

Actionpac EMS – Standard

Control and Monitoring System

Features

Standard Modular Design.

Simple Fire/Smoke damper control and monitoring.

Wall mounted enclosure to IP55.

Finished in RAL 7035.

Vinyl overlay facia.

Standard Zonal control.

Individual Monitoring of Reset and Release status.

Top cable gland entry.

Fire interface required per zone.

BMS common fault relay output, per panel.

Screwless cable terminals.

Test/Normal/Override Keyswitch.

Keyswitch Mains Isolator.

Lamp Test Button.

Hinged on Right.

● STOCK ITEM.

● 2 Versions (Mode 5 and Mode 6), available in 3 sizes, from Stock.

Panels Designed and Built in Britain.



actionair

Dampers Controls Fancoils

Ruskin Air Management Limited
www.ruskinuk.co.uk

Actionair Actionpac EMS Standard Electro-Mechanical Control and Monitoring System

Introduction

The range of Actionpac Electro-Mechanical Standard (EMS) control panels are designed for the control and monitoring of either Mode 5 (24V) or Mode 6 (230V) PTC damper actuators in groups of 12, 24 or 36.

Damper control modes to be connected to the site wiring, which when installed by the contractors, shall provide the relevant standard functions.

Specification

The Actionair Actionpac EMS panels are of standard construction for the control and monitoring of Mode 5 or Mode 6 PTC damper actuators in groups of 12, 24 or 36 on printed circuit boards.

Each group of 12 dampers are controlled and monitored via separated PCB's, these will be numbered PCB 1 for dampers 1 to 12 and where fitted, PCB 2 for dampers 13 to 24 and PCB 3 for dampers 25 to 36.

The damper control PCB's provide for screwless terminal blocks for all external connections to the dampers, Fire Alarms and BMS Contacts.

Dampers are controlled in zones and monitored individually. Terminals provide for wiring all dampers individually.

The damper status LED indication is provided by indicators PCB's fitted in the door of the panel enclosure. Each indicator PCB provides for 12 PTC Actuators.

Damper locations can be recorded on a

printed label fitted inside the enclosure door.

Each Control PCB provides input terminals to accept 1 or 2 Volt free contact interfaces with the Fire Alarm System per group of 12 dampers (maximum of 6 dampers per zone). These connections should be Normally Closed (NC) going open circuit to indicate an alarm.

In addition each control panel provides a single output terminal to provide a Volt free contact interface with a BMS. This is a changeover contact, which goes closed circuit to indicate either a non-normal or fault condition.

Actionpac EMS, as supplied by Actionair

Features

Dampers control panels are standard manufacture.

Wall mount enclosures to IP55.

Vinyl overlay fascia.

Damper Controlled in zones and individually monitored.

Top cable gland entry.

Fire Interface required per zone.

BMS common fault relay output per panel.

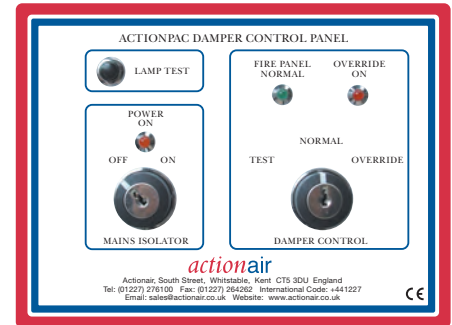
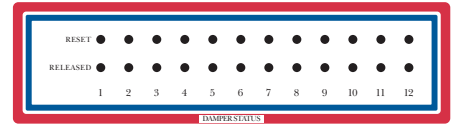
Screwless cable terminals.

Test/Normal/Override keyswitch.

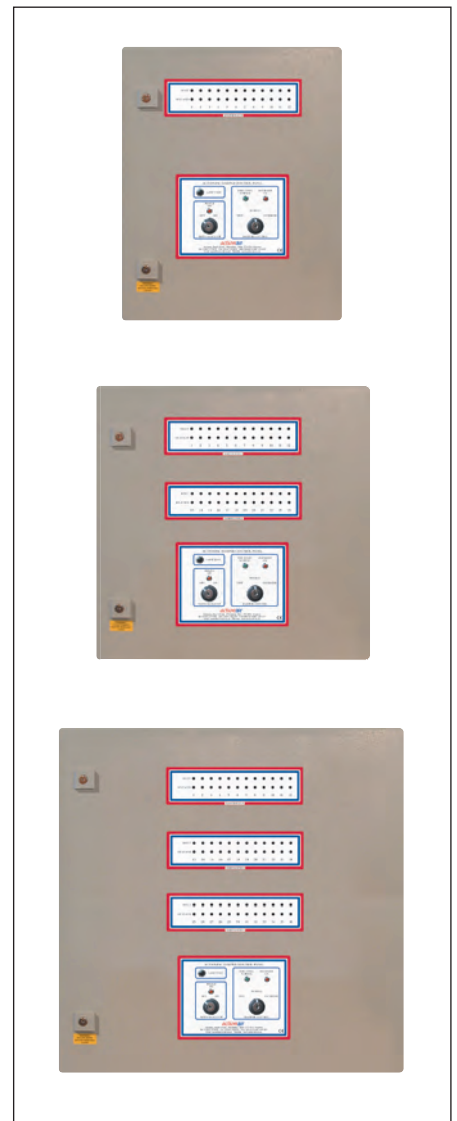
Keyswitch mains isolator.

Lamp test.

Hinged on right.



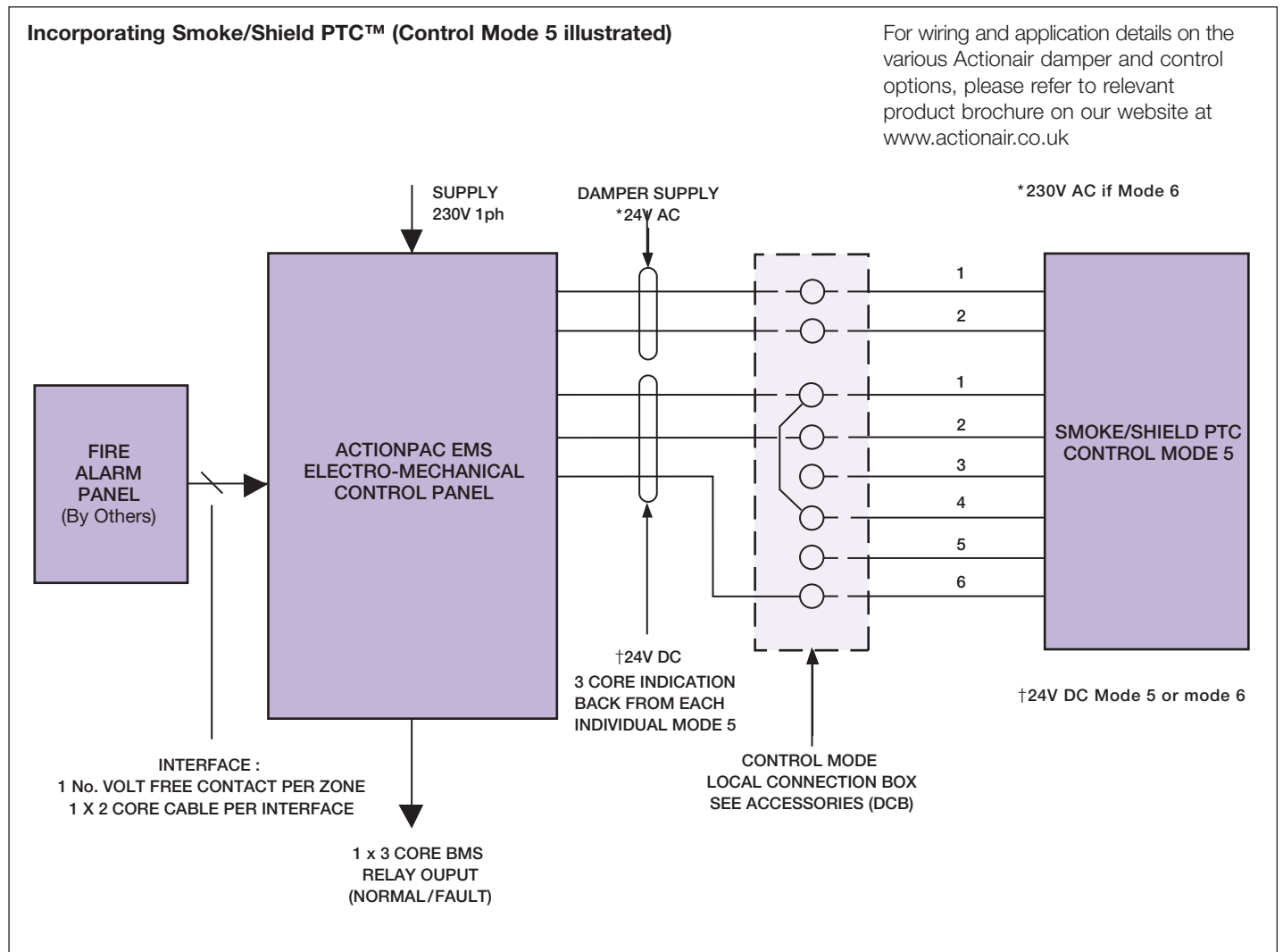
Panel Fascia Detail



EMS Panel Sizes					EMS Panel Weights	
Damper qty	Enclosure size (mm)	Zones	BMS Outputs	Type	Kg	
Type	No.off	W x H x D				
EMS12	1 – 12	400 x 500 x 210	Max 2	Max 1	EMS12	17
EMS24	13 – 24	600 x 600 x 210	Max 4	Max 1	EMS24	29
EMS36	25 – 36	600 x 760 x 210	Max 6	Max 1	EMS36	43

Power Consumption				
Panel Size	Control Mode	Supply out to damper	Panel Supply	Panel Load
EMS12 – 24V	5	24V	230V	1 amp
EMS12 – 230V	6	230V	230V	1 amp
EMS24 – 24V	5	24V	230V	2 amp
EMS24 – 230V	6	230V	230V	2 amp
EMS36 – 24V	5	24V	230V	3 amp
EMS36 – 230V	6	230V	230V	3 amp

Typical Actionpac EMS Electro-Mechanical System Schematic



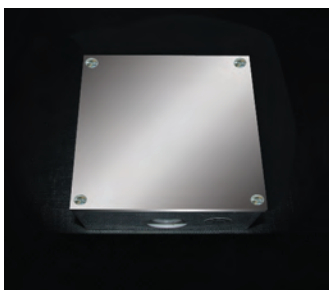
Commissioning

Actionair offers a comprehensive after sales service to include for pre-commissioning checks, complete commissioning service of all our products

in line with and to encompass CIBSE guidelines and planned preventive maintenance visits.

For greater number of dampers, refer to Actionair Actionpac EMB, LNS 60/120, or LNS3 Brochures.

Accessories



DCB Damper Connection Box For Control Modes. (Can be factory prewired to Control Mode, all voltages.)
Size: 100 x 100 x 50mm.

Description	Voltage	Part Number information
DCB	24V – 230V AC/DC	XNNN00312

Other Actionpac Damper Control Systems

Electro Mechanical Systems



EMB – Bespoke

Control and monitoring system.
Actionpac Electro Mechanical Smoke and fire damper control system.
Automatic damper operation utilising relay logic and LED indication of damper status.

Features

Customised central Control Panel.
Individual, or collectively controlled and continually monitored.
Wall mounted enclosure to IP55.
Custom Engraved Traffolyte fascia.
LED indication of damper status.
Zonal inputs.
Door interlocking isolator.
Miniature circuit breaker protection.

Options

Lockable glazed door.
Special paint finish to BS standard colour reference numbers.
Flush mounting flanges.
Latching push buttons.
Fireman's override key switches.
Test Switch.
Lamp Test.
Audible alarm with mute facility.
B.M.S. common fault relay interface.
B.M.S. output.
Delay timers.
Battery backup.

Specialist Panels available

Fan Control Panel.
Fireman's control panel.
Mimic (Repeater) Panel
Fire damper monitor (Indication) panel.

Addressable Systems



Actionpac 60/120

The Actionair Actionpac 60/120 (LNS Standard) System consists of a Panel PC, UPS and pre-loaded software. The system communicates with damper interfaces to provide intelligent control and monitoring of motorised dampers and monitoring of manual fire dampers. The data network cabling enables substantial reduction in costs when compared with conventional systems. The digital inputs and output device (DI804) is accommodated within the panel enclosure.

The Panel PC is supplied with Actionair Actionpac 60/120 (LNS Standard) software and operates on an embedded platform, which is extremely user friendly. The server architecture delivers new benefits such as reduced commissioning time, ease of configuration, simplified operation, full diagnostics for system and device integration along with optional automatic scheduled damper testing.

Note: Actionpac 60/120 is recommend when there are more than 50 smoke/fire dampers to be controlled and monitored. Refer to Actionpac 60/120 (LNS Standard) brochure for full details.



Actionpac LNS3

The Actionpac LNS3 System consists of a Panel PC, UPS and pre-loaded software. The system communicates with damper interfaces to provide intelligent control and monitoring of motorised dampers and monitoring of manual fire dampers. The data network cabling enables substantial reduction in costs when compared with conventional systems. Digital inputs and outputs (DI804) can be accommodated on the network cable or located within the panel enclosure.

The Panel PC is supplied with Actionpac LNS3 software and operates on an embedded platform, which is extremely user friendly. The server architecture delivers new benefits such as reduced commissioning time, ease of configuration, simplified operation, future system growth, full diagnostics for system and device integration along with optional automatic scheduled damper testing.

Note:

Actionpac EMS (Standard) or Actionpac EMB (Bespoke) Systems are recommended for areas where there are less than 50 dampers.

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Ruskin Air Management Limited
is a ISO 9001 and 14001
registered company