

# Fire dampers & controls



# Reliable, efficient and easy to use

## NEPTUNE controls & IGNIS fire dampers

- Flexible functionality, including number of fire zones, dampers and strategies
- Standardized software, configurable to meet your building requirements
- Thousands of installed systems in operation



### NEPTUNE controls

A common central control unit with an integrated embedded computer, accessed via an intuitive touch screen user interface for easy handling. The controls offers flexible setup and programming of the fire zones, while offering surveillance, logging and test reports. Equipped with UPS to manage power outages and peak loads as well as digital input/output module(s). In addition, the NEPTUNE controls can easily be integrated into building management systems via BACnet or Modbus.

### IGNIS dampers

A complete selection of robust circular and square fire dampers that works perfectly with the NEPTUNE controls and are easy to install. Fire protection class EIS 60/90/120.



# Operation principle

## Groundbreaking step

Consultants in the field of fire engineering have long recognised the damage and danger to human life that can be caused by smoke spreading through buildings, even when the fire is confined to a small area.

Smoke/fire protection can save human lives as well as keeping damage to property and contents to an absolute minimum.

Control measures for smoke/fire protection, in old and new buildings, comprise a wide variety of systems and items of equipment that must be carefully integrated in order to ensure maximum safety.

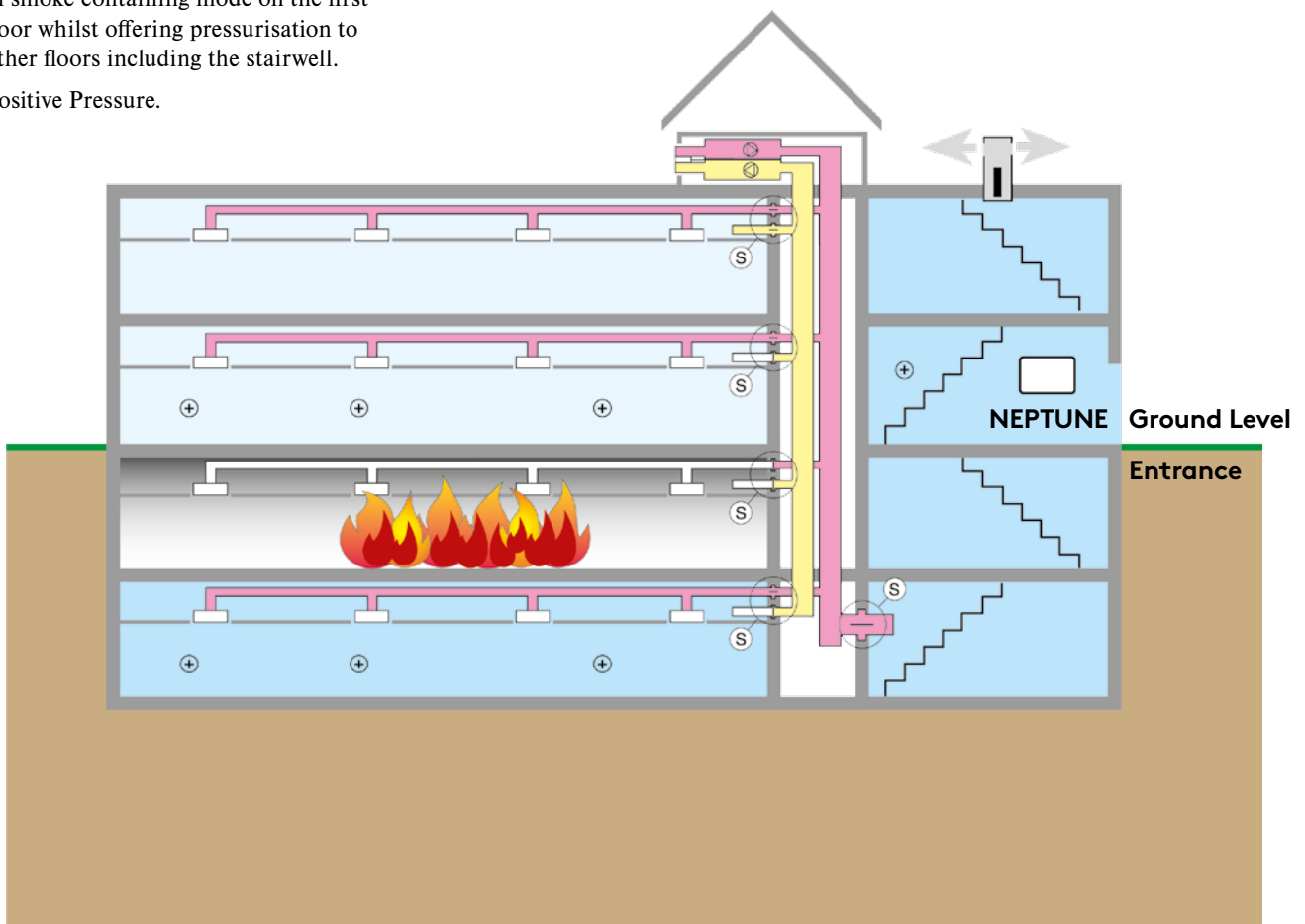
One of the most important tasks is performed by the automatic smoke and fire dampers that are incorporated into HVAC systems. In an emergency they must close immediately to contain the smoke and fire and prevent their spread through the ducting or open immediately to allow smoke extraction to take place.

The NEPTUNE system represents the latest evolution of smoke/fire damper control. The system has been designed with the user in mind, providing an advanced tool that simplifies installation and commissioning of smoke/fire dampers and peripheral devices. The embedded panel controller 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.

Ⓢ Denotes Automatic smoke/fire Damper in smoke containing mode on the first floor whilst offering pressurisation to other floors including the stairwell.

⊕ Positive Pressure.



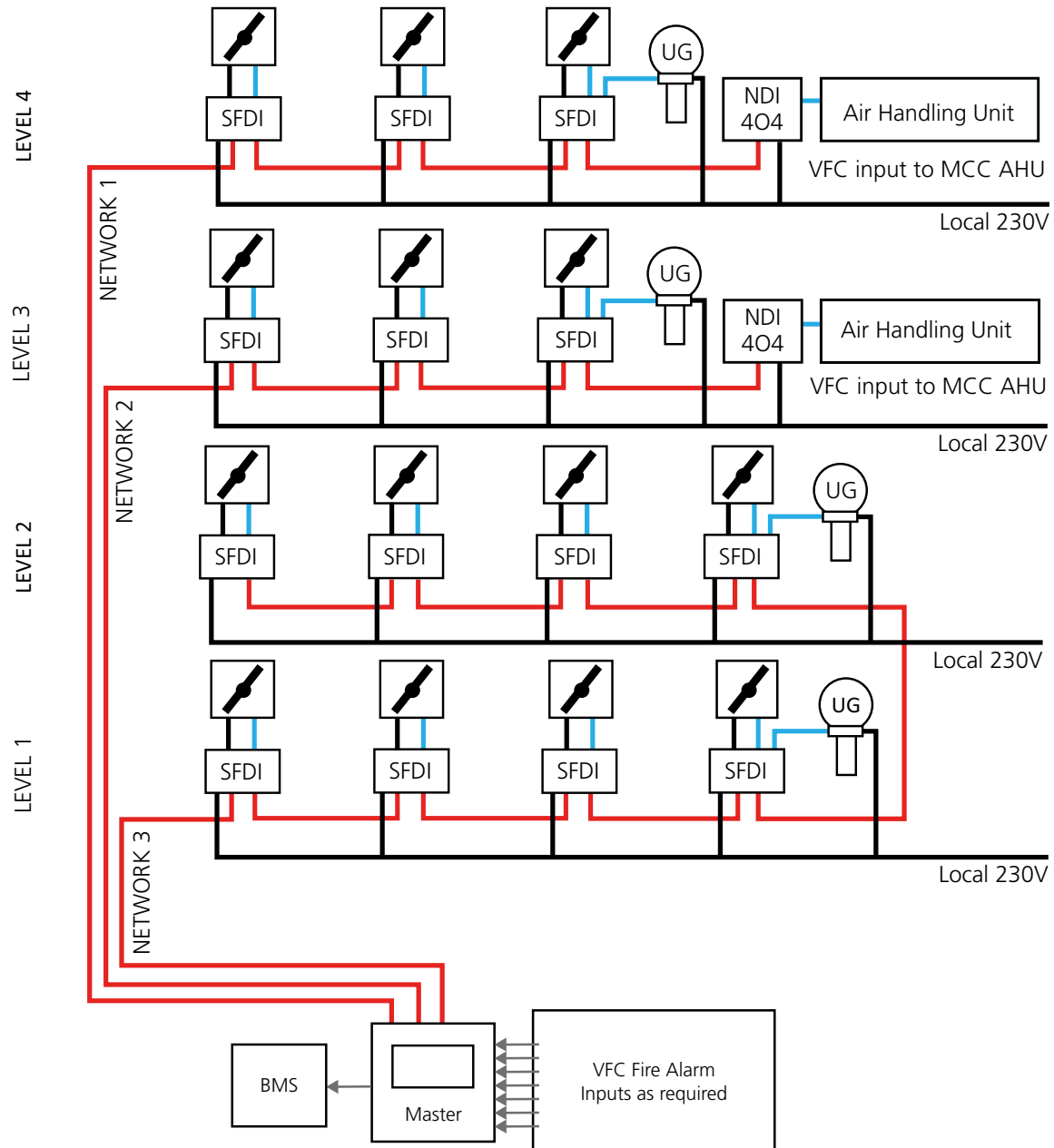
The NEPTUNE intelligent smoke/fire Damper typical Control System application.

The NEPTUNE system is designed to protect life and property from damage caused by smoke and fire, by providing the means to:




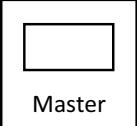

- Compartmentalise fire zones.
- Reduce the spread of smoke and fire.
- Keep escape routes and fire-fighting access open.
- Allow pressurisation and smoke extract by combined operation of dampers and fans.
- Allows complex strategies (cause and effect).

# System setup

## Controls, dampers and accessories



### Legend

	NEPTUNE SFDI Smoke Fire Damper Interface		IGNIS Fire damper		NEPTUNE NDI404 Network Digital Input/Output Device
	NEPTUNE Master		NEPTUNE UG Smoke detector with relay contact		