

## HIGH-TECH SOLUTIONS FOR FIRE PROTECTION AND SMOKE EXTRACT



In the event of a fire, personal safety, support of the fire and rescue service, and protection of property are the prime objectives, and they have to be met by an advanced central BMS and an effective safety management concept:

- Detect fires at an early stage and while the temperature is still fairly low.
- Prevent the propagation of fire and smoke to escape routes and surrounding occupied zones by releasing fire and smoke control dampers.
- Automatically activate the smoke extract system.
- Maintain positive pressure in corridors, stairwells, and escape and rescue routes with adequate pressurisation systems.
- Keep escape routes free from smoke to allow people to get to safety.
- Ensure that lifts stop only those floors where no smoke has been detected.

### **Comprehensive safety system.**

Shopping centres are high footfall venues and require sophisticated safety systems with components that are perfectly complementary with one another. With the TROXNETCOM intelligent control system, TROX links fire and smoke protection dampers, smoke control dampers, volume flow controllers, duct smoke detectors, and smoke exhaust and ventilation fans to create a system of superior reliability (SIL2). TROXNETCOM makes sure that the individual system components communicate with one another, while system conditions are monitored and the necessary parameters are adjusted immediately.

TROXNETCOM can also be used with an air handling unit. The AHU display allows system users to track functional tests, for example. Standard communication protocols allow for the seamless integration of TROXNETCOM and higher-level building automation systems. The advantage for specialist consultants: fewer interfaces, less work.

### **Integral fan diagnosis system.**

The integral X-FANS diagnosis system helps to detect any damages at an early stage and hence allows for condition-based maintenance.

### **Type DAX axial fire gas roof fan BV AX:**

When combined with DAX accessories, axial smoke exhaust fans can be used as rooftop smoke exhaust fans. Saving energy is always one of the biggest challenges facing building owners and designers. Roof fans, however, require an opening in the roof of the building through which thermal energy can escape. The Type DAX axial fan features a newly developed casing which is suitable for installation on flat or sloped roofs; it is weatherproof, can resist even strong winds, is thermally insulated and equipped with an actuator-operated shut-off damper. The building envelope remains efficiently sealed such that energy saving ordinances are satisfied.



TROXNETCOM integrates fire protection and smoke extract components into a system and allows for central BMS connection.