non-supervision
S1-SW5 = Open (OFF)**

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NOTE: When you select non-supervision for an annunciator, there must also be **one and only one** supervised annunciator at the same address. The supervisory mode is independent of the network address.

**TABLE 1
SWITCH SETTINGS ON THE ANN-1**

SWITCH	ADDRESS SETTINGS FOR:			
	248	249	250	251
S1-SW1	Open-OFF	Closed-ON	Open-OFF	Closed-On
S1-SW2	Open-OFF	Open-OFF	Closed-ON	Closed-ON
S1-SW3	Closed-ON	Closed-ON	Closed-ON	Closed-ON
S1-SW4	Closed-ON	Closed-ON	Closed-ON	Closed-ON
S1-SW5	*See Setting Supervision*			

NOTE: Switches S1-SW3 and S1-SW4 are for future use. Switch S1-SW5 is used to select supervision.

Mounting the MKB-4
(Refer to Figures 3 and 4)

To mount the MKB-4 in an MSE-3/3L enclosure:

1. Install 3 screws in the first group of 3 tapped holes in the right flange as shown in Figure 3. Leave a 1/8-inch gap between the head of the screw and the flange. Slide the slots of the MKB-4 panel hinge under the head of the screws and tighten.

2. After the MKB-4 is mounted to the enclosure, connect the cable (P/N 555-192238) between P1 on the ANN-1 (on the back of the MKB-4) and P8 on the SMB-1/2.

   CAUTION: Be sure the black tracer wire on the edge of the cable is close to the **1** on position 1 of connector P1 on the ANN-1 and the **1** on position 1 of P8 on the SMB-1/2.

To mount the MKB-4 in an EBX-1/-2 backbox:

1. Install the XEA-1/-2 adapter plates and brackets in the EBX-1/-2 backbox according to the *XEA-1/-2 Installation Instructions,* P/N 315-093608.

2. Mount the MKB-4 on the right bracket using the hardware supplied with this module as shown in Figure 4. Install 3 screws in the 3 tapped holes in the right flange. Leave a $1/8$-inch gap between the head of the screw and the flange. Slide the slots of the MKB-4 panel hinge under the head of the screws. Adjust the position of the MKB-4 so that the module opens smoothly and closes securely against the magnet. Tighten the screws.

3. After the MKB-4 is mounted to the enclosure, connect the cable (P/N 555-192238) between P1 on the ANN-1 (on the back of the MKB-4) and P8 on the MMB-1/2.

   CAUTION: Be sure the black tracer wire on the edge of the cable is close to the **1** on position 1 of connector P1 on the ANN-1 and the **1** on position 1 of P8 on the MMB-1/2.
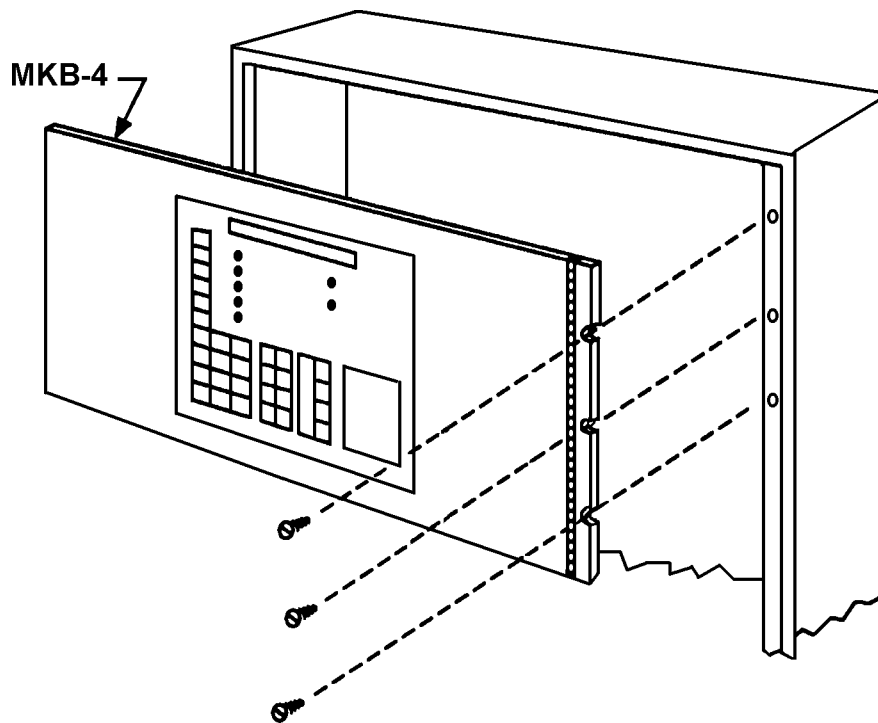

MKB-4

Figure 3
Installing the MKB-4 Annunciator/Keyboard in the MSE-3/3L

EBX-1/-2 BACKBOX

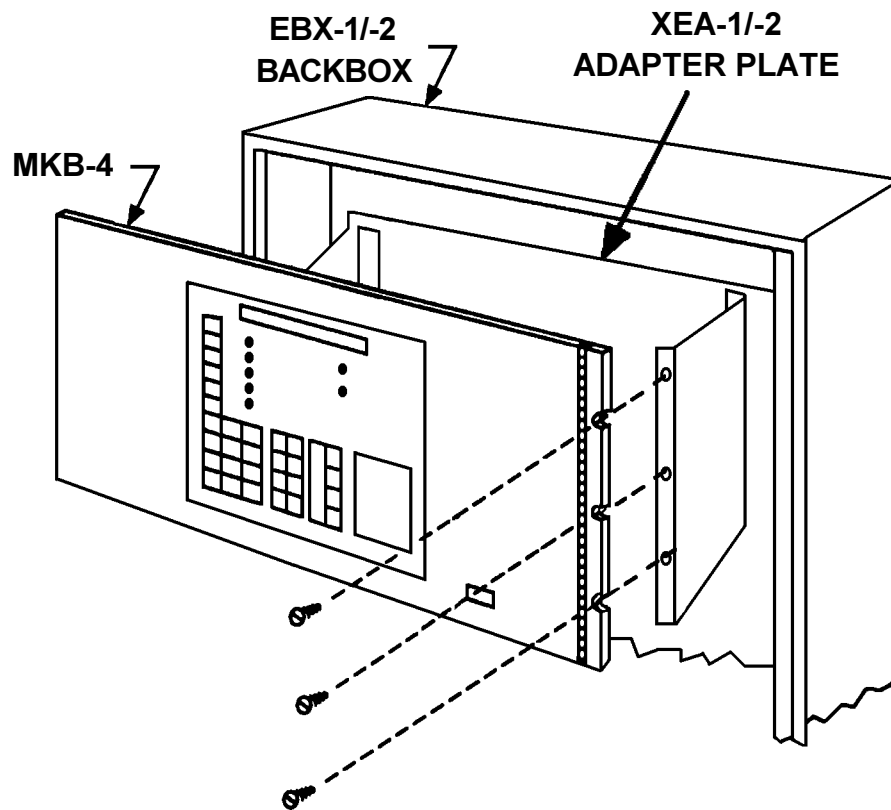**XEA-1/-2 ADAPTER PLATE**

MKB-4

Figure 4
Installing the MKB-4 Annunciator/Keyboard in the EBX-1/-2 Backbox