

# SMOKE VENTILATION CONTROL PANELS



Control unit for smoke and heat exhaust ventilators including meteorological detection and comfort ventilation



A very versatile range of smoke ventilation control panels, provided of back-up batteries: they operate 24 Vdc actuators for smoke and heat extraction in case of fire, and control the automation of single or multiple windows for natural ventilation even in a multi-storey building.

The opening command for smoke extraction is controlled by smoke detectors, emergency push buttons, fire alarm systems or Building Management Systems (BMS) by "free potential – normally closed" inputs. Fire alarm conditions and control panel faults are signalled on the emergency push button.

To provide comfort and energy saving, natural ventilation is granted operating automatically the windows according to the environmental conditions detected by the sensors. In addition, for natural ventilation, windows can be manually controlled by zones through local push-buttons.

C-SV and C-SV IB control panels have been designed, tested and certified according to EN 12101 part 10 and prEN 12101 part 9 by IFT Rosenheim (pending test).

## POWER

VOLTAGE SUPPLY INPUT	100-250 Vac, 50-60 Hz
VOLTAGE SUPPLY OUTPUT	24 Vdc ( $\pm 25\%$ )
VOLTAGE OUTPUT OPERATION	Polarity inversion
AUX VOLTAGE OUTPUT	24 Vdc
NOMINAL CURRENT	4 A / 8 A / 13 A / 20 A
BACK UP BATTERY	2x 12 Vdc (sealed lead-acid batteries)

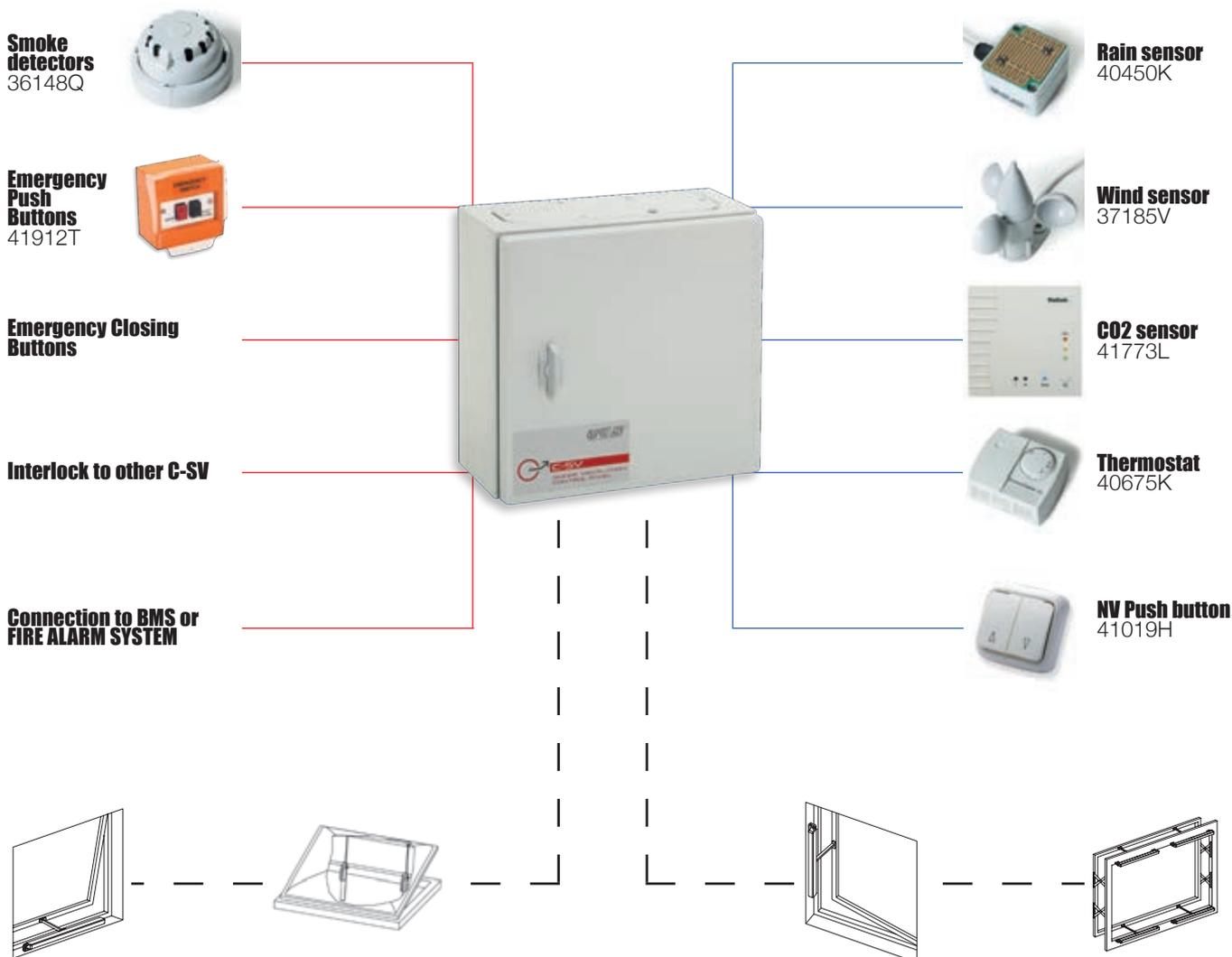
## FEATURES

SMOKE VENT ZONE	1
NATURAL VENT ZONE	2
SMOKE/HEAT DETECTOR	Max 10
EMERGENCY PUSH BUTTON	Max 10 ( <i>integrated push button on the front of the control panel on IB version only</i> )
EMERGENCY CLOSING BUTTON	Max 10 (normally open contact)
EMERGENCY OUTPUT	Clean contact ( <i>e.g.: acoustic alarm</i> )
NATURAL VENT PUSH BUTTON	External ( <i>integrated push button on the front of the control panel on IB version only</i> )
RAIN SENSOR	Max 1
WIND SENSOR	Max 1
CO2 SENSOR	Max 1
THERMOSTAT	Max 1

NOTE: the summarized values on the above table might be varied according to the final installation. For any further information please contact our sales department.

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DESCRIPTION	NOMINAL CURRENT	DIMENSIONS (mm)	PUSH BUTTON	BATTERIES	PART No.
C-SV 4A	4A	300 x 300 x 150	Not included	Included	41736A
C-SV 8A	8A	300 x 300 x 150	Not included	Included	41737B
C-SV 13A	13A	400 x 400 x 150	Not included	Included	41918Z
C-SV 20A	20A	400 x 400 x 150	Not included	Included	41874H
C-SV IB 4A	4A	300 x 300 x 150	Integrated on the front of the control panel	Included	41738C
C-SV IB 8A	8A	300 x 300 x 150	Integrated on the front of the control panel	Included	41739D
C-SV IB 13A	13A	400 x 400 x 150	Integrated on the front of the control panel	Included	41919A
C-SV IB 20A	20A	400 x 400 x 150	Integrated on the front of the control panel	Included	41875I

# ACCESSORIES FOR SMOKE VENT CONTROL



## OPTICAL SMOKE DETECTOR

PART NO. 36418Q

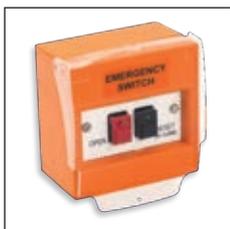
Smoke detection by infrared light diffusion for Tyndall effect. It is certified according to the UNI EN 54 - 7/9 regulations. Alarm signal through the red led.

RESPONSE TIME 3 sec approx.

VOLTAGE SUPPLY 24 V (min. 10 V, max. 30 V) TEMPERATURE RANGE  $-10^{\circ} + 80^{\circ} \text{C}$

DEGREE OF HUMIDITY  $< 95\%$  MAX AIR SPEED 10 m/s DETECTED SURFACE 40 m<sup>2</sup>

A frequent cleaning, especially in dusty environments, is recommended.



## EMERGENCY PUSH BUTTON

PART NO. 41912T

It's necessary to break the safety strip to open the glass and operate it. Emergency push button allow to control by LEDs the status of the system, reset the control panels and close the window at the end of the emergency.



## ACOUSTIC ALARM DEVICE

PART NO. 40892C

Outward self-fed siren 24 V, stainless steel box with polycarbonate cover, sonorous power 115 dB, voltage supply 24 V - 2 A, battery 12 V, 2 Ah.

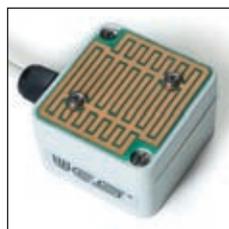
Dimensions: 236x280x99 mm



## FLUSH MOUNT DOUBLE PUSH BUTTON

PART No. 41019H

Once connected to control panel allows to operate all window for natural ventilation.



## RS RAIN SENSOR

PART No. 40450K

In case of rain, the rain sensor sends the signal for window automatic closing.



## WS WIND DETECTOR

PART No. 37185V

It emits a variable signal according to the wind intensity and acts on the control panel as the rain sensors do.



## CO2

PART No. 41773L

The CO2 sensor, if present, has the priority on the manual control. Suitable for conference and meeting rooms, offices, schools/nurseries, passive and low-energy housing.

2 switch outputs CO2 controlled for 2 stage control, with manual and automatic mode as well as display of switching status.

3x 0-10 V outputs for CO2, temperature and relative humidity.

Compatible C-SV, IB-SV only.



## TH THERMOSTAT

PART No. 40675K

The thermostat opens or closes windows when temperature settings are exceeded. Built in on/off switch.



## DIAGNOSTIC KIT (CABLE + SOFTWARE)

PART No. 41853M

In the event of anomalies or installation problems, it is possible to interrogate the C-SV control panels using a special diagnostic USB cable connected to a simple computer. A dedicated software allows you to monitor in real time the operating parameters of the control panel (primary power supply, battery voltage, etc.) and to trace the origin of any faults by reading the associated error code.

## BATTERIES FOR C-SV and C-SV IB

PART NO. 40911V

Spare part for C-SV and C-SV IB control panel 4A or 8A, formed by two pieces of 12 V, 4,5 Ah batteries.

PART NO. 41921C

Spare part for C-SV and C-SV IB control panel 13A or 20A, formed by two pieces of 12 V, 9 Ah batteries.