

MAPNET II[®] Addressable Modules 2190-9172, -9172A Supervised IAMs Installation Instructions

The 2190-9172 or 2190-9172A Supervised IAM is connected to a 2120 Multiplex MAPNET II°Communicating Device Transponder (CDT), 4020, 4100+, or 4120 System by a single wire pair (MAPNET II°). The IAM receives both power and data over this pair; no additional wiring is required (unless Style 6 operation is used).

The 2190-9172 or 2190-9172A IAM is designed to monitor normally open (N.O.) alarm contacts.

INSTALLATION

IAM installation consists of:

- A. Setting the IAM's address and labeling the IAM.
- B. Making electrical connections to the IAM.
- C. Mechanically installing the IAM.

Part A — Setting the IAM's Address and Labeling the IAM

Each IAM has a unique address. This address is associated with a custom label which identifies its physical location within a building. The IAM's address and location must match up with the address listed in the specification sheets of the 2120 Job Configuration Report File, 4020 Programmer's Report, or 4100 Programmer's Report.

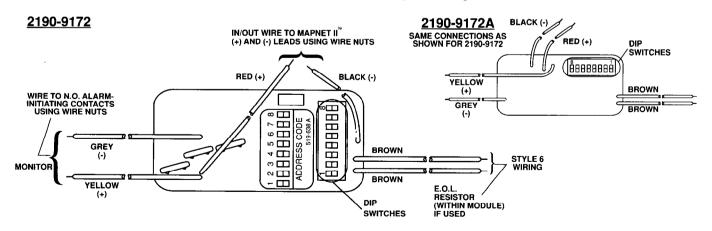
Address Setting for the 2120 CDT System

- 1. Using the 2120 Job Configuration Report File, find the entry for the IAM you are about to install. The CUSTOM LABEL column provides the location while the DEVICE ADDRESS column provides the switch setting data.
- 2. Using the switch setting data for the IAM you're installing, set the IAM's address. See Figure 1 for location of switches. Use a small screwdriver or pen to set the switches.

For the switch setting data in the DEVICE ADDRESS column, "0" is switch "ON" while "1" is switch "OFF."

Note: DIP Switch 8 is used for alarm latch — "ON"=NON-LATCH while "OFF"=LATCH.

3. Double-check the location of the IAM and its address before proceeding to Part B.



Location of IAM's DIP Switches and Unit Interconnections FIGURE 1

MAPNET II Communication Net is protected by U.S. Patent No. 4,796,025. Suffix "C" following an 8-digit Product ID number denotes ULC-listed product

Address Setting for the 4020, 4100+, or 4120 System

1. Using the Programmer's Report for the 4020, 4100+, or 4120, find the entry for the IAM you are about to install. The DEVICE ADDRESS and CUSTOM LABEL are located in the SYSTEM POINT SUMMARY under "M."

For example, Address M1-7 (for the 4100+ or 4120 system) is circled in Figure 2. M1 is the addressable channel while -7 is the device address on the channel. For an IAM with Address M1-7, Address 7 (circled in Table 1) must be set on the IAM's DIP switches. (Similarly, an IAM with Address M1-117 must have Address 117 set on its DIP switches.)

- 2. Using the example given in Step 1 as a guideline, set the IAM's address using Table 1. See Figure 1 for location of switches. Use a small screwdriver or pen to set the switches.
- Note: For 4020, 4100+, or 41-20, "1" is switch "ON" while "0" is switch "OFF."
- 3. Mark an address label with the appropriate address for your IAM by shading a corresponding label box for each IAM DIP switch in the ON position. (Address label marked Address 7 [with Alarm Latch] is shown in Figure 3.) Then apply the label to the IAM near the IAM's DIP switches.
- Double-check the location of the IAM and its address before proceeding to Part B.

4020 System

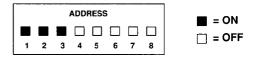
	SYSTEM POINT SUMMARY		10:50:20,	
nt Summary (ascending by z		POINT SUMMARY ZONE		
		Device	Point	PNIS
Custom Label		Туре	Type	Code
MULTI IO CARD 1 POINT IO	1	PULL	MONA	
MULTI IO CARD 1 POINT IO	2	PULL	MONA	
MULTI IO CARD 1 POINT IO	3	SSIGNAL	SIGA	
MULTI IO CARD 1 POINT IO	4	SSIGNAL	SIGA	/
COMPUTER LAB BLDG 21		VSMOKE	ION	
3RD FLOOR EAST WING ROOM	M 18	SMOKE	GENIAM	
2ND FLOOR WEST WING ROOM	M 12	SMOKE	ADRDET	
BASEMENT EAST WING ROOM	3 109	SFPUMP	MONA	
	Custom Label MULTI IO CARD 1 POINT IO COMPUTER LAB BLDG 21 3RD FLOOR EAST WING ROOM 2ND FLOOR WEST WING ROOM	Custom Label MULTI IO CARD 1 POINT IO1 MULTI IO CARD 1 POINT IO2 MULTI IO CARD 1 POINT IO3 MULTI IO CARD 1 POINT IO3 MULTI IO CARD 1 POINT IO4 COMPUTER LAB BLDG 21 3RD FLOOR EAST WING ROOM 18 2ND FLOOR WEST WING ROOM 12	Device Custom Label MULTI IO CARD 1 POINT IO1 MULTI IO CARD 1 POINT IO2 MULTI IO CARD 1 POINT IO3 MULTI IO CARD 1 POINT IO3 MULTI IO CARD 1 POINT IO4 MULTI IO CARD 1 POINT IO4 SSIGNAL MULTI IO CARD 1 POINT IO4 SSIGNAL COMPUTER LAB BLDG 21 3RD FLOOR EAST WING ROOM 18 SMOKE 2ND FLOOR WEST WING ROOM 12 SMOKE	Device Point Custom Label Type Type MULTI IO CARD 1 POINT IO1 PULL MONA MULTI IO CARD 1 POINT IO2 PULL MONA MULTI IO CARD 1 POINT IO3 SSIGNAL SIGA MULTI IO CARD 1 POINT IO4 SSIGNAL SIGA COMPUTER LAB BLDG 21 VSMOKE ION 3RD FLOOR EAST WING ROOM 18 SMOKE GENIAM 2ND FLOOR WEST WING ROOM 12 SMOKE ADRDET

DEVICE ADDRESS

4100+ or 4120 System

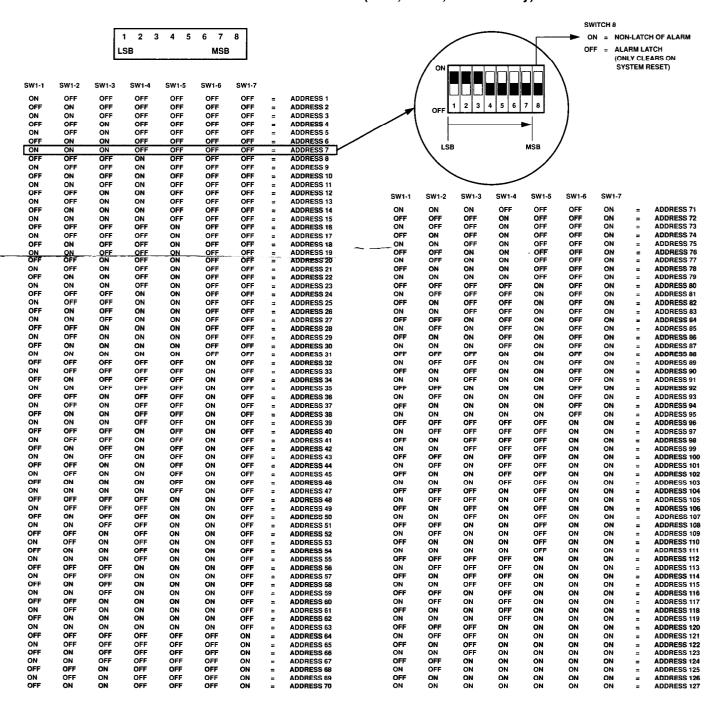
DOCUMENTAT		SYSTEM POINT SUMMARY			Page 2		
	ode:1 rev:1			16:32:47,	16:32:47, WED, 14-JUN-95		
System Point Summary (ascending by zone name): POINT SUMMARY ZONE							
		· ~ —	Device	Point	PNIS		
Zone Name	Custom Label		Type	Туре	Code		
M1-1	FIRST FLOOR MICROWAVE ROOM	M1-1	ADRPUL	PULL			
M1-2	FIRST FLOOR DINING ROOM	M1-2	ADRPUL	PULL			
M1 - 3	FIRST FLOOR LOBBY	M1-3	ADRPUL	PULL			
M1 - 4	FIRST FLOOR MECHANICAL ROOM 2	M1 - 4	ADRPUL	PULL			
M1-5	FIRST FLOOR LOADING DOCK	M1-5 .	ADRPUL	PULL			
M1-6	1ST FLR MECH RM 1	M1-6	PHOTO	VSMOKE			
M1-7	1ST FLR MECH RM 1	M1-7	SMOKE	GENIAM			

DEVICE ADDRESS



MAPNET II* Address Label (4020, 4100+, or 4120 Only) FIGURE 3

TABLE 1
MAPNET II* Address Label (4020, 4100+, or 4120 Only)



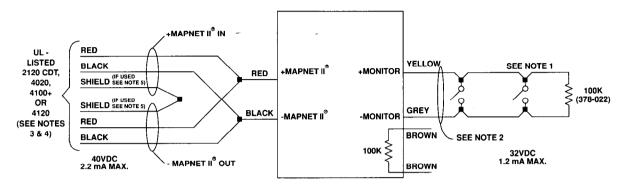
Part B — Making Electrical Connections to the IAM

CAUTION: Ensure that cable shields (if used) do not ground when closing the box. Use shrink tubing or high grade electrical tape to cover bare shield.

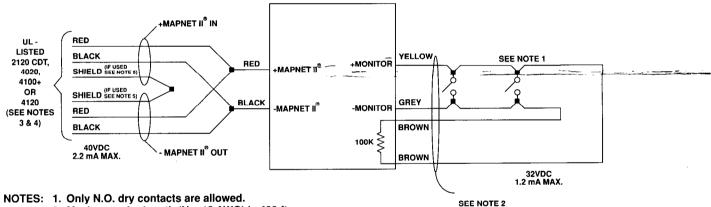
The IAM is connected to the CDT, 4020, 4100+, or 4120 System via a single wire pair (No. 18 AWG minimum).

Connect the IAM to the MAPNET II* wire pair using Figure 1 and Figure 4 as references. (Refer to the appropriate CDT panel cabinet drawing for MAPNET II* panel connections.)

USING OFF-BOARD E.O.L. RESISTOR



USING ON-BOARD E.O.L. RESISTOR



- 2. Maximum wire length (No. 18 AWG) is 400 ft.
- 3. A maximum of 85 supervised IAMs are allowed on a MAPNET II® channel. (Each IAM uses a capacity of 1.5 MAPNET II® devices).
- 4. The 2120 CDT must have a 562-464 Power Supply Board which is Rev. S or later. The 4100+ must have a 562-974 MAPNET II° Power Supply Board which is Rev. E or later and a 562-976 MAPNET II° Transceiver Board which is Rev. F or later.
- 5. Wire nut, splice, or solder the shield wires. See CAUTION above.
- 6. All circuits are power-limited only if connected to a MAPNET® channel in a 4020 Control Unit or a MAPNET® channel in a system with the 4100/4120-6050 power-limited option. If other systems are used, no circuits are power-limited.

Electrical Installation FIGURE 4

Part C — Mechanically Installing the IAM

CAUTION: The IAM must be installed into a grounded, metal box.

Install IAM in an electrical junction box or install IAM and a monitored device within a common enclosure. (The 2190-9172 IAM requires 1.9 cu. inches of volume while the 2190-9172A requires 7 cu. inches of volume.)

Note: Although the IAM needs only 1.9 cu. inches (2190-9172) or 7 cu. inches (2190-9172A) of volume, respectively, be sure to allow additional volume for wires and connections.

