



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/IOv 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	0/10v positional control input 10% steps, 0/10v 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 +, OV -	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	