

## Installation Instructions

### Model FMT

Fireman's Master Telephone

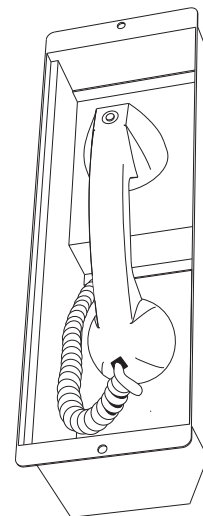


Figure 1  
FMT Fireman's  
Telephone Module

#### INTRODUCTION

The Model FMT Fireman's Master Telephone from Siemens Industry, Inc. provides firefighters with an emergency telephone system for communication with remote locations. The FMT is located in a FireFinder-XLS/Desigo Fire Safety Modular/Cerberus PRO Modular enclosure and includes a handset for the operator of the telephone system.

In FireFinder-XLS/Desigo Fire Safety Modular/Cerberus PRO Modular systems with multiple FMT Fireman's Master Telephones, one FMT is configured as the primary FMT and up to four secondary FMT modules may be connected. The telephone riser is supervised by the primary FMT with an EOL resistor installed at the end of the telephone riser (See Figure 5) for a Class B riser. The FMT\* can be optionally used in conjunction with the FMT-A-ADPT module, P/N 500-150338, to be wired as a Class A riser (See Figure 6).



\*Only FMTs marked "Class A" (See Figure 2) support Class A risers.

#### OPERATION

##### Controls and Indicators

The back panel of the FMT contains four LEDs, two CAN address switches and one six-position jumper header, J1, as shown in Figure 2. Factory released FMTs are configured as primary, with all five jumpers installed.

The function of the LEDs are defined as follows:

PWR (Power)	(Green)	Normally ON. When illuminated, indicates that power for the FMT is applied to the module.
CPU (Card Fail)	(Yellow)	Normally OFF. When illuminated, indicates that the card microprocessor has failed.
CAN (CAN Fail)	(Yellow)	Normally OFF. When illuminated, indicates that the CAN communication with the FMT has terminated.
RSR (Riser Fail)	(Yellow)	Normally OFF. When illuminated, indicates that the riser between the FMT and the TZC-8B is faulted.

#### PRE-INSTALLATION

Set the board address for the FMT using both of the ten-position rotary switches located on the back of the board (See Figure 2). Each of these addresses must be a sub-address of the DAC-NET and must be the same as the addresses assigned in the Zeus Programming Tool.



Factory released FMTs are configured as primary FMTs with five J1 jumpers installed. To configure an FMT as secondary, remove all five J1 jumpers. Refer to Figure 2.

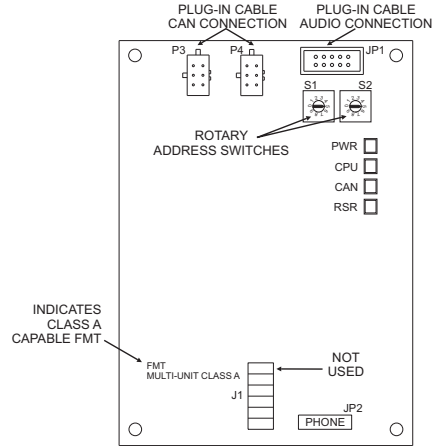


Figure 2  
FMT Cable Connections, Diagnostics, Address Switches and Configuration Jumper

## INSTALLATION

The FMT mounts to the rear of the inner door in the CAB-1, CAB-2, CAB-3 or REMBOX4 enclosures. Select the location of the FMT. It can be mounted on either side of the PMI/PMI-2/PMI-3 (XLS), FCM2041-U2 (Desigo Fire Safety Modular), FCM2041-U3 (Cerberus PRO Modular), over the two mounting studs in the desired location. Secure the FMT to the inner door with the two nuts provided. (Refer to Figure 3.)



When selecting the location to mount the FMT, keep in mind that no modules or power supplies/extenders can be installed in the space on the CAB-MP directly behind the FMT.



A primary Class A FMT can not be installed in a REMBOX 4.

CAN cable CCL (optional), a 30 inch long 6 wire cable, P/N 599-634214, or CAN cable, P/N 555-134100, an 8 inch long 6 wire cable connects the FMT to the next CAN module or to P3 on the CC-5/CC-2.

A 24 inch long 10 wire audio cable\*, P/N 555-134260, connects the FMT to P4

or P5 on the LVM. If there is no LVM in the configuration, connect the audio cable to P4 on the CC-5/CC-2, or to JP6 on the PMI/PMI-2/PMI-3 (XLS), FCM2041-U2 (Desigo Fire Safety Modular), FCM2041-U3 (Cerberus PRO Modular). (Refer to Figure 4.)

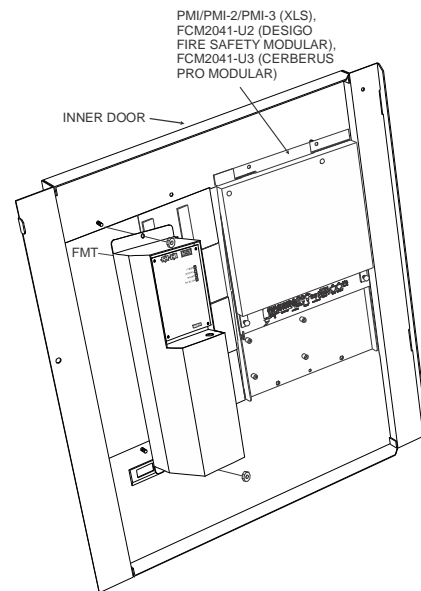


Figure 3  
Mounting FMT to Rear of Inner Door



\*FMT modules marked "Class A" (See Figure 2) must use the 6 wire version of this cable. Use of the 10 wire cable will result in an erroneous ground fault indication on the PSC-12 or PSC-12M.

Make sure that all cables seat fully into their connectors. Secure the cable in the back box using cable ties and the tie down points in the enclosure. The cable must have sufficient slack to allow the inner door to open fully without putting stress on the cable.



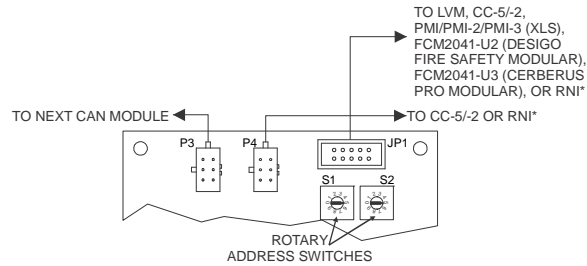
Refer to Figure 5 for FMT Class B Riser Wiring and Figure 6 for FMT Class A Riser Wiring.

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

- Each FMT module is a node in the CAN bus.
- Each FMT connects through the CC-5/CC-2 CAN bus via a plug-in cable to the DAC-NET.
- Up to 99 CAN modules, in any combination, can be connected to the CAN bus of each DAC-NET.
- Each FMT module is shipped with one FMT-CABLE, P/N 555-134100.
- Cable connections are shown in the following table and in Figure 4.

**FMT CABLE CONNECTIONS**

Cable	Description	Part Number	Connection
FMT-CABLE	CAN-CABLE 8 in., 6 wire	555-134100	Connects the FMT to the next CAN module.
FMT-CABLE	CAN-CABLE 30 in., 6 wire	599-634214	Optional cable connects the FMT to the CC-5/CC-2 or to the next CAN module on next row.
Audio Cable	AUDIO-CABLE 24 in., 10-pin, 6 wire	555-134260	Connects FMT module to an LVM or connects to a CC-5/CC-2 or PMI /PMI-2/PMI-3 (XLS), FCM2041-U2 (Desigo Fire Safety Modular), FCM2041-U3 (Cerberus PRO Modular) for Class B riser wiring.  For Class A riser wiring refer to the FMT-A-ADPT Installation Instructions, P/N 315-050338.  <b>NOTE:</b> The audio cable (555-134260) must be replaced with the one shipped with this unit (6 wire) in the event this installation is an FMT replacement in an existing installation.



\*SEE RNI INSTALLATION INSTRUCTIONS P/N 315-033420

Figure 4  
FMT Cable Connections



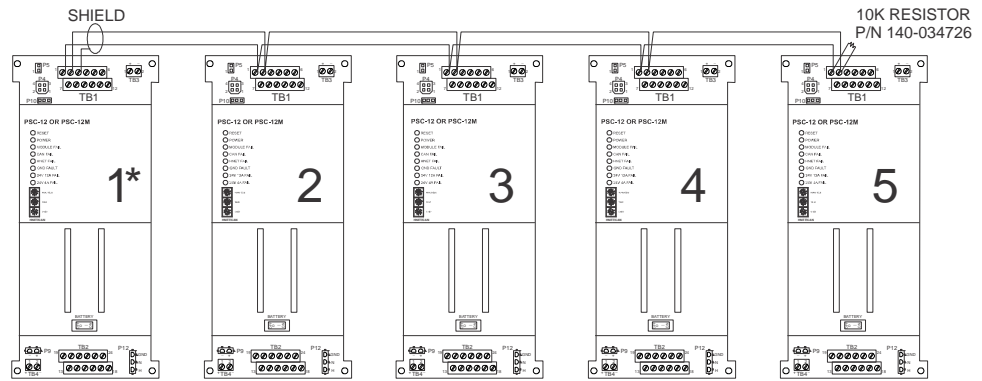
The CAN bus requires a 120Ω resistance at each end of the loop. Refer to the DAC-NET Installation Instructions, P/N 315-035100 for details about CAN termination.

ELECTRICAL RATINGS

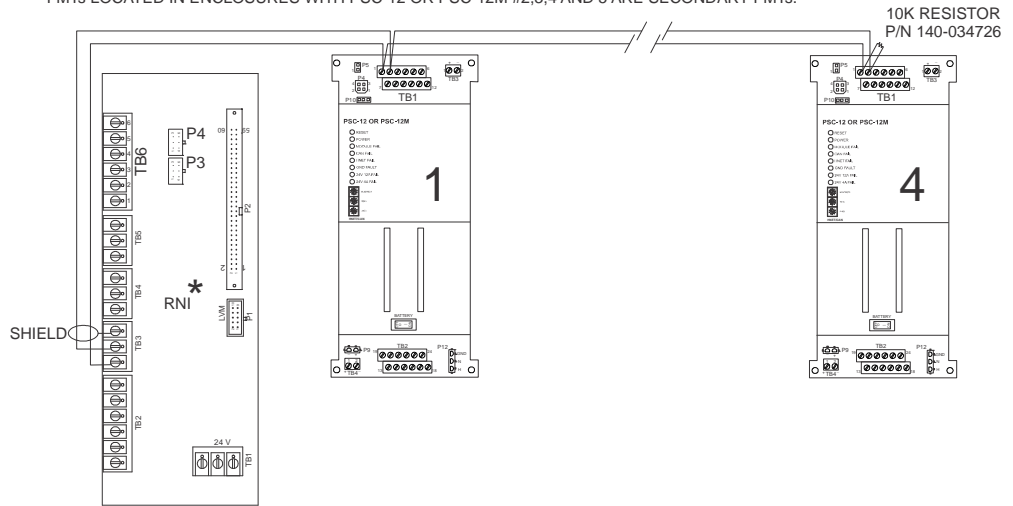
24V Back Plane Current	0
Screw Terminal 24V Current	75mA max. + 1mA per active LED
6.2V Back Plane Current	0
24V Standby Current	75mA max. + 1mA per active LED
<b>Output Power</b>	
CAN Network Pair	8V peak to peak max.
	75mA max. (during msg transmission)

NOTES

1. All wiring must be in accordance with NFPA 70 or local building codes.
2. All output circuits are power limited to NFPA 70 and supervised.
3. 100Ω max.
4. Use twisted pair or shielded twisted pair.
5. The FMT must be located at the end of the riser.
6. Ground faults detected at 30KΩ or less.



\*FMT LOCATED IN ENCLOSURE WITH PSC-12 OR PSC-12M #1 IS THE PRIMARY FMT.  
FMTs LOCATED IN ENCLOSURES WITH PSC-12 OR PSC-12M #2,3,4 AND 5 ARE SECONDARY FMTs.

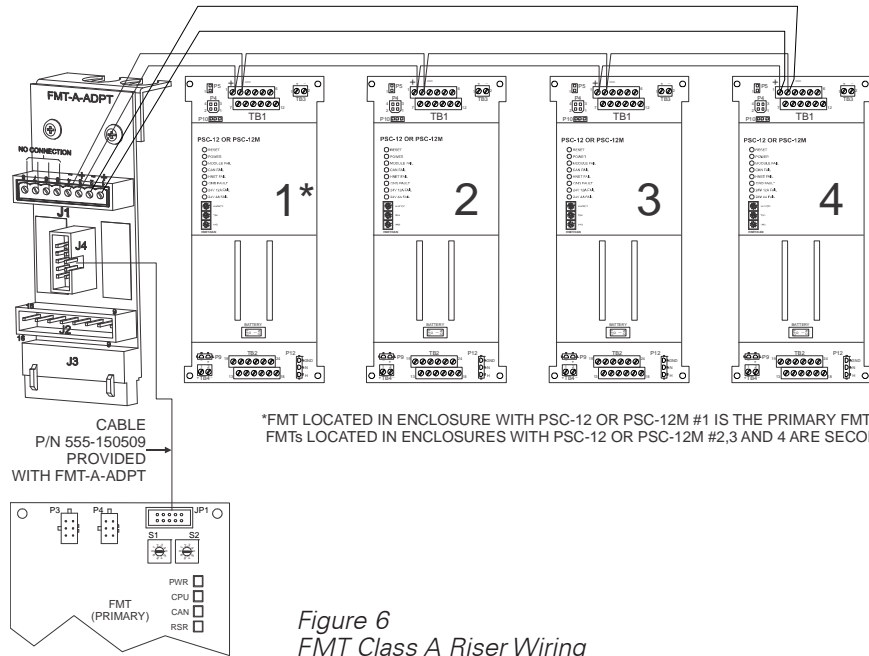


\*FMT LOCATED IN ENCLOSURE WITH RNI IS THE PRIMARY FMT.  
FMTs LOCATED IN ENCLOSURES WITH PSC-12 OR PSC-12M #1, 2, 3 AND 4 ARE SECONDARY FMTs.

Figure 5  
FMT Class B Riser Wiring

NOTES

1. All wiring must be in accordance with NFPA 70 or local building codes.
2. All output circuits are power limited to NFPA 70 and supervised.
3. 100Ω max.
4. Use twisted pair or shielded twisted pair.
5. The FMT must be located at the end of the riser.
6. Ground faults detected at 30KΩ or less.
7. The primary Class A FMT must be installed in a CAB1, CAB2 or CAB3.



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For CE applications in Siemens E100 systems refer to  
Installation Instruction A24205-A334-B844 (English) or A24205-A334-A844 (German).

Siemens Industry, Inc.  
Smart Infrastructure  
8 Fernwood Road  
Florham Park, NJ

Siemens Canada, Ltd.  
1577 North Service Road East  
Oakville, Ontario  
L6H 0H6 Canada

Siemens AG  
I BT FS SYS MCH  
D-81379 München

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