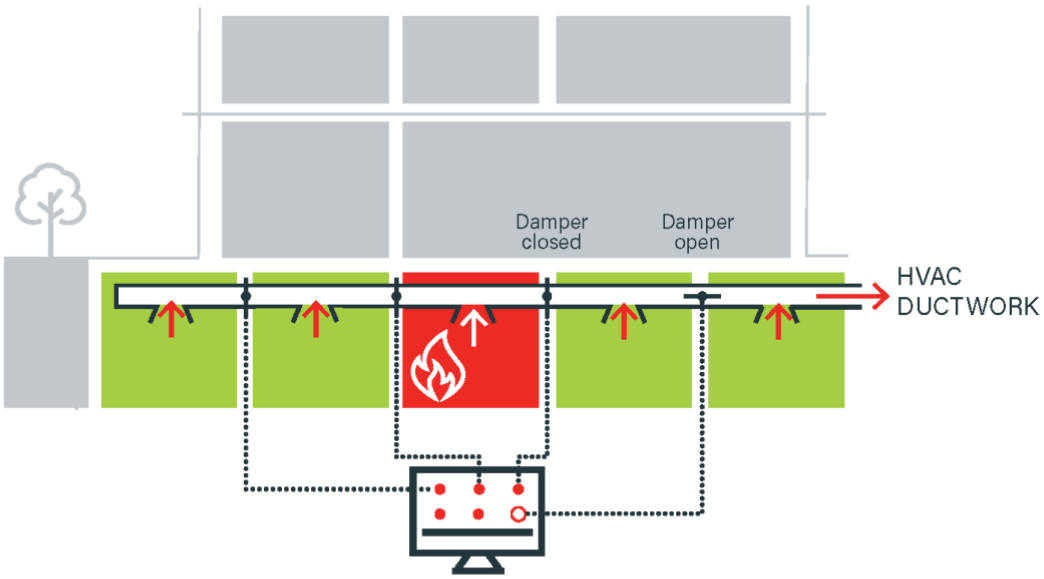
UniDamp

Addressable Fire/Smoke Damper Control System

TECHNICAL SUBMITTAL

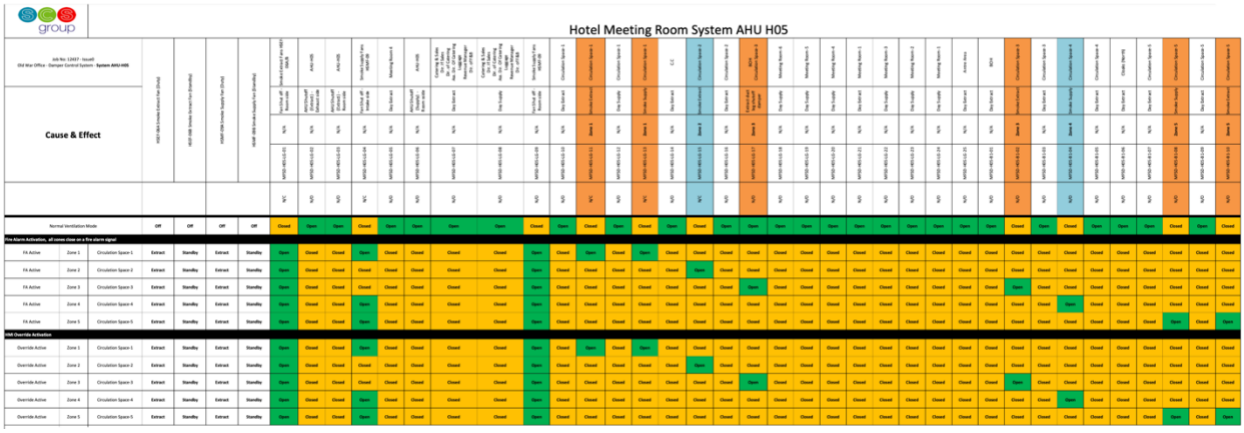


Overview

The damper control and monitoring system shall be the UniDamp addressable damper control system manufactured by SCS Group. A fully addressable control system with a standardised, modular software programme manages the operation of the complete system and offers remote interrogation and maintenance and interfacing with the building management system (BMS). The controls are configurable on site through a menu driven touchscreen without the need for on-site programming. The system features a remote self-test facility that can perform system tests at scheduled intervals and issue compliance reports or notify errors to building management. The system shall be installed and certified by a member of the SCS Group approved supplier network.

System Cause and effect

The operation of the system will be documented in the cause and effect table for the project detailing all of the inputs and outputs of the building relevant to the control of smoke and fire within the building. An example cause and effect is reproduced below for illustration. Post installation changes to the cause and effect can be implemented through the touch screen HMI mounted on the main panel.



Component Specifications

EV-100 Damper Interface Panel

A flexible and reliable controller for all types of smoke control and fire damper.

VIEW DATASHEET

	Interface Panel	Interface Panel and Hot Box
Dimensions	H:182mm x W:180mm x D:90mm	H:284mm x W:284mm x D:160mm
Weight	0.9Kg	5.6Kg (incl. panel)
Cable Entries	8 no. M20, 1 no. M25/M32 knockouts	8 no. pre-drilled 6mm dia. max cables
Finish	ABS plastic, RAL 7035 light grey	FabBloc insulating material, RAL 9010 White
IP Rating	IP66	IP55
Conformity	CE Marked to low voltage and EMC Directives	CE Marked to low voltage and EMC Directives

EV-DCP-N Damper Control Panel

A central control centre for intelligent control and monitoring of smoke control dampers.

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Voltage Input	230V AC
Cable Entries	Top
IP Rating	IP55
Operating temperature	-5 to +50 °C ambient temperature
Finish	Mild steel, RAL 7035 light grey powder-coated finish
Conformity	CE Marked to low voltage and EMC Directives, EN 12101-10.

EV-HMI12 User Interface Panel (where applicable)

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The HMI12 user interface panel provides monitoring, diagnostics and override control of the damper control system via a 12-inch colour touchscreen.

Cable Entries	Bottom, Top or Rear
Voltage input	24VDC
IP Rating	IP42 (indoor use only)
Max current load	500mA
Operating temperature	0 to +40°C ambient temperature
Dimensions	H:300mm x W:400mm x D:120mm
Finish	Mild steel, RAL 7035 light grey powder-coated finish
Conformity	CE Marked to low voltage and EMC Directives

EV-IOD Interface Panel (where applicable)

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The EV-IOD is a digital input/output device with 8 digital inputs and 6 relay outputs for receipt of signals from third party systems, typically fire alarm or BEMS and control of ancillary items such as fans.

Cable Entries	Top
IP Rating	IP66
Voltage input	230V AC 50Hz maintained
Operating temperature	-5 to +50 °C ambient temperature
Finish	Mild steel, RAL 7035 light grey powder-coated finish
Dimensions	H:200mm x W:300mm x D:120mm
Weight	3 Kg
Conformity	CE Marked to low voltage and EMC Directives

EV-FAN Duty / Standby Fan Control Panel (where applicable)

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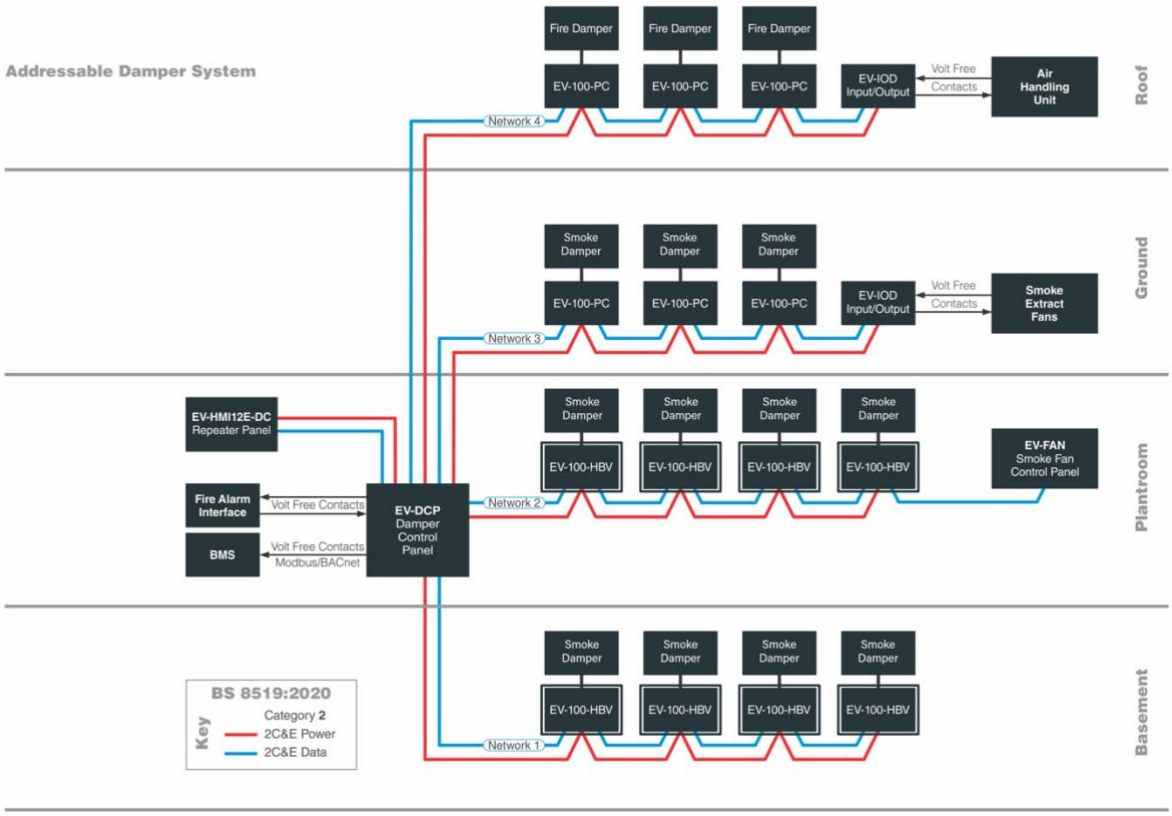
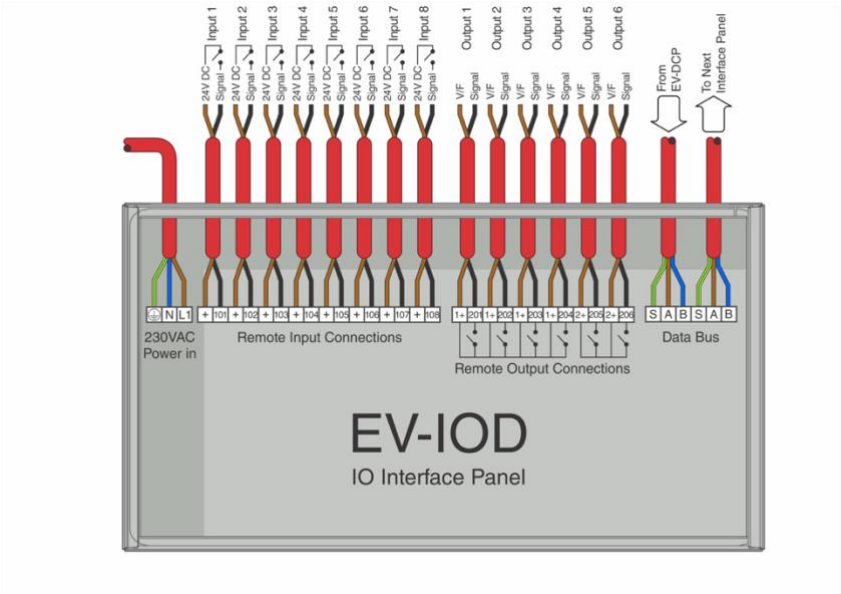
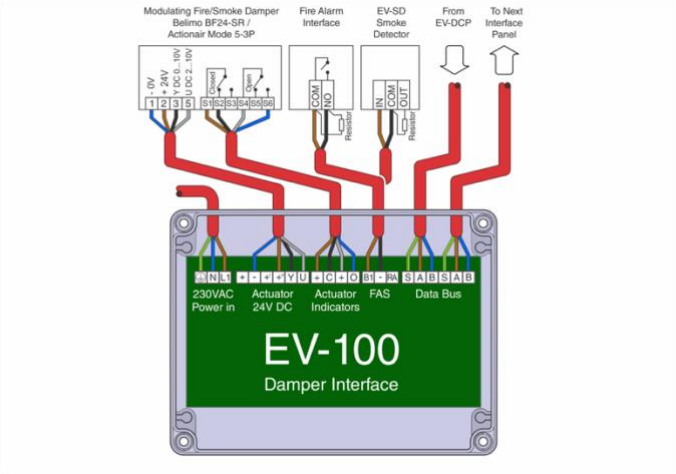
The EV-FAN is the main shaft control panel and a standalone panel, interfacing to a HMI panel.

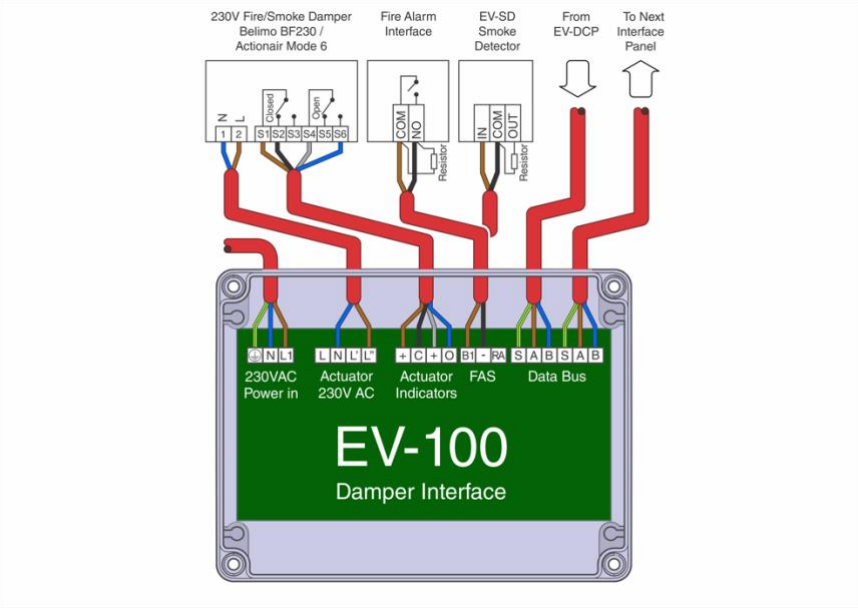
Cable Entries	Bottom
IP Rating	IP55 weatherproof with rain canopy
Voltage input	Single maintained 400V AC 50Hz 3P&N (4 wire)
Voltage output	400V AC 50Hz 3P
Operating temperature	-5 to +50°C ambient temperature
Finish	Mild steel, RAL 7035 light grey powder-coated finish

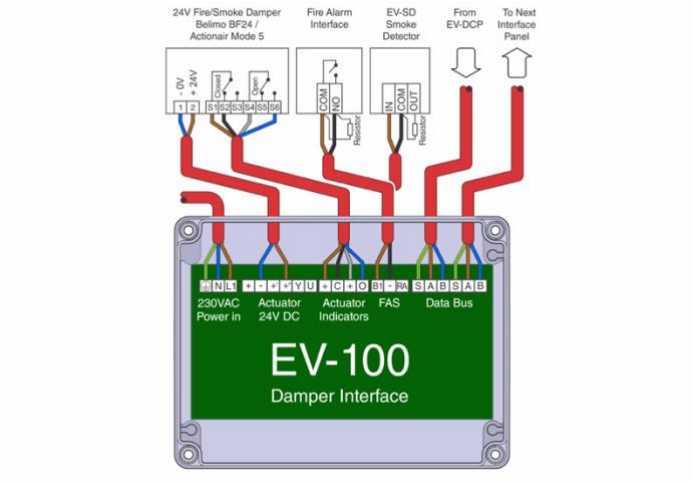
Electrical Wiring






Modulating Fire/Smoke Damper
Belimo BF24-SR /
Actionair Mode 5-3P
Fire Alarm
Interface
EV-SD
Smoke
Detector
From
EV-DCP
To Next
Interface
Panel
230VAC
Power in
Actuator
24V DC
Actuator
Indicators
FAS
Data Bus
EV-100
Damper Interface

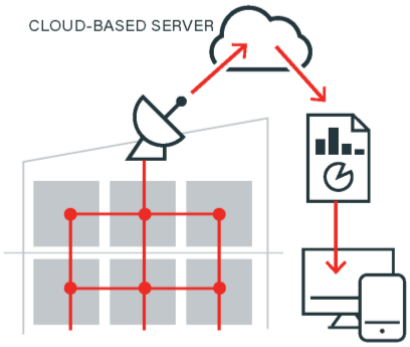

230V Fire/Smoke Damper
Belimo BF230 /
Actionair Mode 6
Fire Alarm
Interface
EV-SD
Smoke
Detector
From
EV-DCP
To Next
Interface
Panel
230VAC
Power in
Actuator
230V AC
Actuator
Indicators
FAS
Data Bus
EV-100
Damper Interface


24V Fire/Smoke Damper
Belimo BF24 /
Actionair Mode 5
Fire Alarm
Interface
EV-SD
Smoke
Detector
From
EV-DCP
To Next
Interface
Panel
230VAC
Power in
Actuator
24V DC
Actuator
Indicators
FAS
Data Bus
EV-100
Damper Interface

Eyeball

FIND OUT MORE

Remote Automatic Testing and Monitoring



The system is connected to a Cloud-based server with Eyeball hardware providing web access via PCs, tablets and smartphones for monitoring and diagnostics. Data on test results, system status and alarms is sent to the Cloud to generate reports and send alerts via email or SMS. With support for all UK networks, Eyeball - which is a subscription service - is designed to work in any geographical location with 3G/GSM/GPRS service.