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INSTALLATION INSTRUCTIONS FOR

## Model HM1 MOTHERBOARD

- Using four (4) #8 screws, fasten the Model HM1 Motherboard to a solid surface.
- Make the appropriate connections to the PWR+, PWR-, and EARTH terminals on terminal strip TS1.

Voltage	PWR+	PWR-	EARTH
AC	AC Line	AC Neutral	Ground
DC	DC+	DC-	Ground

- Terminate the input leads from loops 1, 2, and/or 3 at the appropriate terminals on terminal strip TS1.
- Make connections to the outputs of detectors 1, 2, and/or 3 at the appropriate terminals on terminal strip TS2.

Output Type	Terminal A	Terminal B	Terminal C
Solid-State	Collector / Drain	No Connection	Emitter / Source
Relay	Normally Open	Normally Closed	Common

- Connect the loop fail outputs to the NC, NO, and COM terminals on terminal strip TS3. Note: Solid-State Output models should not have a connection made to the NC terminal.
- Set the SW1 DIP switches to the appropriate positions. Refer to the Model HM1 Operating Instructions.
- Install up to three (3) Model H or Model H1 loop detectors onto the Model HM1 Motherboard. Plug the detectors onto the male connectors labeled 1, 2, and/or 3.

OPERATING INSTRUCTIONS FOR

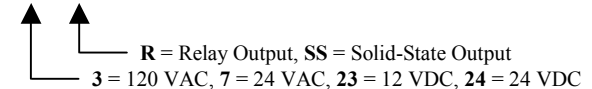
## Model HM1 MOTHERBOARD

### I. General

The HM1 Motherboard is available in various AC and DC input voltages and configured for Solid-State or Relay Outputs.

The model number designates the configuration as follows:

Model HM1-XX-XX



### II. DIP Switch Settings

Switch	On	Off	Factory Default
1	Slot 1 Empty	Detector 1 Present	Off
2	Slot 2 Empty	Detector 2 Present	On
3	Slot 3 Empty	Detector 3 Present	On

### III. Detector Output

Depending on the configuration of the HM1 Motherboard (Solid-State or Relay Output), Detector Output A will operate as follows:

Output Type	FAIL-SAFE OPERATION				FAIL-SECURE OPERATION			
	Call	No Call	Power Failure	Loop Failure	Call	No Call	Power Failure	Loop Failure
Solid-State	ON	OFF	OFF	ON	ON	OFF	OFF	OFF
Relay	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF

### IV. Fail Output Terminal

Output Type	Normal Operation	Any Failure	No Power
Solid-State	ON	OFF	OFF
Relay	ON	OFF	OFF