

# INSTALLATION AND OPERATION MANUAL INDIVIDUAL ZONE ALARM OUTPUT MODULE ADDENDUM FOR MODELS MCD-1, 4, 8, 16

**Please use this addendum in conjunction with your system manual**



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## INTRODUCTION

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This addendum provides the installation and wiring instructions for the individual zone alarm output option. The addendum should be used in conjunction with the main Installation and Operation Manual of your system.

The individual zone alarm output option for the IR-SNIF-MCD provides up to eight additional alarm relays per module. Each relay module consists of eight single-pole, double-throw relays and an address switch to configure the function of the alarm relays.

### CAUTION

**THE RELAY CONTACTS SHOULD BE USED WITHIN THEIR RATINGS: 1 AMP MAXIMUM, 30 VOLTS AC OR DC MAXIMUM**

The individual zone alarm output option can be addressed to provide the following alarms:

Refrigerant Alarms:

Zone 1-8 Low Alarm  
Zone 9-16 Low Alarm  
Zone 1-8 Main Alarm  
Zone 9-16 Main Alarm  
Zone 1-8 High Alarm  
Zone 9-16 High Alarm  
Zone 1-4 Low Alarm and Zone 1-4 Main Alarm  
Zone 1-4 Main Alarm and Zone 1-4 High Alarm

The following additional functions are available in conjunction with the 4-20 mA analog input option:

Analog Input Alarms:

Analog input 1-4 Low and Analog input 1-4 High  
Analog input 1-4 Low and Analog input 1-4 Main

Combination Refrigerant and Analog Input Alarms:

Analog input 1-4 Low Alarm and Zone 1-4 Main Alarm

Function Addressing:

Each individual zone alarm output module located in the rear monitor, or the far right corner of the board. The switch consists of four small rocker switches which will control the function of the module. The switches are numbered 1 through 4, starting with 1 in the back of the monitor and 4 to the front. The switches can be changed using a small screwdriver to push the rocker. Pushing the left down is off, right down is on.

Zone 1-8 Low Alarm:

Switch 1 on (right side down)  
Switch 2 off (left side down)  
Switch 3 on (right side down)  
Switch 4 off (left side down)

Zone 9-16 Low Alarm

Switch 1 off (left side down)  
Switch 2 on (right side down)  
Switch 3 on (right side down)  
Switch 4 off (left side down)

Zone 1-8 Main Alarm

Switch 1 on (right side down)  
Switch 2 on (right side down)  
Switch 3 off (left side down)  
Switch 4 off (left side down)

Zone 9-16 Main Alarm

Switch 1 off (left side down)  
Switch 2 off (left side down)  
Switch 3 on (right side down)  
Switch 4 off (left side down)

Zone 1-8 High Alarm

Switch 1 on (right side down)  
Switch 2 on (right side down)  
Switch 3 on (right side down)  
Switch 4 off (left side down)

Zone 9-16 High Alarm

Switch 1 off (left side down)  
Switch 2 off (left side down)  
Switch 3 off (left side down)  
Switch 4 on (right side down)

Zone 1-4 Low Alarm and Zone 1-4 Main Alarm

- Switch 1 off (left side down)
- Switch 2 off (left side down)
- Switch 3 on (right side down)
- Switch 4 on (right side down)

- Switch 3 off (left side down)
- Switch 4 on (right side down)

Zone 1-4 Main Alarm and Zone 1-4 High Alarm

- Switch 1 on (right side down)
- Switch 2 off (left side down)
- Switch 3 on (right side down)
- Switch 4 on (right side down)

Analog input 1-4 Low and Zone 1-4 Main

- Switch 1 on (right side down)
- Switch 2 on (right side down)
- Switch 3 off (left side down)
- Switch 4 on (right side down)

### INSTALLATION AND WIRING

Analog input 1-4 Low and Analog input 1-4 High

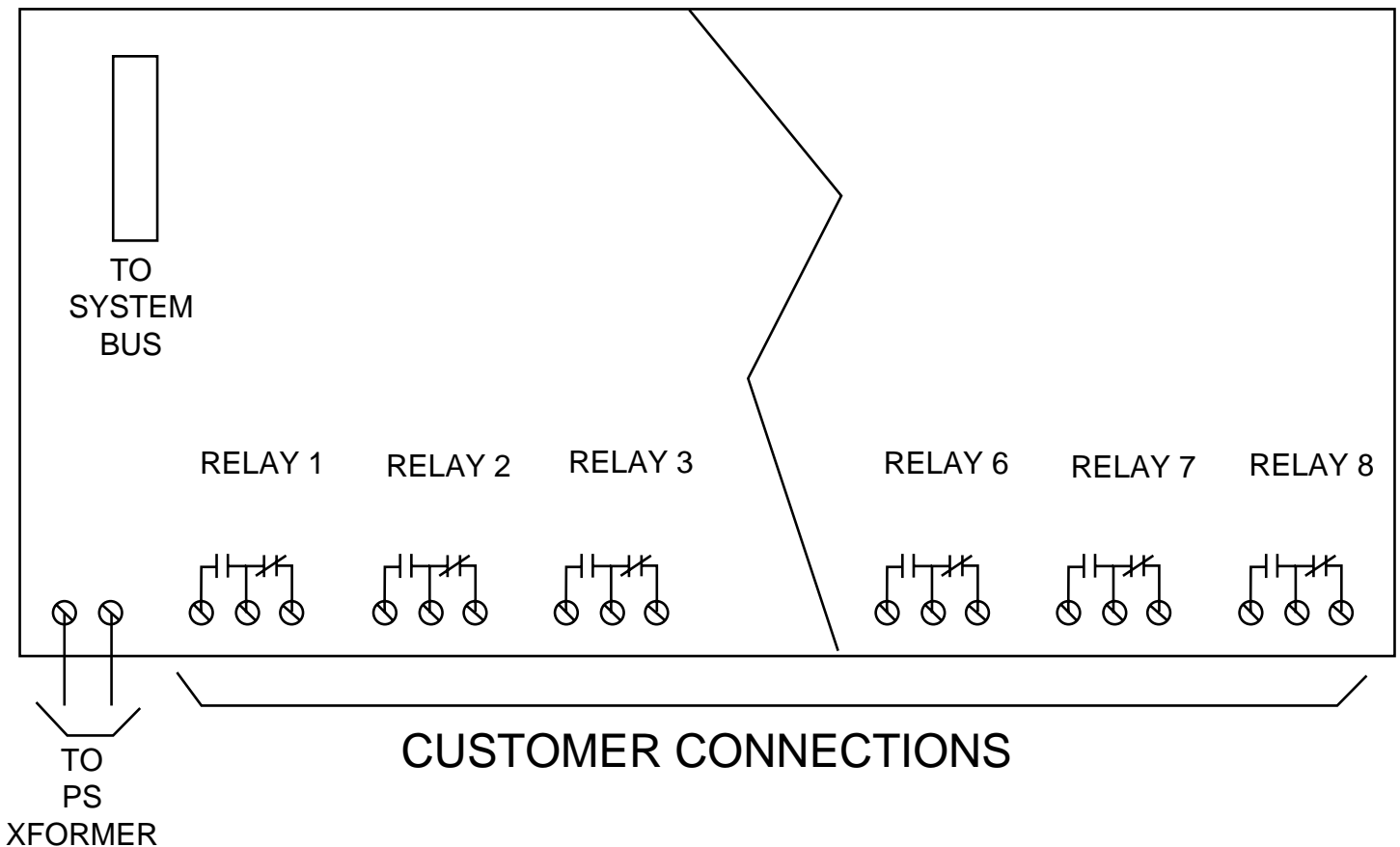
- Switch 1 on (right side down)
- Switch 2 off (left side down)
- Switch 3 off (left side down)
- Switch 4 on (right side down)

Before proceeding with wiring for the individual zone alarm output, familiarize yourself with the installation of the Monitor as outlined in the main Installation and Operations Manual.

Analog input 1-4 Low and Analog input 1-4 Main

- Switch 1 off (left side down)
- Switch 2 on (right side down)

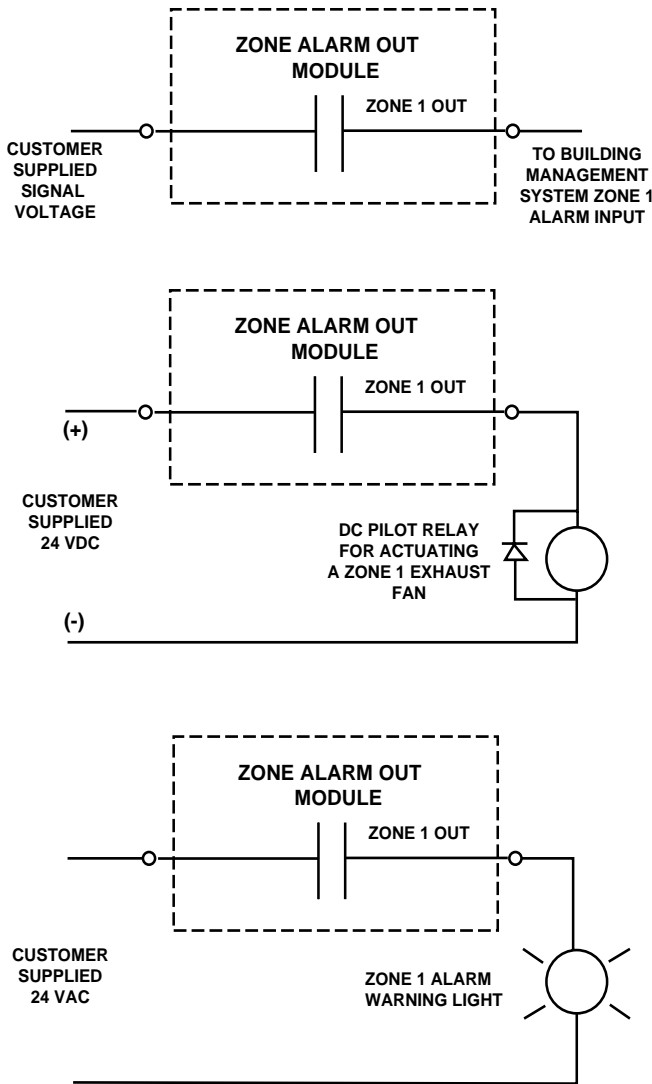
Figure 1 is an illustration and wiring diagram of the option. For noise suppression reasons, the relay contacts are over voltage protected at 48 Volts.



**ZONE ALARM OUTPUT WIRING DIAGRAM**

**Figure 1**

Having confirmed proper operation, reset the monitor.



**Typical Customer Connections  
Figure 2**

Figure 2 illustrates some typical examples of utilizing the individual zone alarm outputs. After deciding on how to use the signal, double check that the selected loads do not exceed the contact ratings of the module.

Install the wiring from each Zone Alarm Output to the devices selected.

After completing and double checking the wiring, you can test for proper operation by putting the system into alarm. (Refer to the Installation and Operations Manual of your monitor.) Once the system is in alarm, the relay for the zone in alarm should be energized. Closing the contacts and turning your device ON. The red LED behind the relay for that zone will also be lit.