

PERTRONIC INDUSTRIES Pty Ltd

Alarm Acknowledge Module (AAM)

- Installation Instructions



Overview:

The **Alarm Acknowledge Module (AAM)**, used in conjunction with the F120, simplifies installations that require an Alarm Acknowledgment Facility (AAF) or Alarm Investigation Facility (AIF) as outlined in AS4428.1-1998 inc Amendment No. 1.

The **AAM** is simply connected to the analogue address loop, and it does not require supplementary power or connection to local detectors; thus, wiring complexity and cost are reduced.

Two selectable tones are provided, and a volume control allows up to 20dB sound level adjustment.

The **AAM** may be mounted in a standard single-gang electrical flush or surface box fitting.



Specification:

Dimensions:

117 x 74 x 45 (H x W x D (mm) not including back box), designed to fit into a standard electrical surface or flush box.

Panel Compatibility:

F120A v4.00 firmware or later code.

Loop Input/Output:

Used for connection to the F120A analogue loop.

Standby current: 1.2mA @ 17V (average loop voltage).

'Alert' current: 6.5mA average, 10mA peak @ 17V, max volume.

'Evac' current: 4.8mA average, 9.2mA peak @ 17V, max volume.

Each **AAM** uses only one input module loop address.

Addressing:

Button Operation:

If the Button is pressed for longer than 1 second, an Active event is generated.

Short Circuit Isolator Link:

LK2 is used to bypass the inbuilt short circuit isolator.

Poll Led:

Flashes when AAM is polled by F120A

Isolate Led:

Illuminates when inbuilt short circuit isolator is active

Sounder Operation:

The sounder is operated via mapping at the control panel to the address of the module.

Tone Select Link:

LK1 is used for selecting the tone. LK2 is unused at present and should not be fitted.

Tone Selection

LK1	Tone Generated in Alarm
Not Fitted	ISO8201 T3 Evacuation Tone
Fitted (default)	Alert Tone

Sound Level Output:

Sound pressure level at 1m (peak \pm 3dB).

Alert:

83dBA at max volume, 64dBA at min volume.

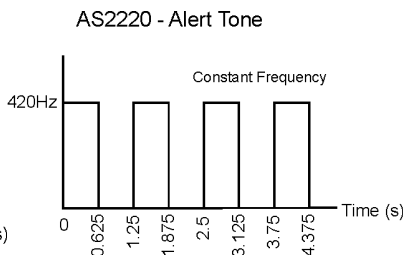
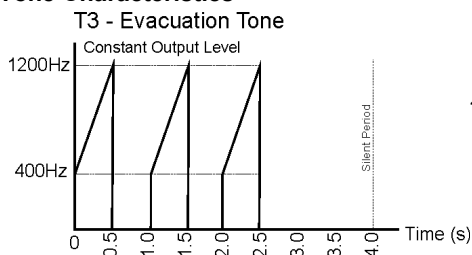
T3 Evac:

86dBA at max volume, 74dBA at min volume.

Volume Control:

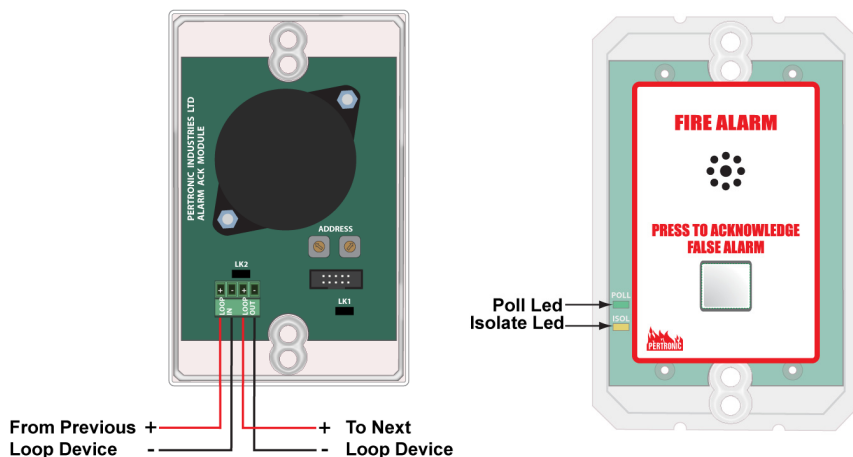
Potentiometer to adjust sound output level.

Tone Characteristics



Connection Diagram:

The Panel Loop circuit connects to the **AAM** as shown below. The 'Loop In' terminals + and - connect internally to the corresponding **AAM** Loop Out + and - terminals. The Loop Out terminals are used for connecting the Loop cable to the next device.



Typical Setup

1. Wire the 2-core loop cable from the previous analogue loop device to the Loop In terminals.
2. Wire the 2-core loop cable from the Loop Out terminals to the next analogue loop device.
3. Set the address switches of the module to the required address (1 to 99).
4. Ensure Link LK1 is fitted for the Alert tone in the event of an alarm (default).
5. Program the control panel accordingly, and test.
6. Adjust the volume of the tone as required.
7. Fit the module to the available surface or flush electrical box using the two screws provided.
8. Fit the module cover plate by simply pushing firmly into place.

Note: Details on the programming are included in the F120 Manual.

Operation

When a non-brigade-calling smoke alarm occurs within the apartment, the F120 Panel commands the **AAM** to operate its sounder through mapping to the input module address. Occupants have a predetermined time to acknowledge the alarm by pressing the 'Press to Acknowledge False Alarm' Button, which sends an active event to the panel from the input module. If the button is not pressed before the time expires and the detector remains in alarm, the panel will start the configured evacuation process and automatically call the Fire Brigade. If the smoke alarm is acknowledged within the time period, the sounder is silenced by the panel, and a second predetermined time period is started, giving the occupant further time to 'investigate' the alarm. This timer is a one-time action controlled solely by the panel, and cannot be reinitiated by the user.. If the alarm is not rectified within the second time period, the panel reactivates the sounder, and the panel starts the programmed evacuation process and automatically calls the Fire Brigade.

Product Codes:

Product Code	Description
AAM	Alarm Acknowledge Module