

# AOV

## AUTOMATIC OPENING VENT CONTROL PANEL



A single zone smoke vent control panel designed to control 24vdc actuators or magnets. Typically used in staircase lobbies, corridors or smoke extract shafts.

The panel has battery backup capability and assures that actuators can be powered in the event of mains failure. 3A, 5A & 10A PSU versions are available for controlling small, medium and larger loads.

Vent controls and indications are provided on the front of the panel with integral control inputs to accept signals from remote contacts, smoke detectors, manual controls and emergency push buttons.

The high spec versions also include Rain sensor and PIR inputs for environmental control & trap injury protection, plus 0/10v inputs and outputs to allow control interfacing with BMS systems and positional control of dampers / smoke louvres.

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



## Features at a glance

- Single zone conventional or Twin Wire
- Remote input
- Vent status indications & controls
- Vent control switch inputs (open/close)
- Fireman's control switch inputs for on/off, auto setting
- 3A, 5A or 10A integral PSU
- 1A magnetic aux control output
- False alarm mode
- Disable & test modes
- Rain sensor input (high spec version)
- PIR sensor input (high spec version)
- 0/10V positional control input (high spec version)



Designed to comply with:  
EN1210 - 9 & 10 : 2005  
Smoke and heat control systems

Models	Description
AOV-3	3A AOV control panel std spec
AOV-5	5A AOV control panel std spec
AOV-10	10A AOV control panel std spec
AOV-3H	3A AOV control panel high spec
AOV-5H	5A AOV control panel high spec
AOV-10H	10A AOV control panel high spec

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## Compatibility

Haes panels support an extensive range of conventional fire detectors, including Apollo, Hochiki & Nittan.

Twin Wire mode requires special, 'Sav-Wire' detector bases and polarised, 470Ω call points.

### Main Features

- 3, 5 or 10 Amp PSU/ battery charger
- Space for up to 3.2Ah batteries (AOV-3)
- Space for up to 12Ah batteries (AOV-5/10)
- 1 Amp magnetic vent control output
- 1 x 5A timed polarity reversal actuator control outputs (AOV-3)
- 2 x 5A timed polarity reversal actuator control outputs (AOV-5/10)
- Alarm relay change over contacts
- Fault relay change over contacts (fail safe)
- Trigger input (monitored)
- Smoke detector input (conventional or Twin wire operation)
- False alarm mode
- Vent control switch inputs , Open / Close
- Fireman's control switch inputs for On/ Off, Auto setting.
- Disable & test modes
- Vent status indications & controls on front
- 12v dc output (100ma) for PIR power

### Additional Features for High Spec Version

- Rain sensor input (monitored)
- PIR sensor input (monitored)
- 0/10 V Positional control input 10% steps
- 0/10v Positional data output

### External Indications

- Vent Open
- Vent Closed
- Trigger Status
- Detector Status
- Supply Healthy
- General Fault
- General Alarm
- Disabled
- Test Mode
- Rain Sensor Status
- PIR Status
- PSU Fault
- System Fault
- Access Status

### External Controls

- Keyswitch or code entry 'activate controls'
- Colour coded buttons for controls and programming
- Button functions:
  - Open Vent
  - Close Vent
  - Reset
  - Code entry keys 1, 2, 3, 4

### DIL Switch Selectable Options

- Invert magnetic vent output
- Actuator power to continuous mode
- Set smoke to Twin Wire mode
- BMS 0/10v control

### Programmable Options

- Set access code
- Input circuit options
- Latching
- Short circuit to activate
- Detector removal monitoring
- False alarm mode selection
- Actuator time setting, 10 to 150 seconds
- Disable battery monitoring

### Cabinet

- Mild steel, lockable, 20mm knockouts
- Colour ref: Radon MW334E Interpon powdercoat

#### AOV-3

- Back box = 300mmW x 250mmH x 80mmD
- Lid = 308mmW x 260mmH x 23mmD
- Max battery size = 2 x 3.2Ah, 12v, SLA

#### AOV-5/10

- Back box = 450mmW x 300mmH x 110mmD
- Lid = 460mmW x 310mmH x 25mmD
- Max battery size = 2 x 12Ah, 12v, SLA



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