PERTRONIC INDUSTRIES LTD

DATASHEET

Apartment Module

AM-3, AMH-3

Overview

The Pertronic analogue addressable (AA) Apartment Module reduces the complexity of NZS 4512 Type 5 fire alarm systems.

The Apartment Module incorporates:

- One conventional detection zone circuit capable of supporting up to:
  - 15 System Sensor 100 Series or 300 Series Photoelectric Smoke Detectors, and
  - A total of 50 Pertronic indicating heat detectors and Pertronic indicating manual call points.
- A supervised analogue addressable relay capable of switching 100 volt rms audio signals
- One isolator relay
- Internal and external hush button facility with adjustable hush time delay

The module triggers a local (non-brigade calling) alarm if any connected smoke detector is activated. Activation of a connected heat detector or manual call point initiates a global alarm. (Note that any smoke detectors not connected to an apartment module may be configured to initiate a global alarm.)

Analogue addressable or conventional smoke detectors can be used with the Pertronic Apartment Module.

The module is compatible with Pertronic F220, F100A and F120A analogue addressable fire panels.

Pertronic Apartment Module (AMH-3) with integral hush button.
(Left: with cover. Right: cover removed)

Pertronic Apartment Module (AM-3). Supports a remote hush button.
(Left: with cover. Right: cover removed)

Features

- Analogue addressable module for NZS 4512 Type 5 fire alarm systems
- Can be used with conventional or analogue addressable smoke detectors
- Compatible with Pertronic F220, F100A, and F120A analogue addressable fire panels
- Maximum 45 Apartment Modules per analogue addressable loop circuit (see note 1)
- Built-in loop isolator
- Integrated within a PDL 600 Series flush plate
- Supplied with a white cover plate
- All controls and indicators are accessible by removing the front cover plate. There is no need to detach the apartment module from the wall or ceiling for servicing

Specification

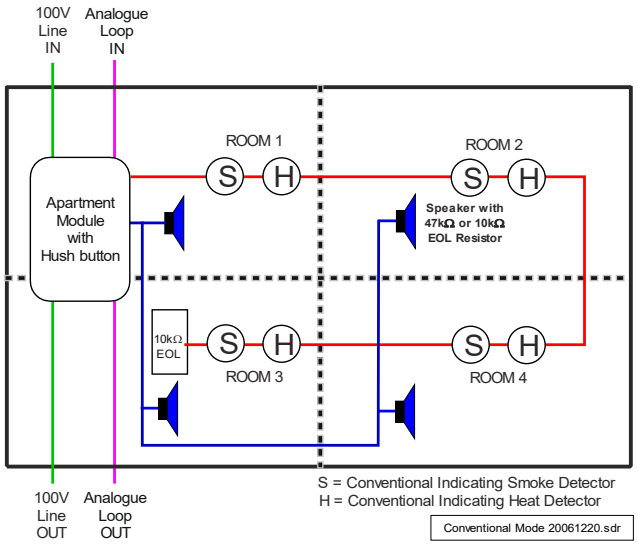
Operating Voltage		Loop-powered 15 to 32 V dc
Current	**Quiescent**	7 mA @ 24 V dc
	Alarm	18 mA @ 24 V dc
Speaker Output		0.5 A @ 100 V rms (resistive) 2 A @ 24 V dc (see note 2)
Hush Period Configurable		30 seconds to 5 minutes
Loop Addresses		Two One for conv. detection zone One for sounder control
Panel Compatibility		F220: all F120A: Firmware > 3.14 F100A: Firmware > 4.54
Dimensions		117 x 74 x 12 mm (H x W x D)
Weight		150 g
Housing Material		ABS
Colour		White
Operating Temperature		0 °C to 40 °C
Humidity		≤ 95 % RH non-condensing

Notes:

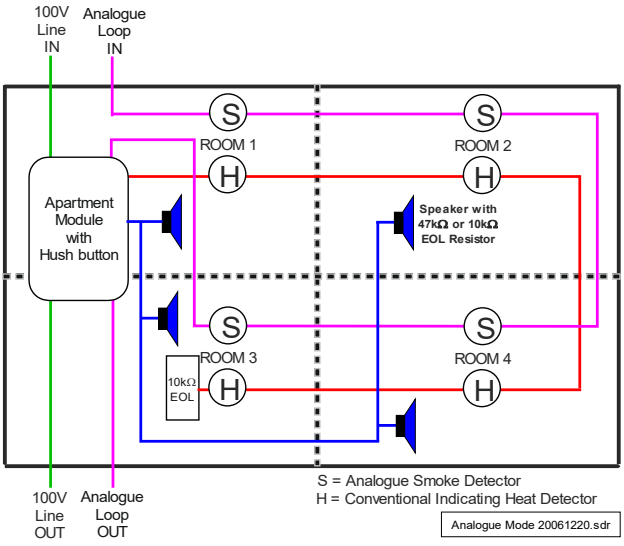
1. The maximum number of apartment modules per loop is limited by the current capacity of the analogue addressable loop. The total loop current must not exceed 350 mA. This includes the current drawn by analogue addressable devices including apartment modules; and in addition, the current drawn by devices such as detectors and manual call points connected to modules such as apartment modules. Please refer to Apartment Module Technical Manual for more information.
2. The supervised speaker output is suitable for 100 volt line evacuation speakers up to 50 watts rms.

Connections

Conventional Smoke Mode

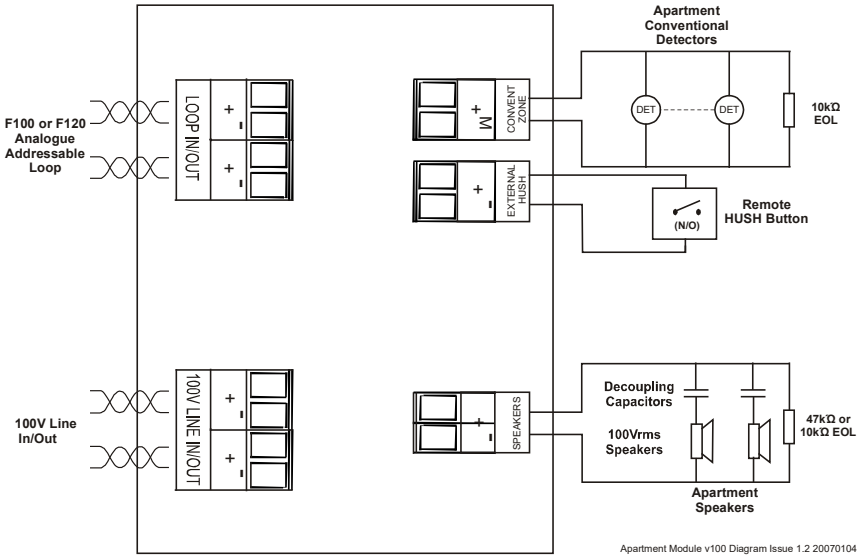


Analogue Addressable Smoke Mode



Apartment Module PCB Layout

Front View



Rear View

Ordering Information

Product Code	Description	FPANZ Listing No
AM-3	AA Type 5 Apartment Module – Non Hush	PI/635
AMH-3	AA Type 5 Apartment Module with Hush Button	PI/636
AMRH	Remote Hush Button	
PSSB401	Pertronic Speaker with B401 Conventional Base	PI/642
PSSB501	Pertronic Speaker with B501 AA Base	PI/643
PSS1-R	Pertronic Sounder Speaker, 1 W Flush - Red	PI/641
PSS1-W	Pertronic Sounder Speaker, 1 W Flush - White	PI/641
PSSB524IEFT	Pertronic Speaker with B524IEFT Isolator Base	