

Catalogue

# actionair

ActionpacEMSStandard



## Electro Mechanical Control & Monitoring System



# Actionair Actionpac EMS Standard Electro- Mechanical Control and Monitoring System

## Introduction

The range of Actionpac Electro-Mechanical Standard (EMS 15 and EMS 30) control panels are designed for the control and monitoring of either Mode 5 (24V) or Mode 6 (230V) PTC damper actuators in groups of up to 15 or up to 30.

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

## Product Features

- Standard Modular Design
- Simple Smoke/Fire Damper Control & Monitoring
- Wall Mounted Enclosure to IP20
- Finished in RAL 7035
- Vinyl Overlay Facia
- Standard Zonal Control
- Individual Monitoring of Reset & Release Status
- Top Cable Gland Entry
- Fire Interface required per zone
- BMS common fault relay output per panel
- Test/Normal/Override Keyswitch
- Keyswitch Mains Isolator
- Lamp Test Button
- Hinged on Right

## Stock Item

- 2 Versions (Mode 5 and Mode 6) available in 2 sizes from stock



EMS 15 - 230 Control Panel



EMS 30 - 230 Control Panel

# 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 15 or 30.

Dampers are controlled in zone(s) and monitored individually. Terminals provide for wiring all dampers individually.

The damper status LED indication is provided by indicators fitted in the door of the panel enclosure.

Damper locations can be recorded on a printed label fitted inside the enclosure door.

EMS15 provides input terminals to accept 1 Volt free contact interface with the Fire Alarm System. This connection should be Normally Closed (NC) going open circuit to indicate an alarm.

EMS 30 provides up to 2 Volt free contacts for up to 15 dampers per zone.

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 IP20.
- Vinyl overlay facia.
- Damper Controlled in zone(s) and individually monitored.
- Top cable gland entry.
- Fire Interface required per zone.
- BMS common fault relay output per panel.
- Test/Normal/Override keyswitch.
- Keyswitch mains isolator.
- Lamp test.
- Hinged on Right.

## EMS Panel Size

Damper Type	No. Off	Enclosure size (mm) W x H x D	Zones	BMS Outputs
EMS15	1 – 15	400 x 500 x 210	Max 1	Max 1
EMS30	16 – 30	600 x 600 x 210	Max 2	Max 1

## EMS Panel Weights

Type	Kg
EMS15	15
EMS30	25

## Power Consumption

Panel Size	Control Mod Required	Power Supply to Damper	Panel Supply to EMS Panel	Panel Load
EMS15 – 24V	5	24V	230V	2 amp
EMS15 – 230V	6	230V	230V	2 amp
EMS30 – 24V	5	24V	230V	3 amp
EMS30 – 230V	6	230V	230V	3 amp

## Commissioning

Actionair offers a comprehensive after sales service to include for precommissioning 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 or LNS5 Brochures.

## Accessories

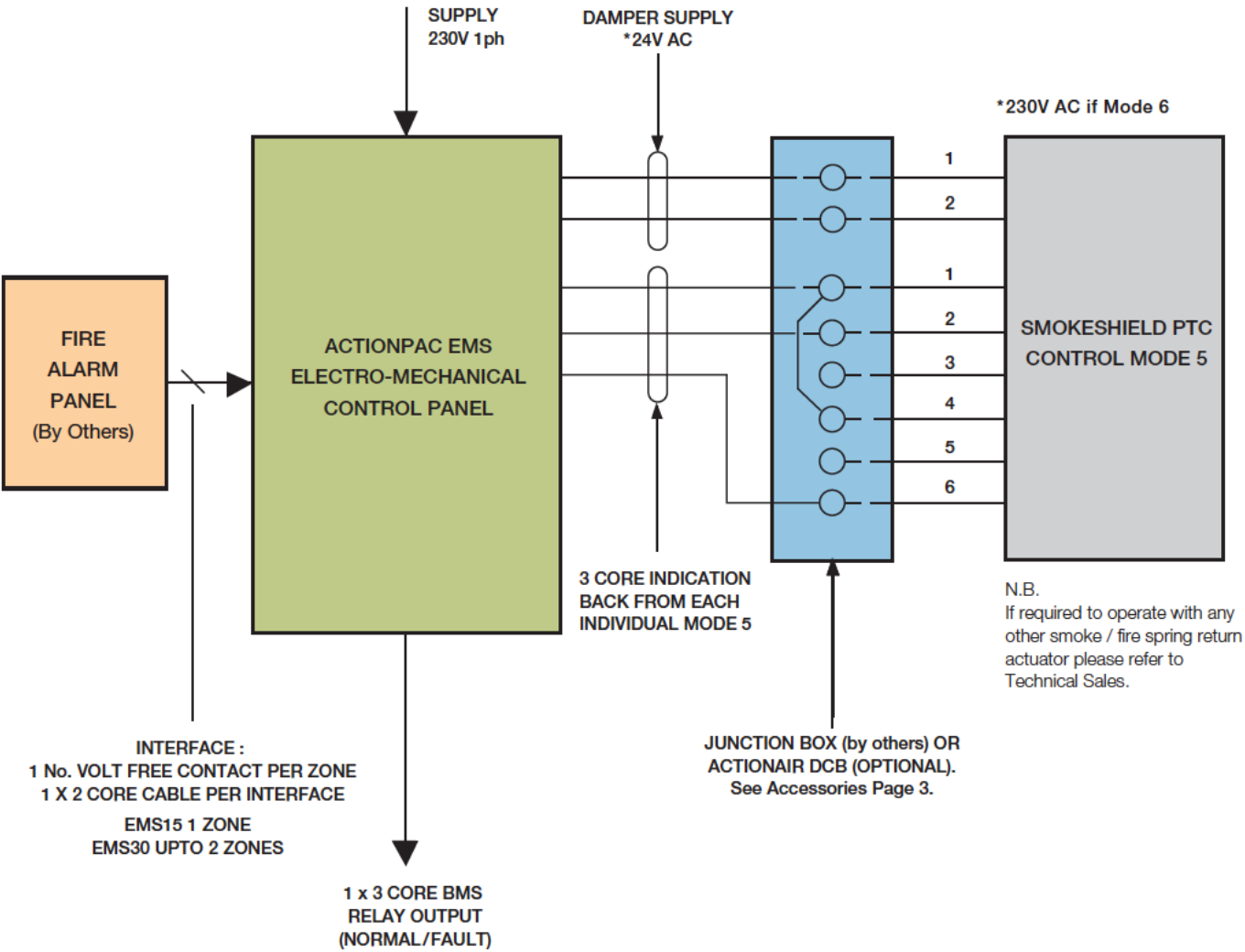


DCB Damper Connection Box  
For Control Modes. (Can be factory prewired to Control Mode, all voltages.)  
Size: 100 x 100 x 50mm.

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

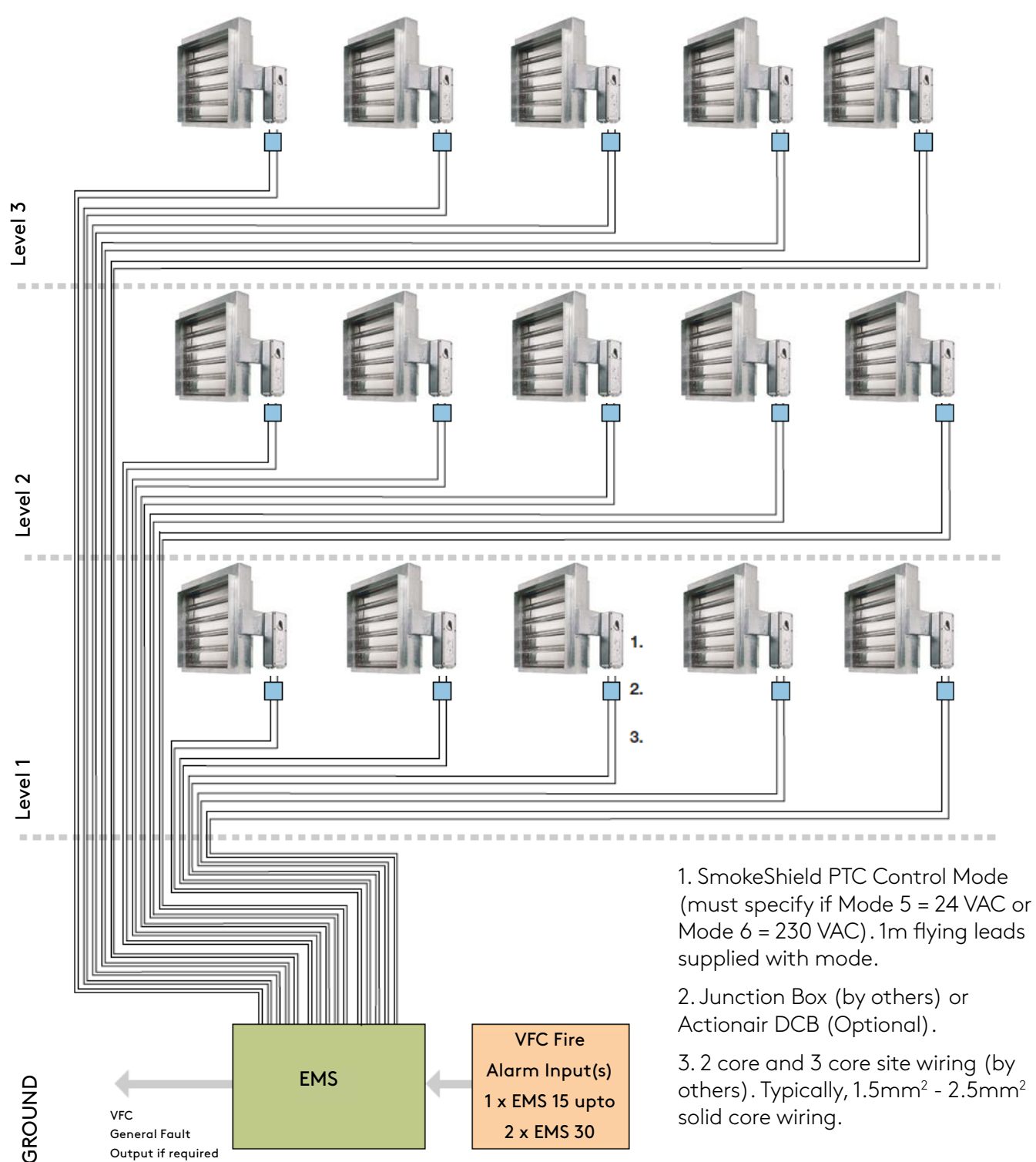
# Typical Actionpac EMS Electro-Mechanical System Schematic

**Incorporating SmokeShield PTC™**  
(Control Mode 5 illustrated)



For wiring and application details on the various Actionair damper and control options, please refer to relevant product brochure on our website at [www.actionair.co.uk](http://www.actionair.co.uk)

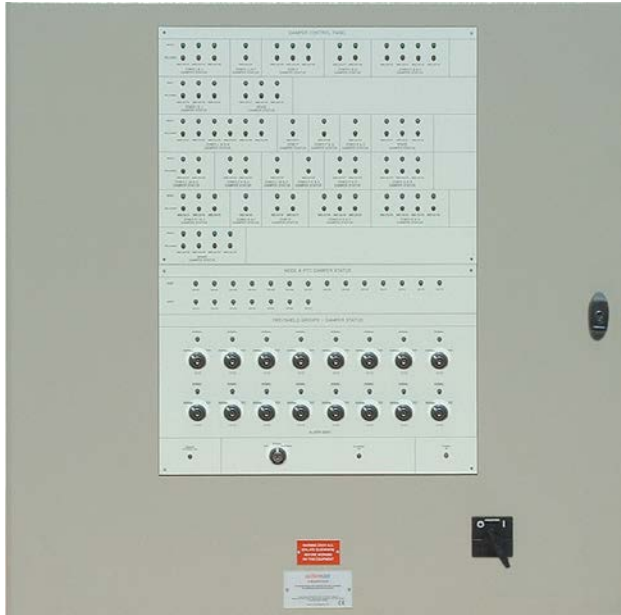
# Typical Network Schematic



# Other Actionpac Damper Control Systems

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## 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.

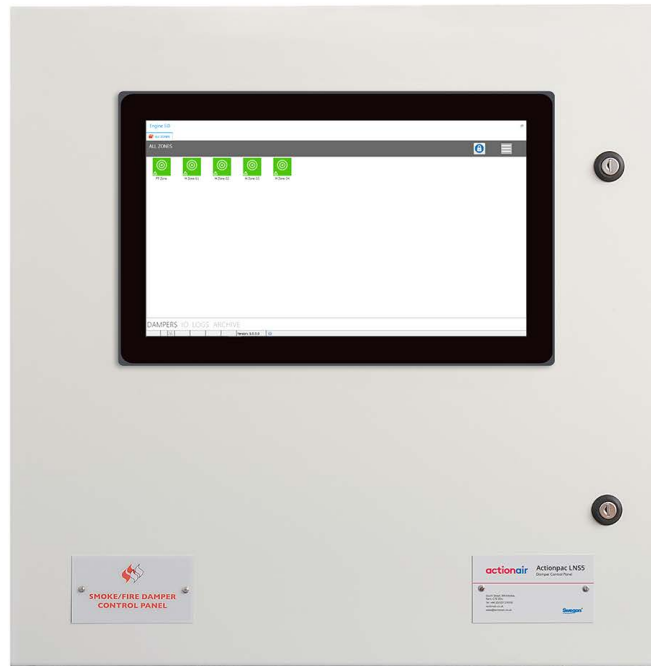
### Note:

**Actionpac EMS** (Standard) for up to 30 Dampers,  
**Actionpac EMB** (Bespoke) less than 45 Dampers.

Our Addressable Systems cater for Damper quantities of 1 – 512 on **Actionpac LNS5**.

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## Addressable Systems



### Actionpac LNS5

The Actionpac LNS5 system represents the latest evolution of damper control. The system has been designed with the user in mind, providing an advanced tool that simplifies installation and commissioning of dampers and peripheral devices. The embedded panel PC operates on an embedded platform and utilises solid state technology for optimum reliability.

It's server architecture delivers benefits such as reduced commissioning time, simplified operation and scope for future growth and flexibility.

**Actionpac LNS5** are recommended when there are more than 30 smoke/fire dampers to be controlled and monitored. Refer to **Actionpac LNS5** brochure for full details.

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Due to policy of continuous product development the specification and details contained herein are subject to alteration without prior notice.