



CaterSense -03

***GAS SUPPLY CONTROL with
MULTI FUNCTION SOLUTIONS***

OPERATOR'S MANUAL

Product Overview

The CaterSense system is based on a range of products and ancillary equipment designed to meet the ever changing requirements of the catering industry and associated regulations.

The system comes in four basic modes, you have selected

CaterSense -03 intelligent controller *with fan speed control*

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1.01 How does my CaterSense unit work?

Your CaterSense unit is designed to ensure that your kitchen ventilation system is operational and maintaining the design system air flow rates for your kitchen, before your gas supply is enabled to your cooking appliances.

The CaterSense is operated via an easy wipe clean touch pad and LED indicator arrangement as indicated in figure 1.01-1.

1.02 How do I start my CaterSense?

Press the START pad on the CaterSense unit. The CaterSense will start your ventilation system, and carry out a number of system checks. If all checks are clear the gas valve output will switch on after 1 minute and open the gas valve and supply to your cooking appliances.

On certain models, the speeds of the fans can be adjusted using the UP and DOWN pads on the facia. Both fans will go up and down together at a pre-determined ratio.

If during the start up sequence the CaterSense goes into an alarm mode, please refer to section 1.05 below.

1.03 How do I stop my CaterSense?

Press the STOP pad on the CaterSense unit. The gas valve output will switch off and the gas valve will close, isolating the gas supply to your appliances.

NOTE: Always ensure that all appliances have been switched off and taps closed.

1.04 What do I do if my CaterSense does not operate?

If when you press the START pad your CaterSense does not operate,

- 1 Ensure that your kitchen canopy ventilation system is operational.
- 2 Ensure you have power to the unit; is the power on LED lit?
- 3 If not, have your supply to the unit checked by an electrician.
- 4 If power is on to the unit, refer to section 1.08 of this manual for further instructions.

1.05 What do I do if my CaterSense goes into an alarm?

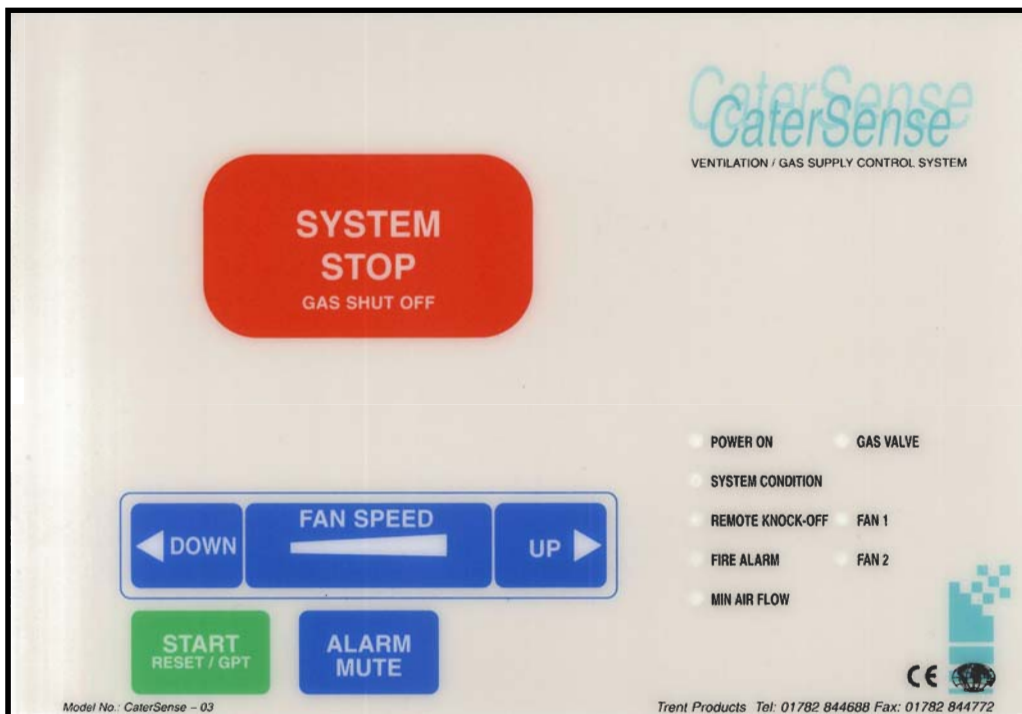
If when you press the START pad or during its operation, the CaterSense goes into an alarm mode and the audible alarm buzzer sounds.

- 1 Press the ALARM MUTE pad and the audible alarm will stop. (Note: 1.1)
- 2 Identify the LEDs which are flashing and refer to section 1.08 of this manual for further instructions.

1.06 Do I have any form of override?

Following the latest instructions from CORGI **NO** form of operator override can be provided.

1.07 CaterSense facia details



1.08 Fault finding and Alarm codes

In the event that your CaterSense has not operated or has gone into an alarm mode, the following has been designed to help you identify your problem and offer a course of action for you to take.

Fault finding Only to be carried out by a qualified engineer

Fault	Possible cause	Action
No Power On LED	<ul style="list-style-type: none"> a. No power to the unit b. Primary transformer fuse "blown" c. Secondary transformer fuse "blown" d. None of the above 	Check power supply to unit, mains cables and terminals Remove cover and check if "blown". If yes, check for any signs of a wiring fault and rectify before replacing with a new fuse. As b. above Call for further assistance
Gas valve output LED is red and gas valve is closed	<ul style="list-style-type: none"> a. The unit is in an alarm mode b. Start pad has not been pressed c. None of the above 	Check for any flashing LEDs and look-up in alarm codes below. Press STOP pad and press START pad again Call for further assistance
Gas valve output LED is green and gas valve is closed	<ul style="list-style-type: none"> a. No power to gas valve b. Gas valve not operational 	Check terminals 29/30 to see if 240Vac is present and check cables to gas valve. Check if 240Vac is present at gas valve terminals. If yes replace gas valve.
Gas valve open but no gas at appliance	<ul style="list-style-type: none"> a. Gas supply has been isolated or is blocked b. No gas pressure 	Check gas supply Check gas supply

Alarm Modes – User actions only

Flashing LED	Cause of alarm	Action
Min Air Flow	Filter / ducting / fan getting clogged	Check and clean
Fan 1 Orange	Low reading on Fan 1 power sensor	a. Check that fan is running b. Check filters and ductwork are clean c. Press STOP pad and press START pad. If system goes into same alarm, call an engineer.
Fan 2 Orange	Low reading on Fan 2 power sensor	a. Check that fan is running b. Check filters and ductwork are clean c. Press STOP pad and press START pad. If system goes into same alarm, call an engineer.
Fire Alarm	Fire Alarm input has been activated	Check and re-set alarm
Remote Knock-off	Remote knock-off has been activated	Check and re-set knock-off
System Condition	CaterSense has monitored a fault	Call an engineer to investigate







Alarm Modes – Action by Engineer only

All of the following actions must only be carried out by a qualified engineer

Flashing LED	Cause of alarm	Action
Fan 1 Orange	Low reading on Fan 1 power sensor	a,b,c See table above
Fan 2 Orange	Low reading on Fan 2 power sensor	a,b,c See table above
System Condition	CaterSense has monitored a fault	a. Check for wiring faults b. Carry-out a re-start c. Carry-out a system reset








Notes: 1.1 *Alarm Mute, if the cause of the alarm is not cleared or the alarm has not been responded to, the audible alarm will re-sound.*

1.41 - SYSTEM STOPPED

-  POWER ON
-  GAS VALVE
-  SYSTEM CONDITION
-  REMOTE KNOCK OFF
-  FAN 1
-  FAN 2

Cause:- The system has been stopped
Solution:- Press "Start" key to begin startup sequence







1.42 - FIRE ALARM

-  POWER ON
-  GAS VALVE
-  SYSTEM CONDITION
-  REMOTE KNOCK OFF
-  FAN 1
-  FAN 2
-  FIRE ALARM

Cause:- The link between terminals 9 and 10 has been broken (fire alarm activated). The fan and gas valve outputs will be deactivated. Ensure fire alarm is not activated. Check wiring to fire alarm interface panel. The system must be reset by pressing "STOP" before it can be restarted.

Solution:-






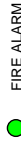
1.43 - KNOCK OFF BUTTON

-  POWER ON
-  GAS VALVE
-  SYSTEM CONDITION
-  REMOTE KNOCK OFF
-  FAN 1
-  FAN 2

Cause:- The link between terminals 11 and 12 has been broken (knock off pressed). The gas valve output will be deactivated. Ensure remote knock off button has been released. Check wiring to remote knock-off button. The system must be reset by pressing "STOP" before it can be restarted.






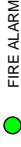
Solution:-

1.44 - FAN UNDERCURRENT

-  POWER ON
-  GAS VALVE
-  SYSTEM CONDITION
-  REMOTE KNOCK OFF
-  FAN 1 or FAN 2
-  FIRE ALARM







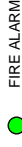
Cause:- The indicated fan is drawing less current than the minimum current established during commissioning.
Solution:- Ensure fan is working correctly. Check running current with an ammeter. Use the diagnosis mode to establish any problems with set-up. The system must be reset by pressing "STOP" before it can be restarted.

1.45 - FAN OVERCURRENT

-  POWER ON
-  GAS VALVE
-  SYSTEM CONDITION
-  REMOTE KNOCK OFF
-  FAN 1 or FAN 2
-  FIRE ALARM

Cause:- The indicated fan is drawing more current than the maximum current established during commissioning.
Solution:- Ensure fan is working correctly. Check running current with an ammeter. Check filters are clean. Use the diagnosis mode to establish any problems with set-up. The system must be reset by pressing "STOP" before it can be restarted.




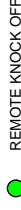


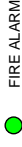
*1.46 - GAS PRESSURE FAULT 1

-  POWER ON
-  GAS VALVE
-  SYSTEM CONDITION
-  REMOTE KNOCK OFF
-  FAN 1
-  FAN 2
-  FIRE ALARM

Cause:- The system has failed its initial gas pressure test. Ensure all gas appliances are off. Check wiring to gas pressure sensor. Check gas pressure. The system must be reset by pressing "STOP" before it can be restarted.



Solution:-

*1.47 - GAS PRESSURE FAULT 2

-  POWER ON
-  GAS VALVE
-  SYSTEM CONDITION
-  REMOTE KNOCK OFF
-  FAN 1
-  FAN 2
-  FIRE ALARM

Cause:- The gas pressure has dropped below 12mbar during normal running.
Solution:- See above.

1.48 - MEMORY ERROR

-  POWER ON
-  SYSTEM CONDITION
-  REMOTE KNOCK OFF
-  FAN 1
-  FAN 2
-  FIRE ALARM

Cause:- The system has failed the test of its internal memory (tested at power on).
Solution:- The system must be recommissioned to store new values into the memory. Please contact a competent person and consult your installation manual.

If the above does not solve your problem, contact Trent Products.

* Only on modes with gas pressure proving

Notes:

FOR FURTHER TECHNICAL ASSISTANCE, PLEASE CONTACT US BY

Phone: 01782 844688

Fax: 01782 844772

E-mail: info@trentcontrols.com

Web site: www.bs6173.com

- Note:
- i) Ensure that the electrical installation has been installed in accordance with the current edition of the IEE regulations.
 - ii) Ensure that the gas installation has been installed in accordance with the current gas regulations (CORGI).
 - iii) If in doubt, ask! (contact us on or by any of the above).
 - iv) Ensure that the client has been shown how to operate the system and that they have been handed the user guide.

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