



TECHNICAL NOTE 06-97

MOBILE MAP PLUS SYSTEM INTERCONNECTION WITH PERIMETER PRODUCTS MX-1000

PRICING FOR ADDITION OF ACCESS DISPLAY

DATED NOVEMBER 26, 1997, REVISED FEBRUARY 16, 1998

INTRODUCTION

The alarm/secure condition of the MMP displays require one alarm input for each alarm zone in the system. The activation of the alarm input causes the zone lamp to change from green to flashing red. The access condition requires the addition of one "access" input for each alarm zone in the system requiring the access feature. Therefore, when calculating the required number of MMP encoder alarm inputs, there is one required for each alarm input and then one required for each zone access input. Continue to observe the maximum inputs for each MMP encoder (secure-alarm and access) up to the maximum number of 64 inputs total. Refer to CDT Technical Note 07-97 for a description of access input requirements and operation.

ALARM AND ACCESS ZONE CALCULATIONS

1. There is a total of 64 inputs per MMP alarm encoder. When the access function is utilized and all zones require access, there can be a maximum number of 32 accessed zones and therefore a maximum number of 32 alarm zones. A greater number of alarm zones requires additional equipment. Please contact the factory.
2. For practical purposes, within the maximum number of 64 inputs, there can be any number of zones with access up to a maximum of 32.
3. When ordering a system including the access feature, the alarm zones requiring access must be provided at the time of order. Special EEPROM programming is required for each remote display.
4. A special interface may be required for interconnection of the alarm and access inputs from the alarm system to the MMP encoder. Please contact the factory for additional information.

Example: there can be 54 alarm zones and 10 zones with the access feature for a total of 64 inputs.

REQUIREMENTS

1. *Perimeter Products Alarm Input Interface*
 - A. Alarm outputs are provided by the ARI decoder circuit board. The ARI can provide alarm or access outputs in groups of 8 up to a maximum of 48, which must follow the groups of 1-8, 9-16, 17-24, 25-32, 33-40, 41-48.
 - B. There must be a group on the ARI decoder card(s) for each alarm zone *and* each access zone. Sufficient ARI decoder cards must be provided to cover the zones in all groups.
 - C. The outputs of the ARI decoders are 60-pin connectors (48 outputs) while the inputs for the MMP encoder is a 60-pin connector (for zones up to 48) and screw terminals for the remaining zones to 64. An interface circuit board and ribbon cables are required to connect the ARI(s) to the MMP encoder and to program the ARI outputs to the correct MMP input zones. The circuit board programming is accomplished by custom wiring between connectors.
2. *MMP Encoder Changes*
 - A. The MMP encoder must have the zone number increased to include the total number of zones and the total number of accesses.

3. *MMP Remote and Vehicle Display Changes*
 - A. Each MMP display must be programmed with customized EEPROM software containing the matrix of alarm zones and access zones.
 - B. Each MMP display must be configured to include the total number of alarm zones plus the total number of access zones.

PRICING

The following items must be included in the price for the addition of the Access display to the standard MMP system:

1. *Alarm Input Interface*
 - A. Modification of ARI enclosure
 - B. Interface circuit board
 - C. Program wiring of interface
 - D. Additional 60-pin ribbon cables
2. *MMP Encoder*
 - A. Increase zones to include the number of alarm zones plus the number of access zones
3. *Each MMP Remote and Vehicle Display*
 - A. Include cost of access program and programming, one time for complete system.
 - B. Include cost of additional zones to each display.