

## MZAOV<sup>®</sup> 3 amp automatic opening vent control panel

MZAOV-1001A is a single detection zone, non extendable, smoke vent control panel with integral 3 amp power supply, designed to control 24vdc actuators or magnets.

The panel has battery backup capability and assures that actuators can be powered in the event of a mains failure.

Vent controls and indications are provided on the front of the control panel with a large graphical LCD display and integral control inputs to accept signals from remote contacts, smoke detectors and manual controls.

Optional support for Rain Sensor and PIR inputs for environmental control and trap injury protection, plus O/10v inputs and outputs to allow control interfacing with BMS systems and positional control Act output.

The MZAOV control panel range has been developed to provide a comprehensive solution to smoke vent control scenarios.



## Features

### Main Features

- 3 amp integral PSU
- Large graphical display
- Easy to program
- Single detection zone, Conventional or Twin-wire
- Input from other detection systems, to activate
- Monitored Actuator output for controlling smoke vents
- Switch input to control wide combination of vents
- Fireman switch input to override all other inputs
- All inputs and actuator outputs monitored for Short and Open Circuit
- User switch inputs configurable as local fireman switches
- Thermostat input - Ventilation mode. Vents openable in 10% steps
- Optional support for Rain sensor, PIR and BMS control
- Monitoring of unused inputs and outputs can be disabled

### Technical specifications

Enclosure	1.2mm Mild Steel IP30. Colour ref: MW334E Interpon powder coat
Cable Entry	Via 20mm knockouts located in the top and rear of the cabinet
Dimensions	Back box: 375mm W x 345mm H x 110mm D Lid: 382mm W x 354mm H x 25mm D
Mains Supply	3A internal switch mode power supply, Nom 27v DC
Battery Capacity	2 x 12Ah 12v VRLA
Detection Zones	Single monitored detection zone. EOL = 6K8
Twin Wire	Selectable in panel (enables AV devices to be connected to det cct)
On Board Relays	1 x Alarm, 1 x Fault, volt free changeover, Max 3A
Fireman's Switch Input	Fireman's control switch input for Open/Close/Auto
Vent Control Input	Vent control switch input, Open/Close (rocker switch)
Actuator Output	Reversal actuator control output (2.5A total max) can be configured as a maintained output for a magnetic door
Aux Output	1 voltage free normally open relay contact, closing when the associated zone is activated, Max 3A
BMS Connection	O/10v positional control input 10% steps, O/10v positional data output. (Available on separate PCB)
False Alarm Management	Type A, B and C dependency mode, approved by LPCB

### Models

MZAOV-1001A	3 amp AOV control panel. Single zone, non extendable
MZAOV-3002	PIR, rain sensor and BMS add on card

# Specifications

## Electrical Specification Inputs & Outputs PSU Card

SWITCH OP C CL	3-way fireman's switch input	
FIRE C NC NO (Common Fire relay)	Alarm relay contact. Clean C/O. Max 3A at 30VDC	
28V +, 0V -	28VDC supply output for fire alarm accessory relays, etc. Max. continuous use 400mA, fused at 500mA	
SNDR 1/SNDR 2 + -	28VDC polarity reversal monitored sounder outputs to fire alarm devices. 6K8 Ohm 5% 0.25W EOL resistor	
FAULT C NC NO (Common Fault relay)	Maintained fault relay contact. Clean C/O Max 3A at 30VDC	

## Electrical Specification Inputs & Outputs AOV Card

ZONE 1/ZONE 2 + -	Fire alarm zone circuit. Conventionally wired detection circuit or Twin wire combined detection/sounder circuit, monitored via a 6K8 Ohm 5% 0.25W end-of-line resistor	Monitoring current limit is 50mA, fused at 500mA. Typical max load 22 devices, at 18mA each, in each zone circuit
INPUT 1/INPUT 2 + -	Alarm activating input, 2K7 alarm. 6K8 Ohm 5% 0.25W EOL resistor	Monitoring current limit 14mA, unfused
ACT1/ACT 2 + -	Dual polarity reversal actuator drive outputs, 28VDC. Max 7 amps	
SWITCH 1/SWITCH 2 + -	Local vent control switch inputs	

## Electrical Specification Inputs & Outputs Optional Add On Card

BMS 1/BMS 2 0 IN OUT	Building Management System positional voltage input, 10% steps of motor time	Max 10VDC, 75KΩ impedance
Rain +/-	Rain sensor signal input. 2K7 alarm. 6K8 Ohm 5% 0.25W EOL resistor	Monitoring current limit 14mA, unfused
12V +/-	12VDC supply output for PIR power	12VDC, fused at 100mA resettable fuse

## General Specification

Temperature range	-5 deg C to +40 deg C
Number of conventional/Twin Wire detection circuits	1
Conventional/Twin Wire detector compatibility	Apollo: S65, Orbis. / Hochiki CDX. / Nittan EV etc
Mains supply	230VAC +10% / -15%, 50Hz max current 1.2 Amp
Power supply rating	3 Amps total including battery charging
Min/max battery size and type	2 x 12 Ah 12volt VRLA Yuasa NP range