

MZAOV[®] 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.

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
- 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
Inrush Current	20A for an interval of 2 seconds
Aux Output	1 voltage free normally open relay contact, closing when the associated zone is activated, Max 3A
False Alarm Management	Type A, B and C dependency mode

Models

MZAOV-1001A	3 amp AOV control panel. Single zone, non extendable
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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 + -	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 + -	Alarm activating input, 2K7 alarm. 6K8 Ohm 5% 0.25W EOL resistor	Monitoring current limit 14mA, unfused
ACT1 + -	Dual polarity reversal actuator drive outputs, 28VDC. Max 7 amps	
SWITCH 1 + -	Local vent control switch inputs	

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	