

WSC 310/320 STANDARD

AOV CONTROL UNIT

VOLTAGE

Input = 230V AC, Output = 24V DC

MOTOR LINES

1

MOTOR LOAD

10 A (WSC 310) or 20 A
(WSC 320)



DESCRIPTION

Smoke extraction and daily comfort ventilation.
2 smoke / 2 daily ventilation groups.
10 and 20A panels.
To be used with $\pm 24V$ standard actuators and/or
MotorLink® actuators.
Configuration on DIP switches.
Less cabling as the panel uses bus technology. Low power
consumption.
Compact smoke control panel for the control of $\pm 24V$
DC actuators and actuators with MotorLink® for smoke
ventilation and daily comfort ventilation. The panel can
be used in small and medium sized buildings as well as in
building sections e.g. stair cases and restaurants.
The panel is configured on DIP switches.

INPUTS FOR

Manual Override Switch
Smoke Sensor
Fire Alarm
Switch
Thermostat
Wind Sensor
Rain Sensor

APPLICATION



SMOKE
VENTILATION

CERTIFICATION

Certified and tested in accordance to EN 12101-10 

DESCRIPTION (CONTINUED)

Panel versions

The STANDARD panel is supplied in two versions:

10A, 2 smoke zones / 2 daily ventilation groups:

WSC 310 S 0202

20A, 2 smoke zones / 2 daily ventilation groups

WSC 320 S 0202

The panel is also supplied as a PLUS version where the configuration is done on the build in touchscreen – please see the separate product sheet for further information.

Smoke zone / break glass unit

Break glass units from the WSK 5 series are to be used together with this panel.

The panel registers if break glass units are connected to one or two inputs on the panel and will based on this automatically configure the smoke zones. When connecting to one input, one smoke zone with two motor lines will be configured, and when connecting to two inputs two smoke zone each with one motor line will be created.

On each line up to five break glass units type WSK 503 or WSK 504 can be connected.

If keypad and smoke detector are to be connected to the break glass unit, break glass unit type WSK 501 or WSK 502 is to be used. Only connect one of this type of unit, the remaining (up to four) break glass units must be type WSK 503 or WSK 504.

20A on one motor line (only WSC 320)

WSC 320 with 20A includes up to two motor lines each with 10A. If there is a need of more than 10A on one motor line, DIP switch 2.5 is set to 20A. Hereafter one motor line can be loaded with 20A or two motor lines can loaded up to a total of 20A e.g. 17A and 3A.

Cabling

The panel uses bus technology and the overall cabling for break glass units, smoke detectors and keypads is significantly reduced compared to other types of smoke panels.

The panel has 1 input for a smoke detector, 2 inputs for break glass units (where up to 10 break glass units can be connected) and 2 inputs for ventilation keypads (no max number of keypads).

Use break glass unit WSK 503 or WSK 504 when smoke detectors are connected to the smoke detector input in the panel.

Use break glass unit WSK 501 or WSK 502 when smoke detector is connected to the break glass unit.

Cable surveillance

Actuators with MotorLink® are monitored via data communication. If the actuator variants are not the same, a LED will indicate error.

Back-up batteries

Built-in uninterruptible power supply for min. 72h in case of power loss (batteries are supplied).

Specifications

approval according to EN 12101-10

automatically limited opening for comfort ventilation without additional modules

triggering by BMS via potential-free contact without any additional modules

configuration via DIP switches

max. output voltage 27,6VDC @ 230VAC

LED indication of the status of the panel

simple installation – less cabling

TECHNICAL DATA

Primary Voltage (Input)	230V AC
Secondary Voltage (Output)	24V DC
Motor Load	10 A (WSC 310) or 20 A (WSC 320)
Motor Lines	2
Inputs	Manual Override Switch, Smoke Sensor, Fire Alarm, Switch, Thermostat, Wind Sensor, Rain Sensor, BMS (BACnet or KNX)
Operating Condition	-5°C - +40°C
Battery Backup	>72 hr
Size	400 x 300 x 120 mm (WSC 310) or 400 x 300 x 210 mm (WSC 320)
Protection Type	IP 54
Delivery	1 x Control Unit & 2 x Batteries
Battery Size	2 x 12V 7Ah (WSC 310) or 2 x 12V 12Ah (WSC 320)
Certification	EN 12101-10

ACCESSORIES

SSR-D	-	Optical Smoke Sensor
WLA110	-	Room Thermostat
WLA330	-	Wind & Rain Sensor
WLA331	-	Rain Sensor
WSK100	-	Ventilation Keypad
WSK501	-	Manual Override Switch
WSK503	-	Manual Override Switch

PART CODES

WSC310	-	WSC 310 Control Unit 24 V 10 A
WSC320	-	WSC 320 Control Unit 24 V 20 A

COMPATIBLE WITH



WMX 826
Chain Actuator



WMU 836
Chain Actuator



WMU 842
Chain Actuator



WMD 820
Folding Arm Actuator

(Multiple 24V DC actuators, total load must not exceed 10 A (WSC 310) or 20 A (WSC 320) max.)