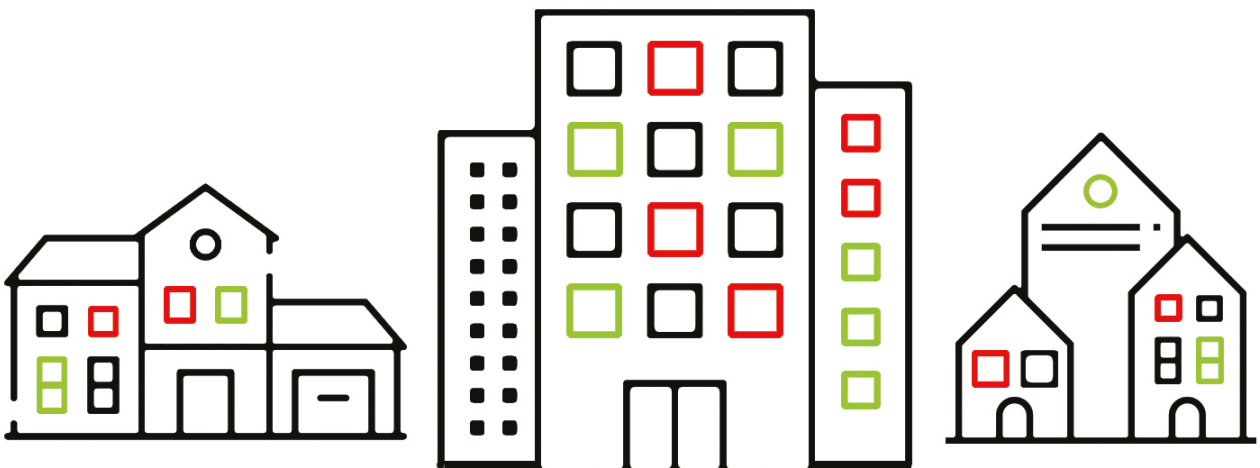


Window Technology

A WIDE RANGE OF INNOVATIVE SOLUTIONS FOR THE
AUTOMATION OF WINDOWS, ROOF & SKYLIGHTS FOR
NATURAL, SMOKE AND ENVIRONMENTAL VENTILATION



About Group SCS

Smoke control experts with more than 25 years of industry experience

Group SCS is an expert provider of smoke control systems and BEMS, delivering solutions with safety at its core. Our work on thousands of complex UK construction projects and in-depth knowledge of the smoke control industry have paved the way to innovation and given us the expertise required to handle projects of any scope.

What we offer



Smoke Control

Comprehensive packages with innovative open source controls that facilitate integration with our BEMS and fire alarm installations.



BEMS

Cost and energy efficient systems that integrate various environmental controls such as heating, lighting, ventilation and security through one system.



Modular Solutions

A range of standardised modular systems that can be self-selected, specified and purchased through a variety of routes.



Window Technology

A wide range of innovative solutions for the automation of windows, roof & skylights for Natural, Smoke and Environmental ventilation.



Training

Group SCS supports a network of trained Approved Installers, who have expert knowledge of our range and benefit from our ongoing support.



Support & Aftercare

Our aftercare, service and maintenance division provides support and ensures that buildings remain safe after handover.

The Window Technology range

A comprehensive choice of controls, switches and sensors supports our Window Technology range for intelligent communication with BEMS and fire alarm panels, as well as for operating as a standalone system.

We fully support our wide portfolio of products by offering unrivalled technical assistance, service and maintenance. Explore our brochure to find out more about the window technology range.

Actuators

Chain Actuators

Our electronically operated chain drives are used to automate vertically mounted, top, bottom and side-hung AOV windows, both inward and outward-opening. They are suitable for both **higher temperature** and **environmental applications** and offer an aesthetically pleasing drive positioned at the window.

Suitable for Aluminium, UPVC and Timber windows, the drives can be **synchronised together** for wider and larger windows.



EA-K-50 24V DC 500N Chain Actuator

Tested to EN12101-2
Available in: 300/500/600/
750/1000/1200mm
Programmable options



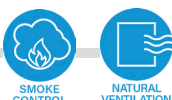
EA-K-50 230V AC 500N Chain Actuator

230V AC
300/600/750/1000mm
Near silent operation
Programmable options



EA-K-30 24V DC 300N Chain Actuator

Tested to EN12101-2
Available in 5 stroke lengths:
400/600/800/1000mm
Programmable options



EA-K-30 230V AC 300N Chain Actuator

230V AC
Strokes: 300/600/800/1000mm
Near silent operation
Programmable options



EV-AS 24V DC 250N Chain Actuator

Aluminium anodised silver
housing
Available in 4 stroke lengths
150/200/250/300 mm



EV-AS 230V AC 250N Chain Actuator

Aluminium anodised silver
housing
Available in 4 stroke lengths
150/200/250/300 mm



EV-DUAL 24V DC 800N Dual Chain Actuator

Anodised silver housing finish
with RAL options
Strokes: 400/600/800mm



EV-DUAL 230V AC 800N Dual Chain Actuator

Anodised silver housing finish
with RAL options
Strokes: 400/600/800mm





**L35 24V DC 350N
Chain Actuator**

- Composite casing
- Adjustable strokes
- Ideal for natural ventilation
- Brackets included



**L35 230V AC 350N
Chain Actuator**

- Composite casing
- Adjustable strokes
- Ideal for natural ventilation



**EA-KN-20 XS 24V DC 150N
Chain Actuator**

- Lightweight performance
- Switchable stroke - DIP switch
- Strokes 70/125/170/210mm
- Brackets Included



**EA-K-65 24V DC 650N
Chain Actuator**

- 650N force for heavier and larger windows
- Programmable options
- Strokes: 300/600mm

Actuators

Linear Actuators

Linear, slit and rack & pinion actuators are ideal for opening and closing the likes of top-hung outward windows, skylights, solar shading blades, domes and more. Where higher forces are required to overcome additional wind and snow loads, linear actuators should be used. They are suitable for both **higher temperature and environmental applications** and available in numerous stroke lengths to suit any application.

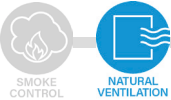


A65 230V 650N Linear Actuator

Rack and pinion

Adjustable degree of opening
via DIP switch

Strokes: 180/350/550mm

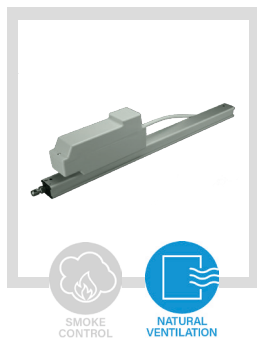
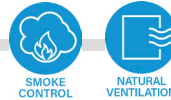


EA-L 24V 1000N Linear Actuator

1000N max push & pull force

For controlling windows,
skylights and hatches

Strokes:
300/500/750/1000mm

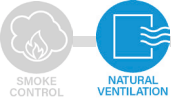


EA-SZ 230V 650N Linear Actuator

Rack and pinion

Strokes:
300/500/750/1000mm

Includes upper and lower
brackets

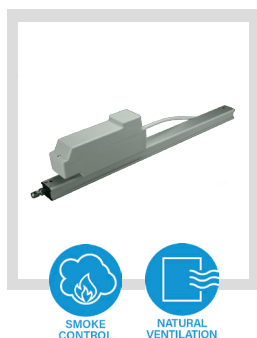
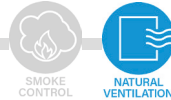


EA-SU 230V 300N Linear Actuator

Smoke Ventilation Spindle/
Linear Actuator - 230V AC

Thermal cut off

Strokes: 300/500mm

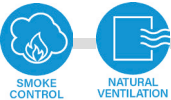


EA-SZ 24V 800N Linear Actuator

Rack and pinion

Strokes:
350/550/750/1000mm

Includes upper and lower
brackets

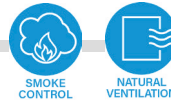


EA-L 24V 500N Linear Actuator

Smoke Ventilation Spindle/
Linear actuator

Thermal cut off

Strokes:
300/500/750/1000mm



EA-L/S 24V 500N Linear Actuator

Force - 500N, 1.1A, 24V

For inwards opening windows
and louvres with integrated
electronic overload cut off

Strokes: 285/485mm



Actuators

Folding Arm Actuators

Precision-designed for improved performance, durability and flexibility, our Folding Arm Actuator range is a visually appealing choice for both natural ventilation, and smoke control.

Our Folding Arm Actuators are energy-efficient and weather resistant, offering wide opening angles with rapid opening and closing times. Tested to EN 12101, the folding arm actuator meets all relevant smoke control regulations and comes in 1000N, 800N and 500N forms with a stroke of up to 710mm.



Folding Arm 2 "Shorty" 500N, 530mm stroke, 1.4A

- Opens in under 60 seconds
- Wide opening angles
- Low energy consumption
- Weather resistant



Folding Arm 2 "Shorty" 800N, 530mm stroke, 2.0A

- Opens in under 60 seconds
- Wide opening angles
- Low energy consumption
- Weather resistant



Folding Arm 2 Actuator 1000N, 710mm stroke, 3.0A

- Opens in under 60 seconds
- Wide opening angles
- Low energy consumption
- Weather resistant



Folding Arm 2 Actuator 500N, 710mm stroke, 2.0A

- Opens in under 60 seconds
- Wide opening angles
- Low energy consumption
- Weather resistant



Folding Arm 2 Actuator 800N, 710mm stroke, 2.6A

- Opens in under 60 seconds
- Wide opening angles
- Low energy consumption
- Weather resistant



Folding Arm Rotary 500N, 1.6A/2.0A

- Opens in under 60 seconds
- Opens to 140 degrees
- Suitable for Smoke and Natural ventilation



Folding Arm 2 Door Opener Actuator

- Suitable for natural ventilation
- Guarantees inlet air on a mechanical smoke extract system
- Opens in under 60 seconds

Ventilators



For smoke control or natural ventilation, our range of hatch and louvred automatic opening vents (AOVs) and windows fit the bill. An ideal solution for any small single stair building smoke control system, the Group SCS AOV windows and vents fit all your smoke control needs.

Louvred Window 1000x1320mm

Fully tested glass louvre system to the European Standard EN 12101-2

Suitable for smoke ventilation applications

Thermal broken aluminium profiles

Comes with glass blades

Geometric free area = 1.0m²

Louvred Window 1000x2000mm

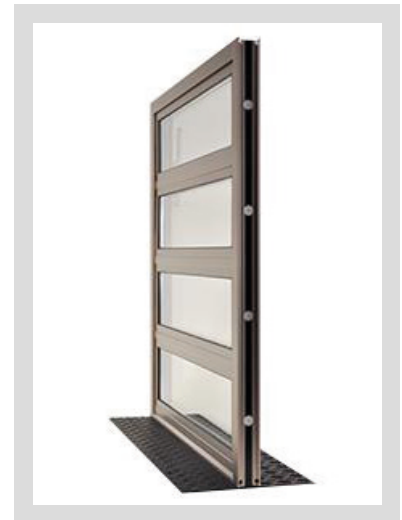
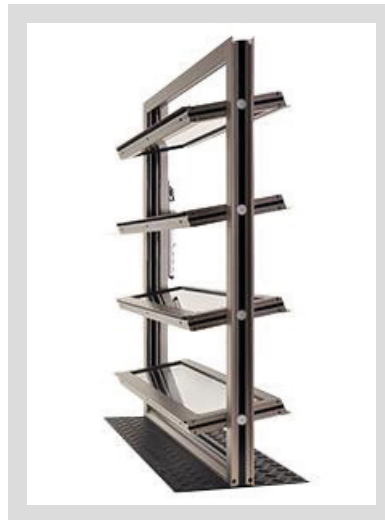
Fully tested glass louvre system to the European Standard EN 12101-2

Suitable for smoke ventilation applications

Thermal broken aluminium profiles

Comes with glass blades

Geometric free area = 1.5m²



Head of shaft 1.5m²

Hatch Vent AOV

Provides discharge of smoke and fumes with an opening angle of 140 degrees

Panel options:

- 40mm sandwich panel
- 10mm polycarbonate translucent panel

Aluminium base with a 20mm mineral wool infill

Measured Geometric Free Area: 1.61m²

Throat Dimensions: 1100mm x 1600mm



Head of shaft 1.0m²

Hatch Vent AOV

Provides discharge of smoke and fumes with an opening angle of 140 degrees

Panel options:

- 40mm sandwich panel
- 10mm polycarbonate translucent panel

Aluminium base with a 20mm mineral wool infill

Measured Geometric Free Area: 1.06m²

Throat Dimensions: 1100mm x 1100mm

UniGlaze NV Glazed Casement AOV



The Group SCS Automatic Opening Vent is a fully integrated and high-performance Aluminium Window system. The range is perfectly suited to low and high rise buildings, schools and facades for new and refurbishment projects, offering the flexibility of design along with excellent thermal insulation performance.

Mounted with a precision-engineered window actuator, with options of a surface-mounted chain-driven or folding arm type allows automation up to 1000mm opening stroke distance.

The Automatic Opening Window can be purchased, manufactured and delivered as a complete assembly with a number of glazing options to suit any size and scale project.

Bottom Hung Outward Opening Glazed Casement

Side Hung Outward Opening Glazed Casement

Top Hung Outward Opening Glazed Casement

Key Features

Top, bottom and side hung options

Inward and outward opening options

Suitable for use in facades, wood and wall mounting

Punch hole or clip in profile fixing

RAL finished

Glazing up to 60mm

Options for integrated locking



Control Panels

Group SCS supplies a wide range of control panels to govern simple systems, complex systems and all the systems in-between for **natural smoke control and environmental ventilation**. In the case of smoke control, the systems open AOV Windows, roof lights and any other automated exhaust ventilators. Interfacing with the building's fire alarms and BEMS, they offer life safety control and communication for optimal building efficiency. For natural ventilation, our control systems place people at the heart of our designs, ensuring their health and well-being by supplying fresh air for occupants in any space.

Natural Ventilation Panels



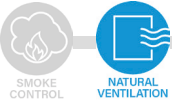
VENT 3

Current 3.0 amps

Weight 5.3Kg

Window actuator/vent control

Integrated switch



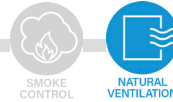
VENT 3 WI-FI

Current 3.0 amps

Weight 5.3Kg

Window actuator/vent control

Integrated switch



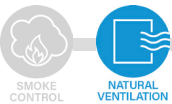
VENT 6

Current 6.0 amps

Weight 6.3Kg

Window actuator/vent control

Integrated switch



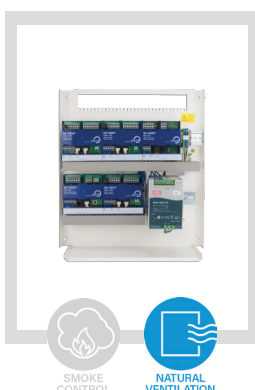
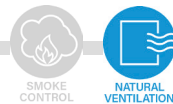
VENT 6 WI-FI

Current 6.0 amps

Weight 6.3Kg

Window actuator/vent control

Integrated switch

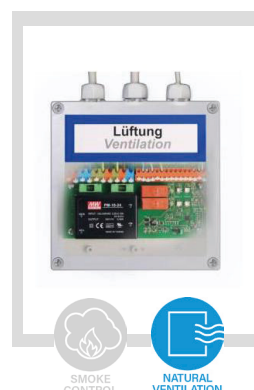


M-VENT

5,10,20,24,48 & 72 Amp versions

Modular

0-10v Analogue control



230v Daily Vent 6A

Sealed enclosure

Designed for 230V daily ventilation control systems

Contains a power supply, control and regulation electronics, output relays and fuses



Smoke Control Panels



EV-301

3A AOV Control Panel

Programmable facility for limited ventilation

Stand alone operation or as part of a BRE shaft system

Battery back-up is included



EV-601

6A AOV Control Panel

Programmable facility for limited ventilation

Stand alone operation or as part of a BRE shaft system

Battery back-up is included



M-SHEV-24

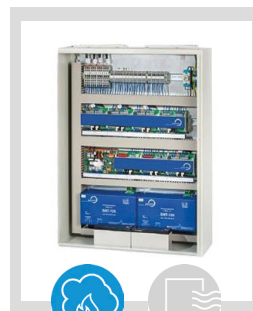
Compact Control Unit

Current: 24 amps

Contains power supply and battery back-up

Enables operation of 24V DC actuators

Modular



M-SHEV-10

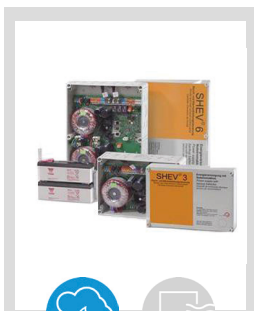
Compact Control Unit

Current: 10 amps

Contains power supply and battery back-up

Enables operation of 24V DC actuators

Modular



SHEV 3

Compact Control Unit

Current: 3.0 amps

Contains power supply and battery back-up

Enables operation of 24V DC actuators



SHEV 3 UP

Compact Control Unit

Current: 3.0 amps

Breakglass switch comes integrated within the panel

Can be surface mounted



SHEV 6

Compact Control Unit

Current: 6.0 amps

Contains power supply and battery back-up

Enables operation of 24V DC actuators



Switches, Sensors & Detectors



Fireman's Override Switch | HE-077

Compatible with:

- EV-301/602
- SP200/300/600

Comes with a plastic enclosure, break glass pane, 3 LED indicators and buzzer



Fireman's Override Switch | HE-082

Compatible with:

- SHEV 3/3 UP/6/10 range

Comes in grey and yellow

Comes with plastic enclosure, break glass pane, 3 LED indicators



Fireman's Override Switch | HE-080

Compatible with:

- SHEV 3/3 UP/6/10 range

Comes in grey and yellow

Comes with plastic enclosure, break glass pane, 3 LED indicators and sounder



Photoelectric Smoke Detector

Includes head and a standard mounting base.

Voltage: 8-30 VDC

Current: 60uA

Weight: 0.120kg



Retractive Switch with green text

Operate windows or doors for daily ventilation

Weight: 0.3 kg

Colour: White with green text

81mm x 81mm x 12mm

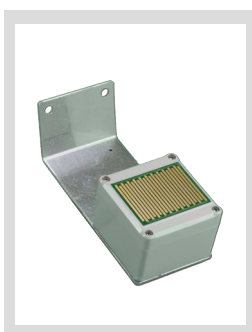


Tamper Proof Thermostat

Range: 8 to 30 °C

Humidity: <95 % r.h.

System Connection: 2 Core connection to the daily ventilation panel



Rain Detector for ventilation systems

Comes with mounting accessories

Voltage: 24volts

Current: 110mA when triggering



Wind And Rain Detector For ventilation systems

Comes with mounting accessories

Voltage: 24volts

Current: 110mA when triggering

Natural Ventilation Kits



Our Environmental Ventilation Kits offer everything you need for simple, easy automation of small, medium and large top, bottom and side hung windows for Environmental Ventilation. Some of the kits offer the additional benefit of controlling the panel remotely via your smartphone or a web-based App.



NV Kit 1

Components

1 x EV-AS – Adjustable Stroke Chain Actuator
24V DC, 250N, Silver

1 x EV-VENT3 - Control Panel

1 x EV-ITH – Tamper Proof Thermostat

1 x EV-RS – Rain Detector for Ventilation
Systems

Features

Suitable for small to medium top, bottom and
side hung windows

Various opening stroke distances

Inward and Outward opening brackets are
supplied

NV Kit 2

Components

1 x EV-AS – Adjustable Stroke Chain Actuator
24V DC, 250N, Silver

1 x EV-VENT3-WIFI – Control Panel

1 x EV-ITH – Tamper Proof Thermostat

1 x EV-RS – Rain Detector for Ventilation
Systems

Features

Suitable for small to medium top, bottom and
side hung windows

Remote control via smartphone or web-based
App

Various opening stroke distances

Inward and Outward opening brackets are
supplied



NV Kit 3

Components

1 x EV-DUAL – Large Dual Chain Actuator 24V DC, 800N, 400mm Stroke

1 x EV-VENT3 – Control Panel

1 x EV-ITH – Tamper Proof Thermostat

1 x EV-RS – Rain Detector for Ventilation Systems

Features

Suitable for heavier top, bottom and side hung windows

Various opening stroke distances

Inward and Outward opening brackets are supplied

NV Kit 4

Components

1 x EV-DUAL – Large Dual Chain Actuator 24V DC, 800N, 400mm Stroke

1 x EV-VENT3-WIFI – Control Panel

1 x EV-ITH – Tamper Proof Thermostat

1 x EV-RS – Rain Detector for Ventilation Systems

Features

Suitable for heavier top, bottom and side hung windows

Remote control via smartphone or web-based App

Various opening stroke distances

Inward and Outward opening brackets are supplied



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