

Pinaco Fire Alarm

MONITORING MODULE
SINGLE I/O MODULE
DOUBLE I/O MODULE

MOD-A300
MOD-A301
MOD-A303

Module Description

Interface Module	Function
Monitoring Module MOD-A300	To monitor the status of other equipment, eg..Pumps Status, Valves Status...etc, by providing :- 1 set N/O (default), or N/C contact input.
Single I/O Module MOD-A301	To monitor and control other equipment, eg.. AHU, Fans, Pumps..etc, by providing :- 1 set N/O (default), or N/C contact input 1 set C, N/O & N/C contact output
Double I/O Module MOD-A303	To monitor and control other equipment, eg.. AHU, Fans, Pumps..etc, by providing :- 2 sets N/O (default), or N/C contact input 2 sets C, N/O & N/C contact output

The Addressable Modules are used as interfaces between the Addressable Alarm Panels and other related equipment in the Fire Alarm System; for example :- monitoring of Valves open/close status, tripping of AHU, control and monitoring of Fans and Pumps..etc.

With proper selection of the suitable Modules to be used, each Module will have an individual 'Address', and could be easily programmed with a logic control or monitoring function to suit the System's requirement.

The Modules are compatible with all **PINACO** range of Addressable Fire Alarm Panels.



Monitoring Module
Model : MOD-A300

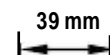
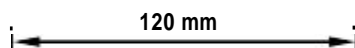


Single I/O Module
Model : MOD-A301

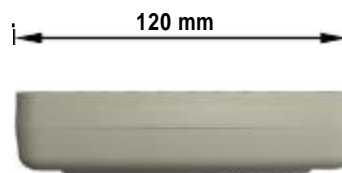


Double I/O Module
Model : MOD-A303

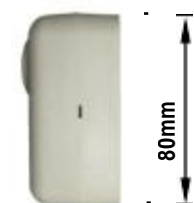
Typical Dimension :-



Typical Mounting Base
c/w Screwed Terminals



Plan View

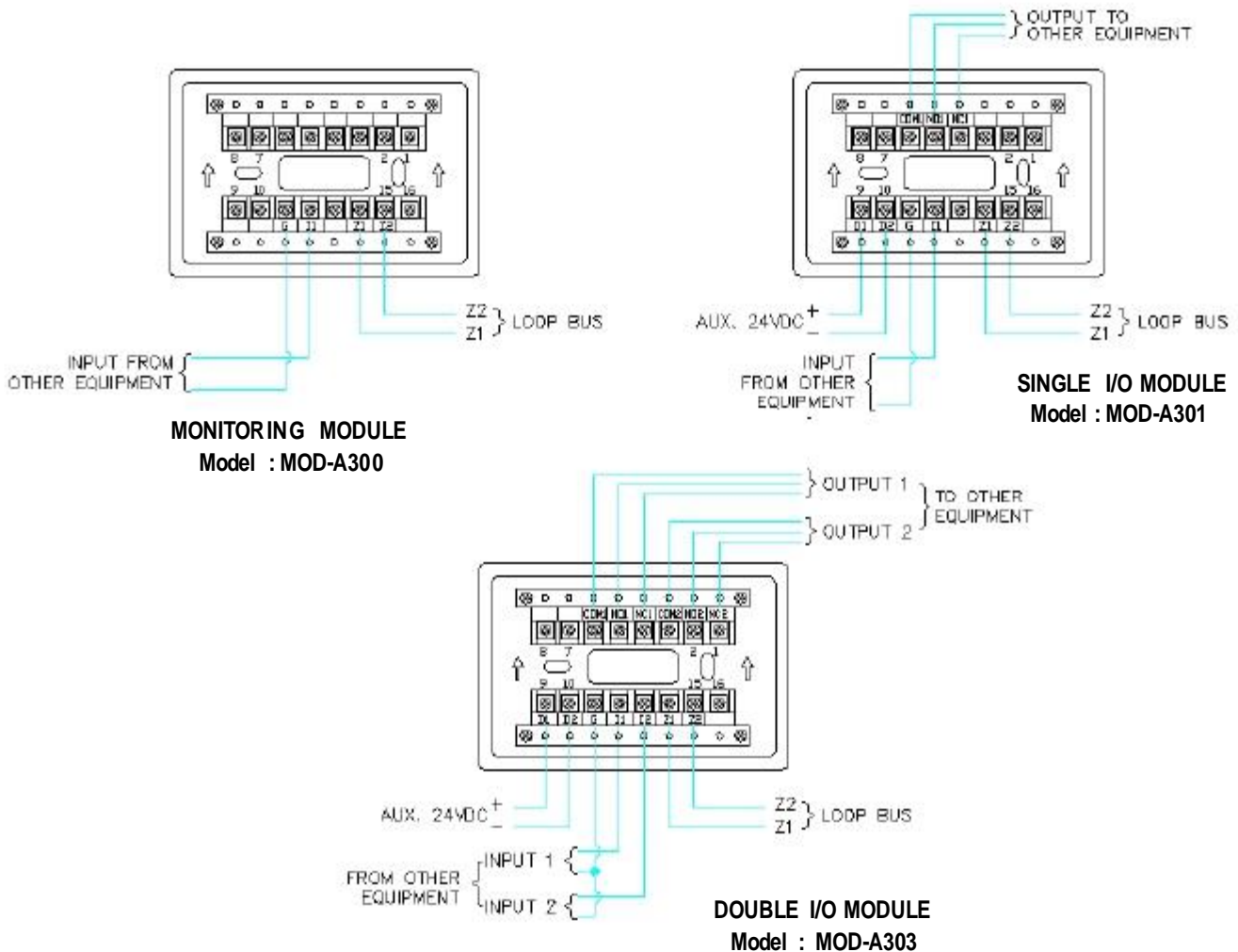


Side View

Technical Specifications

Type of Module		MOD-A300	MOD-A301	MOD-A303
Operating Voltage	Operating Voltage	Loop 24V		
	Loop Voltage Range	16V ~ 28V		
	Auxiliary Power	-	24VDC	
	Aux. Power Voltage Range	-	20VDC ~ 28VDC	
Operating Current	Operating Current	Loop ≤ 1 mA		
	Activating Current	Loop ≤ 2 mA	Loop ≤ 3 mA	
	Aux. Power Standby Current	-	≤ 4 mA	
Output Capacity		-	Passive : 24VDC / 5A	Active : 24VDC / 1A
Output Control Mode		-	Relay N/O and N/C passive output	
Programming Mode		1 address point		2 address point
Indicators	Input Activation	Red LED lighted	-	
	Output Activation	-	Red LED lighted	
Operating Environment	Temperature	-10°C ~ +50°C		
	Relative Humidity	$\leq 95\%$, no condensation		
Dimension		120mm(W) x 80mm(Ht.) x 39mm(D)		
Material and Colour		ABS, Ivory White		
Weight (with base)		Approximate 210 gram		

TYPICAL TERMINATION DIAGRAM



Module Description

Interface Module	Function
Sounder Module MOD-A308	To provide programmable 24VDC output to drive Alarm Bell, Electronic Sounder or Strobe. Interconnecting wiring to the devices will be supervised for fault.
Zone Module MOD-A319	To interface with Conventional Devices, eg. Flow Switches, Detectors, etc... for transmit the alarm signal to the Panel. Interconnecting wiring to the devices will be supervised for fault.
Loop Isolator MOD-A503	To Isolate a section of the Detection Loop in the event of a short circuit fault, allowing other parts of the Loop to operate normally. Reset automatically once fault is cleared.

The Addressable Modules are used as interfaces between the Addressable Alarm Panels and other Devices that form part of the Fire Alarm System for function as mentioned on the left.

With proper selection of suitable Modules to be used, each Module will have an individual 'Address', and could be easily programmed for its intended usage.

The Modules are compatible with all **PINACO** range of Addressable Fire Alarm Panels.



**Sounder Circuit Module
Model : MOD-A308**

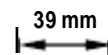


**Zone Module
Model : MOD-A319**

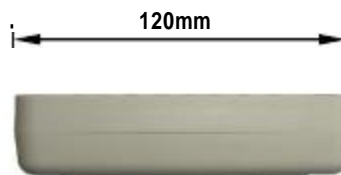


**Loop Isolator
Model : MOD-A503**

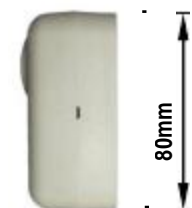
Typical Dimension



**Typical Mounting Base
c/w Screwed Terminals**



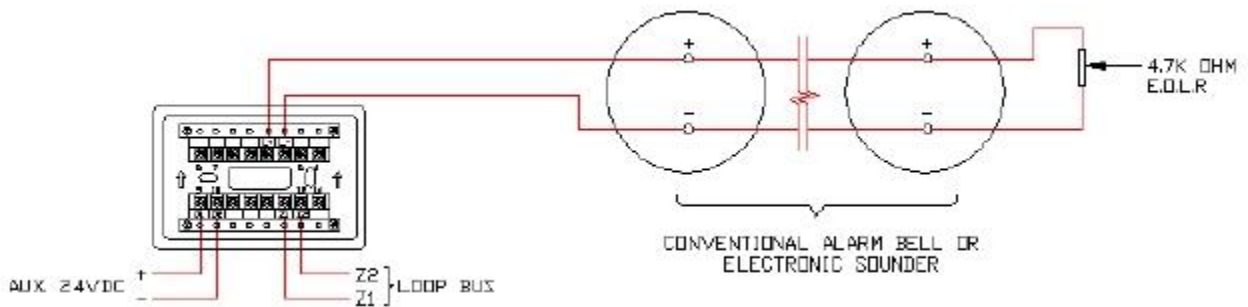
Plan View



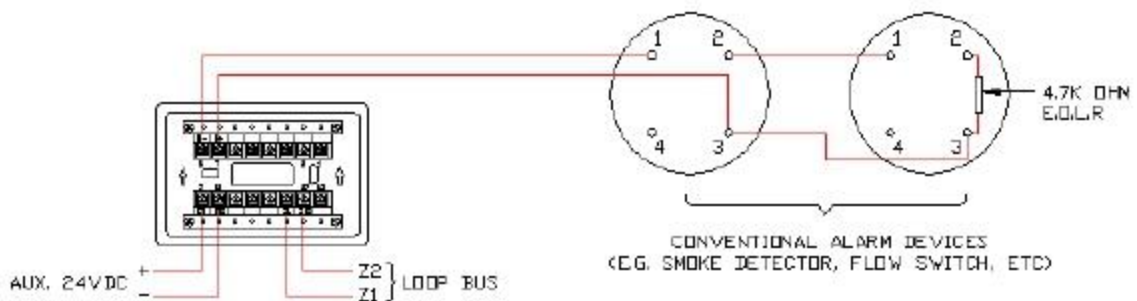
Side View

Technical Specifications

Type of Module		Sounder Module MOD-A308	Zone Module MOD-A319	Loop Isolator MOD-A503
Operating Voltage	Operating Voltage	Loop 24V		
	Loop Voltage Range	16V ~ 28V		
	Auxiliary Power	24VDC		-
	Aux. Power Voltage Range	20VDC ~ 28VDC		-
Operating Current	Operating Current	Loop ≤ 1 mA	Loop ≤ 0.5 mA	≤ 1 mA
	Activating Current	Loop ≤ 4 mA	Loop ≤ 5 mA	≤ 15 mA
	Aux. Power Standby Current	10 mA		-
	Max Output Current	500 mA	-	-
Programming Mode		2 address point	1 address point	-
Recommended Detector Capacity		NA	Smoke Detector : 20 pcs Heat Detector : 40 pcs	NA
Indicators	Alarm	Red LED Lighted	Red LED Lighted	-
	Fault	Yellow LED Lighted		Red LED Lighted
Operating Environment	Temperature	-10°C ~ +50°C		
	Relative Humidity	$\leq 95\%$, no condensation		
Dimension		120mm x 80mm x 39mm		
Material and Colour		ABS, Ivory White		
Weight (with base)		Approximate 210 gram		

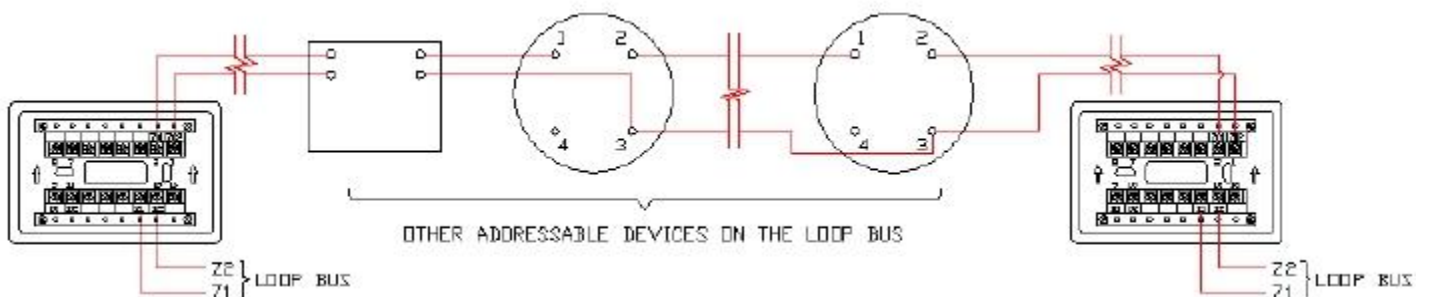


**TERMINATION DIAGRAM BETWEEN SOUNDER CIRCUIT MODULE (MOD-A308)
AND CONVENTIONAL ALARM BELL OR ELECTRONIC SOUNDER**



**TERMINATION DIAGRAM BETWEEN ZONE MODULE (MOD-A319)
AND CONVENTIONAL DETECTOR (DET-C102 / DET-C103)**

Note : Based on International Code of Practice, Area of coverage per Zone should not exceed 2000 sq. metre



TERMINATION DIAGRAM FOR LOOP ISOLATOR (MOD-A503)