



Components of SHEV system

SHEV controls all processes



We are pleased to help in the planning of your smoke and heat exhaust ventilation staircase system.



SIMON PROtec Systems GmbH
Medienstraße 8
D - 94036 Passau
Tel: + 49 851 98870 - 0
Fax: + 49 851 98870-70
E-Mail: info@simon-protec.com
Internet: www.simon-protec.com



SIMON PROtec Deutschland GmbH
Frauenhoferstraße 14
D - 82152 Planegg
Tel: + 49 89 79 170 11
Fax: + 49 89 79 179 72
E-Mail: info@simon-protec.de
Internet: www.simon-protec.de

SIMON
we create fire safety

© SIMON PROtec 2021



Safety in the stairwell

Smoke and heat exhaust ventilation compact control panel

SIMON
we create fire safety



SHEV – Intelligent smoke and heat vent solutions in stairwells

Saving stairwells well-directed.

Smoke and heat exhaust ventilation (SHEV) systems demonstrate an important component in the preventative constructional fire control. Flames are not the greatest danger for people during a fire in a building, but rather the toxic fire smoke.

Through the smoke extraction openings in the area at the top of the building and sufficient fresh air inlets in lower areas, smoke and heat can extract. This enables people who are still in the premises to leave the building in a low-graded smoke zone. Meanwhile the fire brigade is able to extinguish the fire and rescue personnel can bring out the people safely from the building.



Safe escape routes – safe human life

Compact control panel SHEV 3 / SHEV 6



The heart of our SHEV system for stairwells is the compact control panel SHEV 3, respectively SHEV 6 (output 3 Ampere and 6 Ampere). It is a compact device that is tested according to ISO 21927-9 and certified according to DIN EN 12101-10. The control panel contains primary and secondary energy supply as well as the whole control technique for the operation of 24 Volt DC actuators at building openings. The compact control panel operates the actuators in case of fire and for daily ventilation.

Special ventilation functions (gap ventilation, dead man function, automatic ventilation) are free and individually programmable for the user. The daily ventilation function is also always a function control of the SHEV system. By the manual (Emergency button HE 08x) or automatic (smoke/heat detector) activation of the smoke and heat exhaust ventilation, electrical actuators or fittings are activated opening the smoke vents in the facade of the roof. The emergency power supply (lead acid batteries) at a power breakdown (mains failure) saves the function of the smoke and heat exhaust ventilation system for at least 72 hours.

Remote diagnosis by GPRS (maintenance and trouble shooting) is optional and possible without excessive cost.

Please find further detail and technical information on our web site www.simon-protec.com.

Smoke and heat exhaust ventilation in stairwells

Smoke and heat exhaust ventilation system belong to the area of the plant-engineering constructional fire control. With the installation of SHEV systems lives can be saved in case of emergency. Therefore the necessity is compulsory by law in many European countries.

The building permit authority determine the manner in which these conditions are enacted. Therefore it is important to prove before installation that the smoke and heat exhaust ventilation system meets the official requirements.



Flush-mounted version SHEV 3 UP with integrated emergency button and vent buttons Open/Close

Our service – your profit.

- 40 years experience with electromotive actuated smoke and heat exhaust ventilation.
- Consulting, planning and worldwide service for every request.
- Own development department for smoke and heat exhaust components. Made in Germany according to DIN ISO 9001.



- | | |
|-------------------------------------|--------------------------|
| ① Emergency button | ④ Smoke exhaust opening |
| ② Vent switch | ⑤ Wind/rain detector |
| ③ Fresh air inlet via entrance door | ⑥ Control panel SHEV 3/6 |
| | ⑦ Smoke detector |

www.simon-protec.com