

# SIEMENS PIM-1 Peripheral Interface Module Instruction Manual

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# SIEMENS

## PIM-1 Peripheral Interface Module Instruction Manual

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## INTRODUCTION

The Model PIM-1 module from Siemens Industry, Inc., is an interface for an MXL/MXLV/MXL-IQ System to remote peripheral devices such as printers, VDTs, and CRTs. It connects an RS232C device or CRT to an MXL/MXLV/MXL-IQ System without the peripheral devices protective ground causing a ground fault. The interface operates at up to 9600 baud without losing any characters.

Mounting the PIM-1 in the MME-3 in the upper right-hand corner provides an isolated RS-232C port for an RS-232C printer when used with an MXL/MXLV System. The PIM-1 bidirectional interface supports a supervised or nonsupervised printer, a CRT, or a VDT. Do not use a nonsupervised printer for an NFPA 72 Proprietary or UL 1076 system.

For NFPA 72 Local, any EDP UL listed equipment may be used.

The PIM-1 has one factory installed jumper. See Figure 1 for the location of this jumper. Set it according to the instructions below before installing the PIM-1 on the MME-3.

### JUMPER G1

This jumper disconnects the output of the remote printer from PIM-1.  
For supervised printers: Leave jumper G1 in place.  
For non-supervised printers: Cut G1 to stop any input to the PIM-1.

## TB1, TERMINAL 1

(Refer to the table on Figure 1)

If the printer output is not regulated by using a printer busy signal, the PIM-1 may overwrite the printer buffer. If the busy signal is not used, the printer data is transmitted without any delay.

However, if the printer cannot keep up with the data being sent, material may be lost.

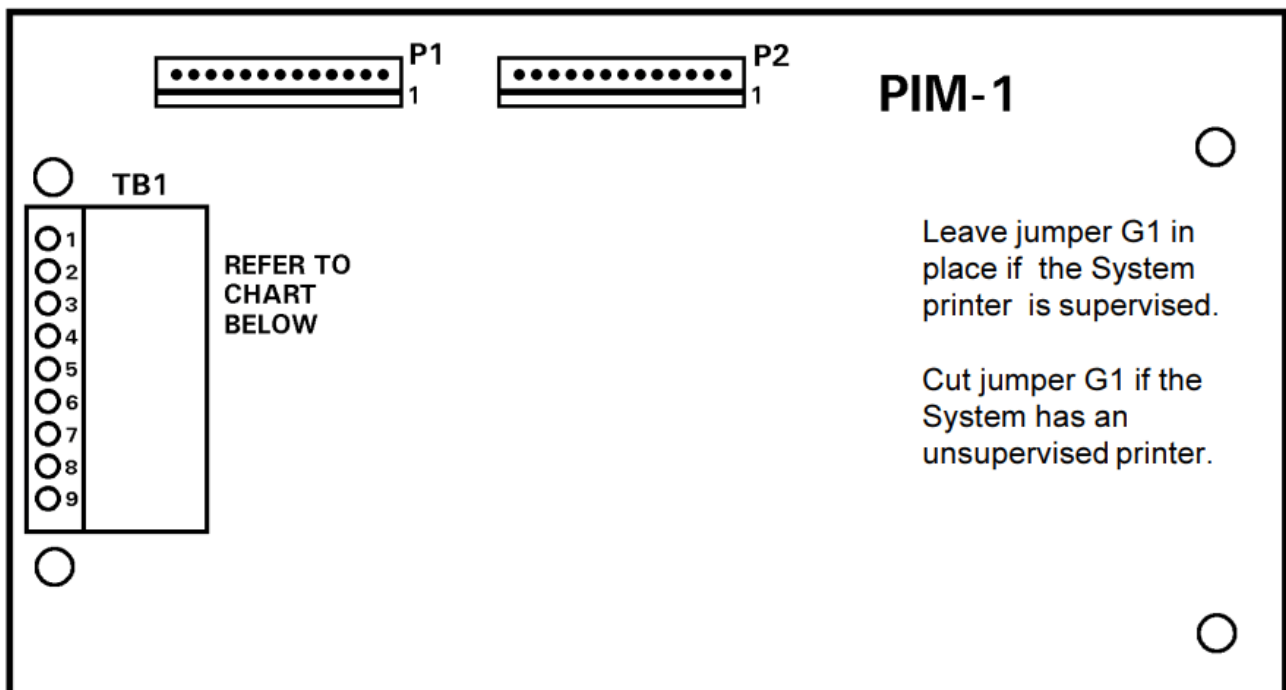
To use the busy signal, select the appropriate PIM-1 printer busy signal from the terminals described in the table in Figure 1.

## INSTALLATION

1. Install the PIM-1 in the upper right-hand corner of the MME-3 backbox. Position the PIM-1 so that TB1 is on the left side of the board.
2. Mount the PIM-1 module with the hardware provided.
3. Make the necessary cable connections for the PIM-1 according to the System configurations described below.

### For an MXL System without the Voice option: (See Figure 2)

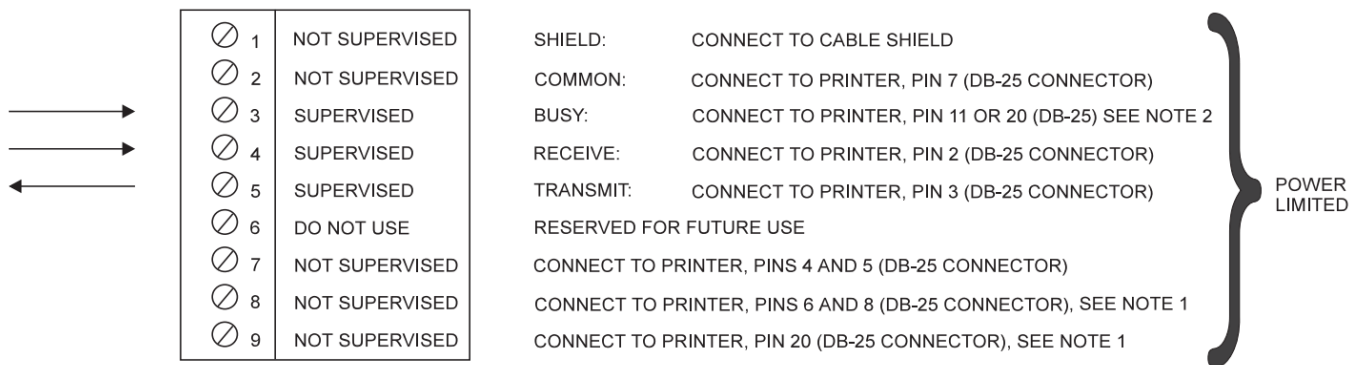
- a. With an MKB-2: Use the cable (P/N 555-192242) supplied with the PIM-1 to connect P2 on the PIM-1 to P8 on the MMB-1/-2.
- b. Use the cable supplied with the MKB-2 to connect P1 of the PIM-1 to P1 of the ANN-1.
- c. With an MKB-1: Use the cable (P/N 555-191323) supplied with the PIM-1 to connect the PIM-1 to the MMB-1/-2 on the MKB-1.



## TB1 CONNECTIONS

**CAUTION:** This table refers to whether or not the wiring connections are supervised.  
The table does not refer to the type of printer used in the System.

## DATA DIRECTION



## NOTES:

1. Terminals TB1-8 and 9 are connected together on the PIM-1.
2. The busy signal from the printer prevents the loss of characters if the printer falls behind. Refer to the printer manual for the proper pin [usually 11 (TB1-3) or 20 (TB1-9)].

### For an MXLV System with the Voice option: (See Figure 3)

- a. Use the cable (P/N 555-192242) supplied with the PIM to connect P2 on the PIM with P8 on the MMB-1/-2.
- b. Use the cable supplied with the MKB-2 to connect P1 on the PIM-1 to P5 on the ACM-1. (P4 on the ACM-1 then connects to P1 on the ANN-1 in this configuration.)

### For an MXL-IQ System: (See Figure 4)

- a. Install the PIM-1 on the back of the MKB-4 panel as shown in Figure 4. Position the PIM-1 so that TB1 is on the left side of the board.
- b. Mount the PIM-1 module on the raised studs with the hardware provided.
- c. Using the cable supplied with the PIM-1, connect PIM-1, P1 to ANN-1, P1.
- d. Using the cable supplied with the MKB-4, connect PIM-1, P2 to SMB-1/-2, P8.

### Installing the PIM-1 in other Enclosures:

The PIM-1 can also be installed in the RCC-1/-1F box or the MSE-2 enclosure. For information on those configurations, refer to the RCC-1/-1F Installation Instructions (P/N 315-095364) or to the MSE-2 Installation Instructions (P/N 315092403), as appropriate.

## COMMUNICATION PARAMETERS

Set the communication parameters for the connected devices so that they agree with those specified by CSG-M. See the CSG-M Manual (P/N 315-090381) for information on setting the parameters. UL requires that the printer be in the same room as the MXL/MXLV Control Panel.

### TI82OKSR (RC119/RC319) Supervised OPrinter Setup

The TI82OKSR (RC119/RC319) must have the following codes selected:

- 14
- 25-28 Baud rate to agree with CSG-M
- 38
- 81

## ELECTRICAL RATINGS

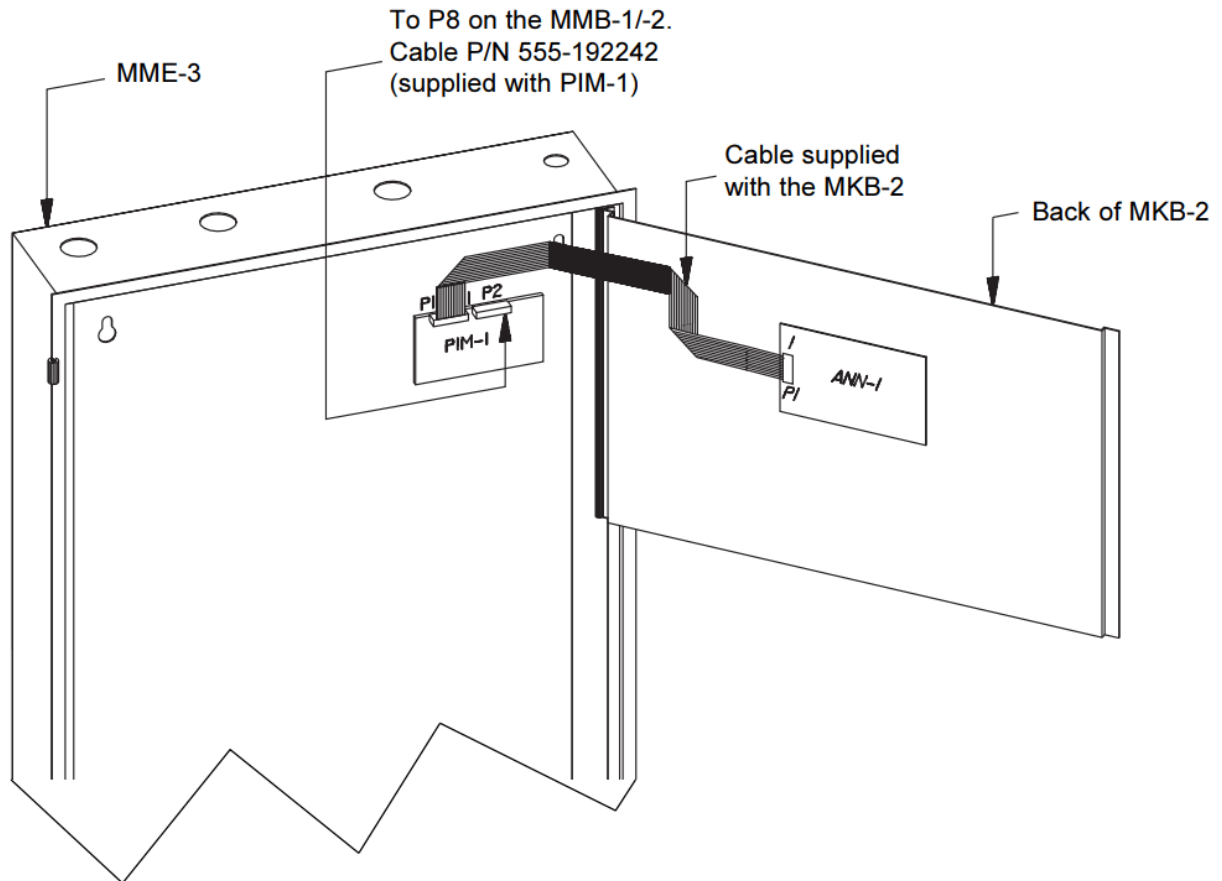
Active 5VDC Module Current	50mA
Active 24VDC Module Current	0mA
Standby 24VDC Module Current	15mA

#### Electrical Ratings for the RS-232C Interface

V :  $\pm 12$  VDC MAX I :  $\pm 5$ mA MAX

Maximum Cable Length: 25 feet (2 ohms max per circuit)

Refer to Figure 1 to complete the necessary wiring.



**Figure 2 MXL System Without Voice**

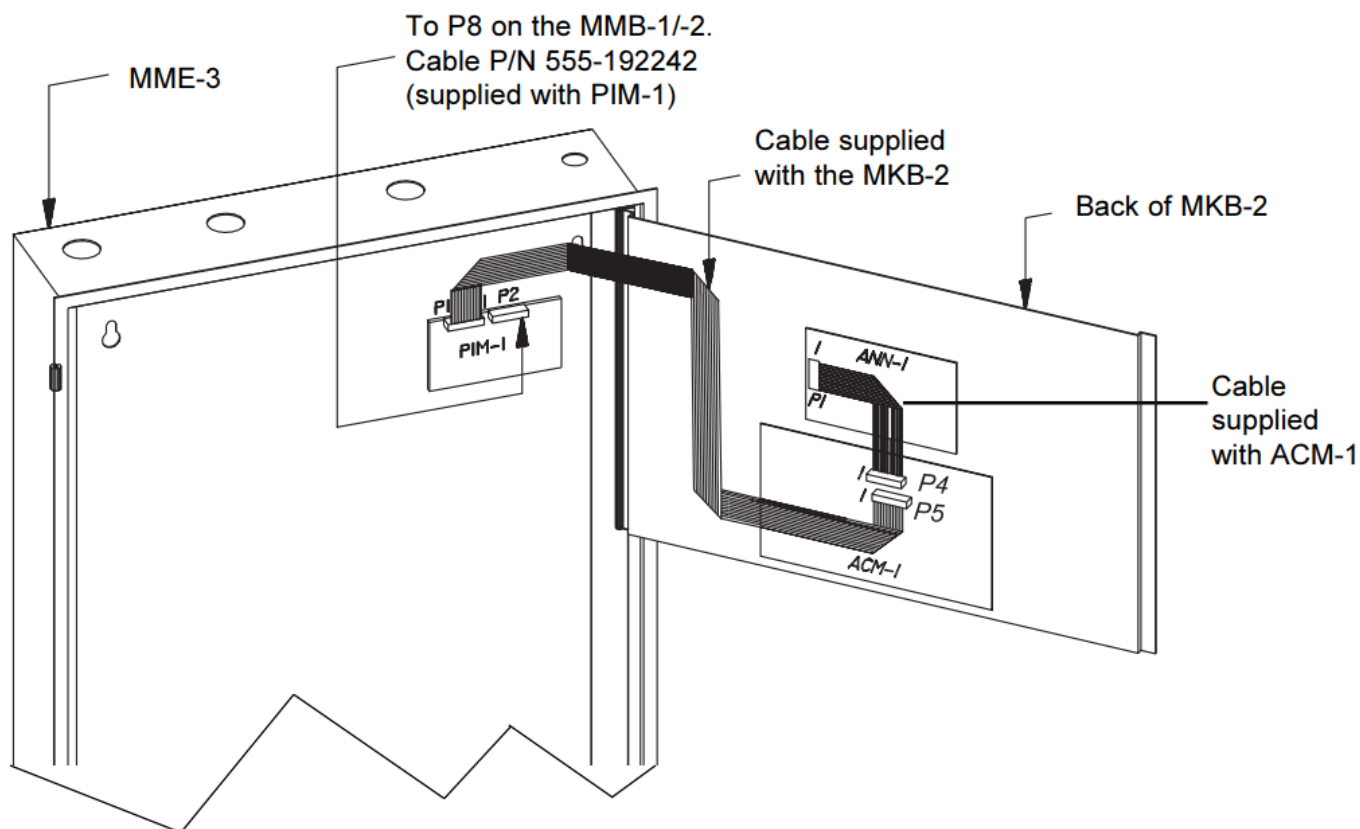


Figure 3 MXLV System With Voice Option

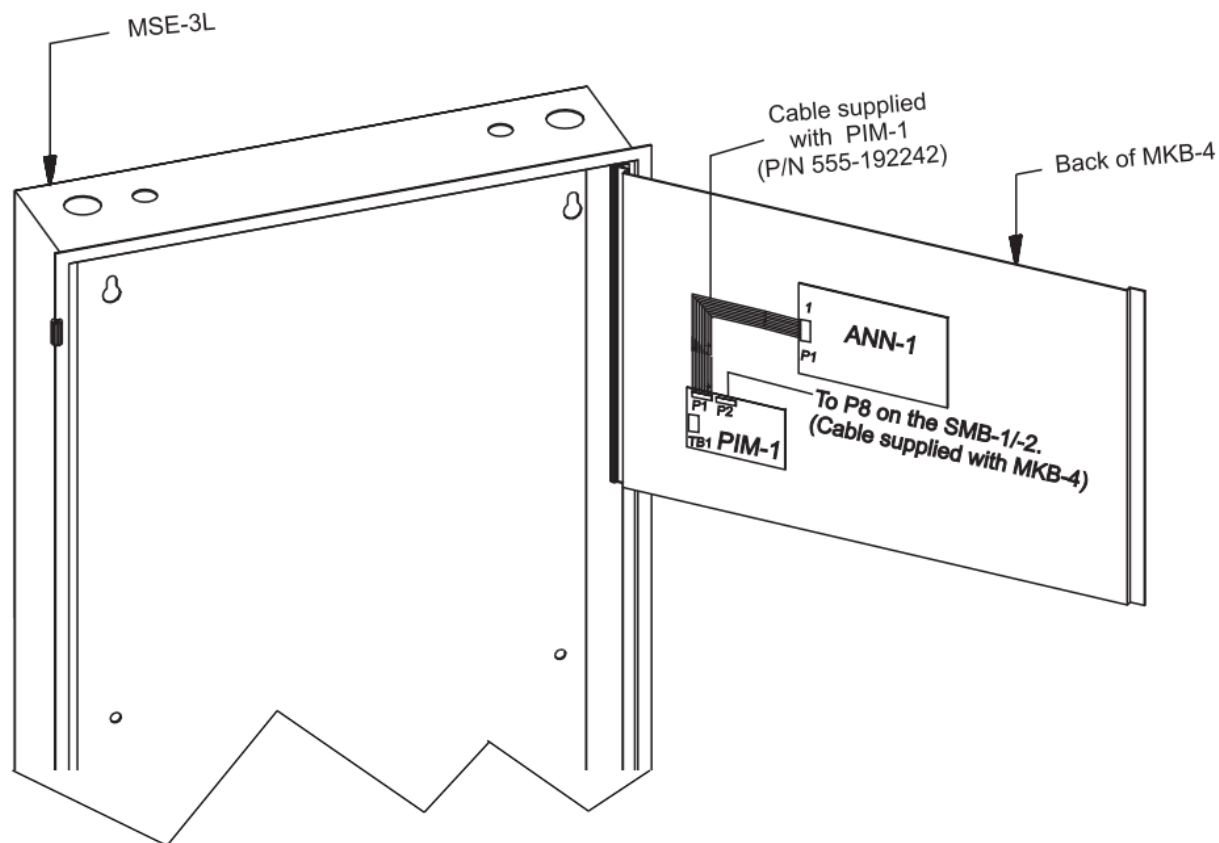


Figure 4 MXL-IQ System

# SIEMENS

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## Documents / Resources

	<p><a href="#">SIEMENS PIM-1 Peripheral Interface Module</a> [pdf] Instruction Manual PIM-1, PIM-1 Peripheral Interface Module, Peripheral Interface Module, Interface Module, Module</p>
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## References

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