



When it comes to fire and smoke safety in hospital ventilation systems there is one company which has a proven track record...

# Actionair Smoke/Fire Dampers and Control Systems

**Actionair have been the market leaders in this area of life safety offering a complete solution in their market leading Smoke/Shield dampers combined with the Actionpac intelligent damper control and monitoring system.**

This combination offers both the Consulting Engineer and the Hospital facility manager alike a comprehensive solution to the complex control requirements of modern fire safety strategies and a user friendly tool for monitoring and regular testing of smoke/fire dampers. It ensures damper reliability and functionality throughout the life span of a Hospital building.

The Actionpac damper control and monitoring system incorporates a graphical user interface providing live status of all activities with complete clarity of information.

With over 100 projects successfully undertaken, Actionair have built up a wealth of Hospital specific understanding and practical experience which has been incorporated into Actionpac's continuous product development programme insuring Actionpac will continue to meet and anticipate the trends and demands of the future.

## **Intelligent Damper Control**

It is common knowledge that in the event of a fire detection, ventilation shut down and building evacuation is not an option for a hospital, or at least not until all other options have been exhausted. It can be difficult, dangerous and even fatal to attempt to move or evacuate patients and is only considered in extreme cases. It is therefore essential that the intelligent control of dampers to initially contain and control the spread of smoke and fire be used. The source and extent of the fire can



*Actionair  
Smoke/Shield PTC  
Proportional Torque Control  
Automatic Smoke and Fire  
Dampers*

*Actionpac LNS3  
Intelligent Damper Control  
and Monitoring System*



then be established/extinguished and only as a last resort building occupants can be moved or sideways evacuated away from the affected areas. This containment strategy enables the remainder of the building to be kept 'Operational' and with minimal disturbance to patients, staff and the critical work of a busy Hospital.

## **Actionpac**

Unlike conventional control systems Actionpac is unique in that it has practically unlimited capacity to accommodate high numbers of dampers and the complexity of 'cause and effect' scenarios common to hospital projects. Being PC based it can also easily handle 11th hour changes such as additional damper numbers, zones, inputs/outputs, strategies etc, from the PC on site to additional programming required.

## **Routine testing**

Intelligent control is also a critical feature during routine testing, which is now becoming an increasingly important issue, with BS5588 and various insurance bodies strongly recommending six-monthly testing of all dampers. As yet, these are only recommendations; however, new EU legislation currently being prepared will demand frequent testing and certification of all 'life safety' dampers. Without an intelligent control and monitoring system, this will prove to be an extremely costly, disruptive and laborious ask for building and safety managers. Given the potentially fatal consequences of a damper failing to close in the event of a fire, or indeed open to provide smoke extraction, Actionair has always promoted the concept of regular testing to ensure proper damper functionality and has made provision for scheduled, automatic damper testing and logging on the Actionpac system.



## Actionair offer the following Damper Interfaces:

### Damper interface application

SFDI Smoke Fire	Motorised spring return for smoke containment/extraction
3PDI 3 Position	Balanced motorised spring return for smoke extraction
SDI – Smoke	Motorised on/off for smoke containment/extraction
FDI – Fire	Electrical release or monitoring only for fire containment
HDI – Hot	300 °C for 1 hour for smoke containment/extraction

### Standards

Actionair dampers are fully compliant with the latest International, European and BS standards (ISO10294-1, EN1366-2 and BS ISO 10294-1) and the old BS standard BS476 part 20 and are IPCB approved (Loss Prevention Certification Board) meaning 3rd party regular re-assessment/audit testing to ensure quality of product and service are maintained.

Actionpac damper control and monitoring system is CE approved and already meets the proposed new draft BS EN 12101-9 standard for smoke and heat control systems.

**actionair**  
*no compromise...*

#### FOR FURTHER INFORMATION PLEASE CONTACT:

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## Examples of Hospital projects and others with Actionpac Systems

Darent Valley, Dartford  
Royal Gwent Hospital, Wales  
Neptune Building, London  
Neville Hall Hospital, Scotland  
Chorlton New Mill, Chorley  
Rutland Gate, London  
Royal Free Hospital, London  
Air Traffic Control, Shannon  
James Street Apartments, Dublin  
Office of Public Works, Dublin  
Nine Wells Hospital, Dundee  
Dublin Airport, Dublin  
Mary's Abbey, Dublin  
Regional Hospital, Limerick  
European Justice Court, Luxembourg  
British Museum, London  
41 Lothbury (Office Block), London  
John Radcliffe Hospital, UK  
Finsbury Square (Office Block), London  
Prince Philip Hospital, Leeds  
General Hospital, Southampton  
R.A.F. Mildenhall, Suffolk  
140 Aldersgate (Office Block), London  
Queen Elizabeth Hospital, Gateshead  
Dexia Bill, Luxembourg  
UCC Medical Nursing, Cork  
HSB Bootle, Liverpool  
Western Hospital, Scotland  
University Hospital, Southampton