



CaterSense is a complete ventilation controller with built in interlock for commercial kitchens.

There are three easy to choose from models to suit your particular ventilation requirements;

CaterSense S is our standard commercial kitchen controller with built-in interlock for gas and electric cooklines.

CaterSense L has additional temperature based functionality. It will control a heater battery and a demand based system (DCKV)

CaterSense S (Standard)

- Full one-touch ventilation control
- CO₂ monitoring and control
- Fan Health monitoring
- Gas pressure proving
- Electric or gas cookline interlock
- Fire alarm interface
- Emergency stop button circuit
- 0-10V output for EC fans
- Up to two fans
- Common fault output
- Bespoke label artwork (orders over 5 units)

CaterSense L (S functions plus)

- Demand Controlled Kitchen Ventilation (DCKV)
- Heater battery control with fan run-on

CaterSense X

- Up to four fans
- Solid fuel CO system
- Timeclock
- Filter dirty indication
- Bespoke program, configured to particular project requirements

Fire Strategy

For gas and electric cooklines both supply and extract are isolated upon activation of the fire alarm.

If a fire suppression systems such as an Ansul system is fitted then the extract will remain running with the supply ventilation isolated.

For solid fuel systems extract shall remain running with the supply ventilation isolated.

Solid Fuel Safety Strategy

CaterSense X can be selected to have a solid fuel safety program for use with charcoal grilles and pizza ovens.

This uses a combination of carbon monoxide and carbon dioxide sensors to actively control ventilation, keeping levels safe.

When either carbon monoxide or carbon dioxide levels exceed a safe amount, the ventilation will increase to bring back to a safe level.

A three-hour fan run on keeps the kitchen area safely ventilated, where embers left over from cooking may continue to produce hazardous gases.

A dormant start facility ensures the kitchen and other adjacent premises are safe by restarting ventilation at anytime when levels increase past a safe point.

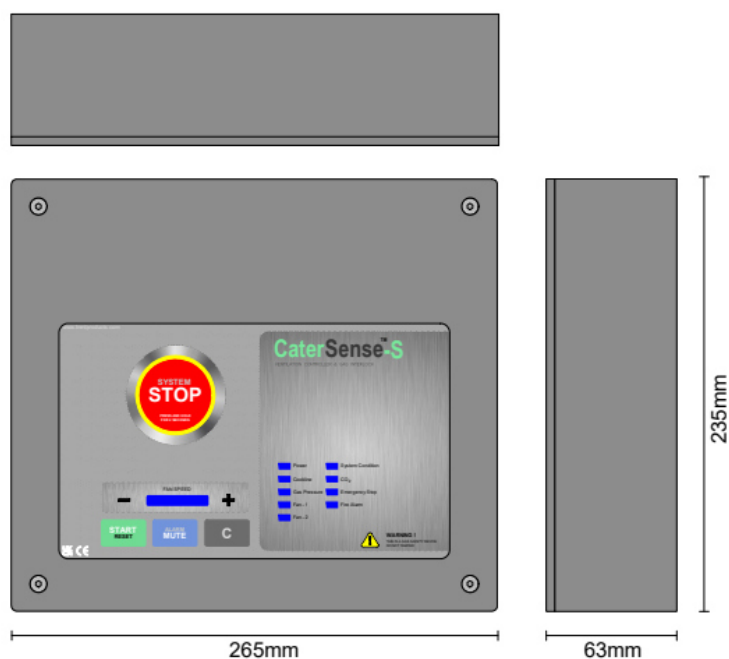
Solid fuel systems must not be switched off. In the event of power loss we recommend the installation of a battery powered carbon monoxide sensor.

Technical Data

Power consumption (unit)	5W
Power consumption (CO ₂ /temperature sensor)	2.4W
Power consumption (Gas pressure transducer)	<0.24W
Transformer power rating	10VA
Enclosure material	High Impact Polystyrene
Operating temperature	-20 to 60°C
Ingress protection rating	IP40
Recommended control cable	Belden 8723 or equivalent

Power terminals	Number	Spec. Max torque - 0.6Nm, Max conductor - Flexible 4mm ² , Solid 6mm ²
Power supply	32 (E) 33 (L) 34 (N)	250 V ~ (F4 - 1A fuse, Type T)
Power output 1 (Fan 1)	23 (E) 24 (L) 25 (N)	8.3 A 250 V ~ (F2 - 10A fuse, Type T)
Power output 2 (Fan 2)	26 (E) 27 (L) 28 (N)	8.3 A 250 V ~ (F3 - 10A fuse, Type T)
Power output 3 (Gas valve)	29 (E) 30 (L) 31 (N)	6.3 A 250 V ~ (F1 - 10A fuse, Type F)

Control terminals	Number	Spec. Max torque - 0.6Nm, Max conductor - flexible / solid 1.5mm ²
Analogue input 1 (Gas pressure)	1 (24Vdc) 2 (0-10Vdc) 3 (0Vdc)	Range 0-50mBar
Analogue input 2 (CO ₂)	5 (24Vdc) 6 (0-10Vdc) 7 (0Vdc)	Range 0-5000ppm
Analogue input 3 (Fan 1 current sensor)	S+ (0-10Vdc), S- (0Vdc)	Range 0-10Vdc
Analogue input 4 (Fan 2 current sensor)	S+ (0-10Vdc), S- (0Vdc)	Range 0-10Vdc
Discreet input 1 (Fire alarm)	9 & 10	Switched (2Vdc)
Discreet input 2 (E-stop)	11 & 12	Switched (2Vdc)
Analogue output 1 (Fan 1 speed)	13 (0-10Vdc) 14 (0Vdc) 15 (SCR)	0-10Vdc
Analogue output 2 (Fan 2 speed)	16 (0-10Vdc) 17 (0Vdc) 18 (SCR)	0-10Vdc
Discrete output 1 (Fan enable)	19 & 20	Switched VFC (24Vac/dc Max)
Discrete output 2 (BMS common fault alarm)	21 & 22	Switched VFC (24Vac/dc Max)



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For more information call our Technical Team on 01782 844688 (Option 2)