

System 10AF

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System 10AF

Smart solutions for demanding applications.

Advanced Air's System 10AF Panel – modular design for up to 48 dampers with flexible setup options, reducing field wiring and cable runs for efficient installation.

- Hard-wired system
- Controls up to 48 fire & smoke dampers
- 230V or 24V damper output
- Up to 30 alarm inputs
- Individual damper indication for open/closed
- BMS high level interface



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The Advanced Air System 10AF Panel comes in four damper sizes, controlling 12, 24, 36 or 48 dampers. The system architecture is modular – each set of 12 dampers will have its own control panel.

The separate control panels can be bolted together on site to give a more traditional single location panel or left as individual sections to allow for distributed system design. Meaning that the panels can be located to reduce the amount of field wiring and cable runs.

Each section comes with its own power isolator to enable targeted isolation for servicing. This means that only the section being worked needs to be isolated and leaves critical areas operational while maintenance is taking place.

With the panels distributed, there will be a primary panel that will have the indication for all dampers. The primary panel should be connected to secondary panels on the system via Cat 5/6/7 ethernet connection (RJ45 plug), this will be the communication link between all panels to allow for status information to be shared as well as alarm and other inputs to be shared.

Additionally, a remote indication panel can be fitted simply by converting a secondary panel to a primary panel. This will then repeat the status of all dampers connected.

General fault and alarm relays are located on all panels, general fault being a new feature on this system. Additionally System 10AF also has a high level Modbus RTU connection to give open and closed status of each damper to the BMS – a first for a hard-wired damper system.

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Power

- Supply power – 230V AC per section.
- Output power – 230V AC / 24V AC dependent on motor voltage.

Casing

- Material – mild steel case with ABS outer door.
- Finish – textured polyester powder coated finish.
- Colour – black.
- Size – primary panel
H500 x W500 x D300mm.
- Size – two panels
H500 x W1,000 x D300mm (side-by-side).
H1,000 x W500 x D300mm (stacked).
- Size – three panels
H1,000 x W1,000 x D300mm (arranged in L-shape).
- Size – four panels
H1,000 x W1,000 x D300mm (arranged in square).
- Power On indication per panel
- Lamp test button on primary panel and each additional panel.
- Individual damper indication.
- Surface or flush mounting option.

Connectivity

- 30 system inputs.
- BMS hard-wired inputs – General Fault and General Alarm.
- BMS high level Modbus RTU interface.
- Optional battery backup.
- Programmable cause and effect.

Compliance

- CE, LVD and EMC compliant.
- BS 7346 Part 8 compliant.
- Panel wiring compliant with BS EN 60204..

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Dimension data

