

SCS-M2

Smoke Control System



Regin Smoke Control System is an intelligent, self-monitoring system. Fire dampers close and isolate the fire cell, smoke control dampers open, while the smoke evacuation fan (SEF) evacuates the smoke out of the ventilation system, without adding oxygen to the fire.

To ensure a functioning system, it's continuously monitored and exercised autonomously.

- ✓ Intelligent, self-monitoring system
- ✓ Exercised autonomously at preset intervals
- ✓ Can be used as a stand-alone system
- ✓ 57 damper units can be added to each master unit

Application

The system is connected to the building's smoke detectors and fire alarms, as well as the air handling unit and fire dampers. For additional control, it is also possible to connect a superior building management system via Modbus and BACnet protocols.

Function

The Regin Smoke Control System, SCS, is a system that allows to feed, monitor, and test up to 60 dampers. Three fire dampers can be connected directly to the master unit SCS-M2 and with the help of the damper units SCS-S2, 57 additional fire dampers, smoke control dampers or VAV-dampers can be connected, one damper per damper unit. You can also connect and monitor smoke detectors, temperature sensors, and a thermostat (one thermostat per SCS-M2 master unit).

Installation SCS-M2

SCS-M2 master unit is the main control unit in the system and can be used as a stand-alone system. It can connect directly up to three fire dampers, two smoke detectors, a thermostat, a temperature sensor and ensures that the components activate in the event of a fire. External fire alarm systems and activation button can also be connected to the master. The air handling unit (AHU) is stopped in fire, emergency operation, and exercise mode. The master scans all smoke detectors, temperatures, external alarms, external automatic fire alarm (AFA), and operates dampers when one or more detectors or external alarms are activated. The device can be connected to a building management system (BMS) which communicates via Modbus/BACnet.

In addition, an error panel can also be connected and monitored in the system.

The control system is configured to only feed 24V actuators.

The system consists of:

- ✓ SCS-M2 Master unit
- ✓ SCS-S2 Damper unit (max. 57 per master unit)
- ✓ SCS-PDTH Pressure transmitter
- ✓ SCS-EP Error panel (light and sound)
- ✓ TG-KH3/PT1000 Duct temperature sensor
- ✓ MTID120HR Duct thermostat IP65
- ✓ TRAFO75/TRAFO150 Power supply unit
- ✓ REPEAT485 Signal repeater
- ✓ SDD-OE65 (or similar) Smoke duct detectors
- ✓ S65-OE (or similar) Smoke ceiling detectors
- ✓ E3-DSP External display
- ✓ Regin:GO application

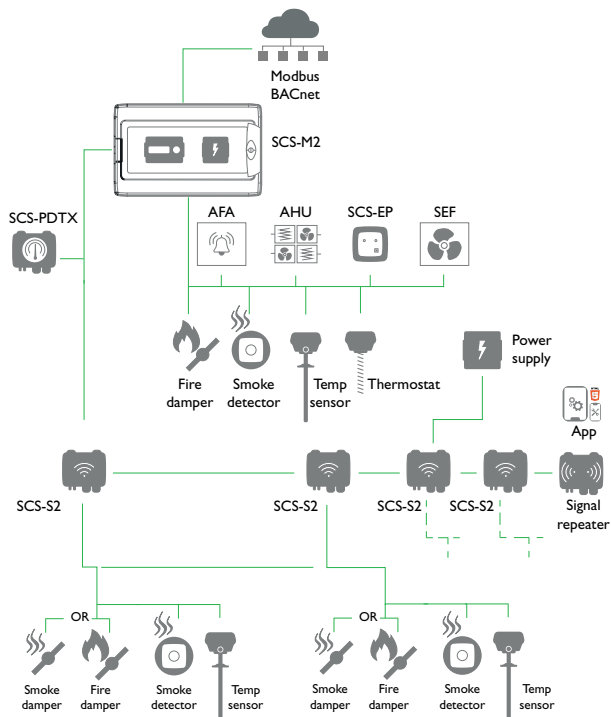


Fig. 1 System setup example

For more detailed information about system installation, see the SCS-M2 manual available at www.regincontrols.com.

Technical data

1 General data

Supply voltage	230V
Protection class	IP65
Ambient temperature	0...+50 °C
Storage temperature	-20...+70°C
Mounting	Wall
Dimensions	445 x 280 x 150 (165 w. handle) mm

2 Controller

Supply voltage	24 V ~ (21...27 V ~ 50...60 Hz) / 20...36 V DC (not units with a CI input)
Power consumption	4 VA
Protection class	IP20
Ambient humidity	Max. 95 % RH
Ambient temperature	0...50 °C
Storage temperature	-20...+70 °C
Operating system	EXOreal
Battery backup	Memory and real-time clock, at least 5 years
Number of modules	8.5
Dimensions, external (WxHxD)	149 x 121 x 58 mm

3 Inputs & Outputs

+C output	24 V DC, 0.15 A, short circuit protected
Digital Output (DO)	Max 2 A continuous load, total max 8 A

4 Communication ports

Communication ports	2
Serial ports	2
Ethernet ports	1

5 Ethernet port

Port type	Ethernet
Default protocol	EXOline-TCP
Supported protocols	EXOline-TCP / BACnet/IP / Modbus/IP
Cable connection	RJ45, 10Base-T/100Base-TX auto-negotiation
Cable length	Max. 100 m
Cabling	Min. Cat 5

6 HMI

Clock	Yes
Display	Built-in or/and external
Display type	Backlit, LCD, 4 rows of 20 characters, international character set
Indication type	LEDs

7 Transformer, TRAFO63/D

Supply voltage	230 V ~ (230 V ~ 50/60 Hz 63 VA) (as number of damper units increase additional power supply is needed)
Output voltage	12 V AC and 24 V AC
Max. load	63 VA
Mounting	DIN-rail
Number of modules	6
Ambient temperature	Max 40 °C
Protection class	IP20
Isolation class	II
Temperature class	B
Dimensions, external (WxHxD)	106 x 90 x 62 mm



This product carries the CE-mark. More information is available at www.regincontrols.com.

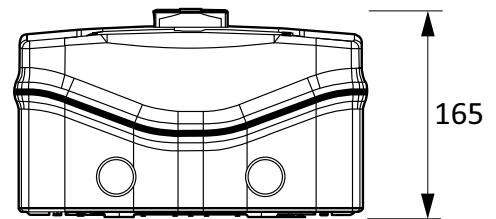
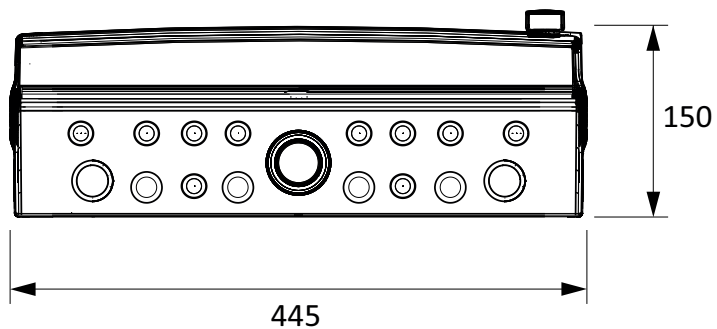
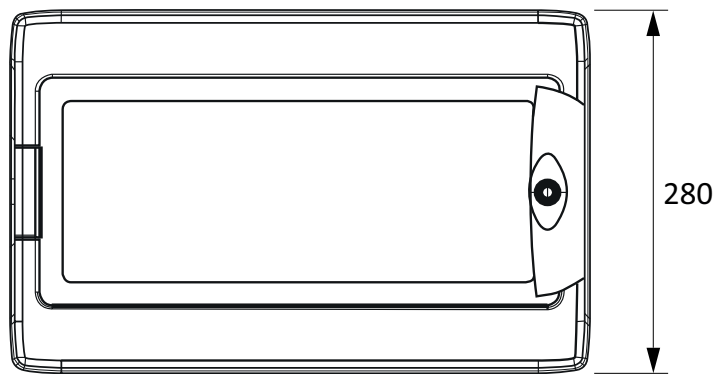
Material

Material, housing	Polycarbonate, PC
Colour	White

Accessories

Article	Description
SCS-S2	Damper unit
SCS-PDTH	Pressure transmitter
SCS-EP	Error panel
TG-KH3/PT1000	Duct temperature sensor
MTID120HR	Duct thermostat IP65
TRAFO75	Power supply unit, 24V AC, 75 VA
TRAFO150	Power supply unit, 24V AC, 150 VA
REPEAT485	Signal repeater, RS485
SDD-OE65	Smoke duct detectors
S65-OE	Smoke ceiling detectors
E3-DSP	External display
Regin:GO	Application

Dimensions



[mm], unless otherwise specified

Documentation

All documentation can be downloaded from www.regincontrols.com.