

***CaterSense the Intelligent answer***



## ***CaterSense -03***

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

***OPERATOR'S MANUAL***

# ***CaterSense the Intelligent answer***

## **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*** Multi Function intelligent controller *with fan speed control*

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### **1. 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.

### **2. 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.

### **3. 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.

### **4. 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.

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- 4 If power is on to the unit, refer to section 1.08 of this manual for further instructions.

## 5. What do I do if my CaterSense goes into an alarm?

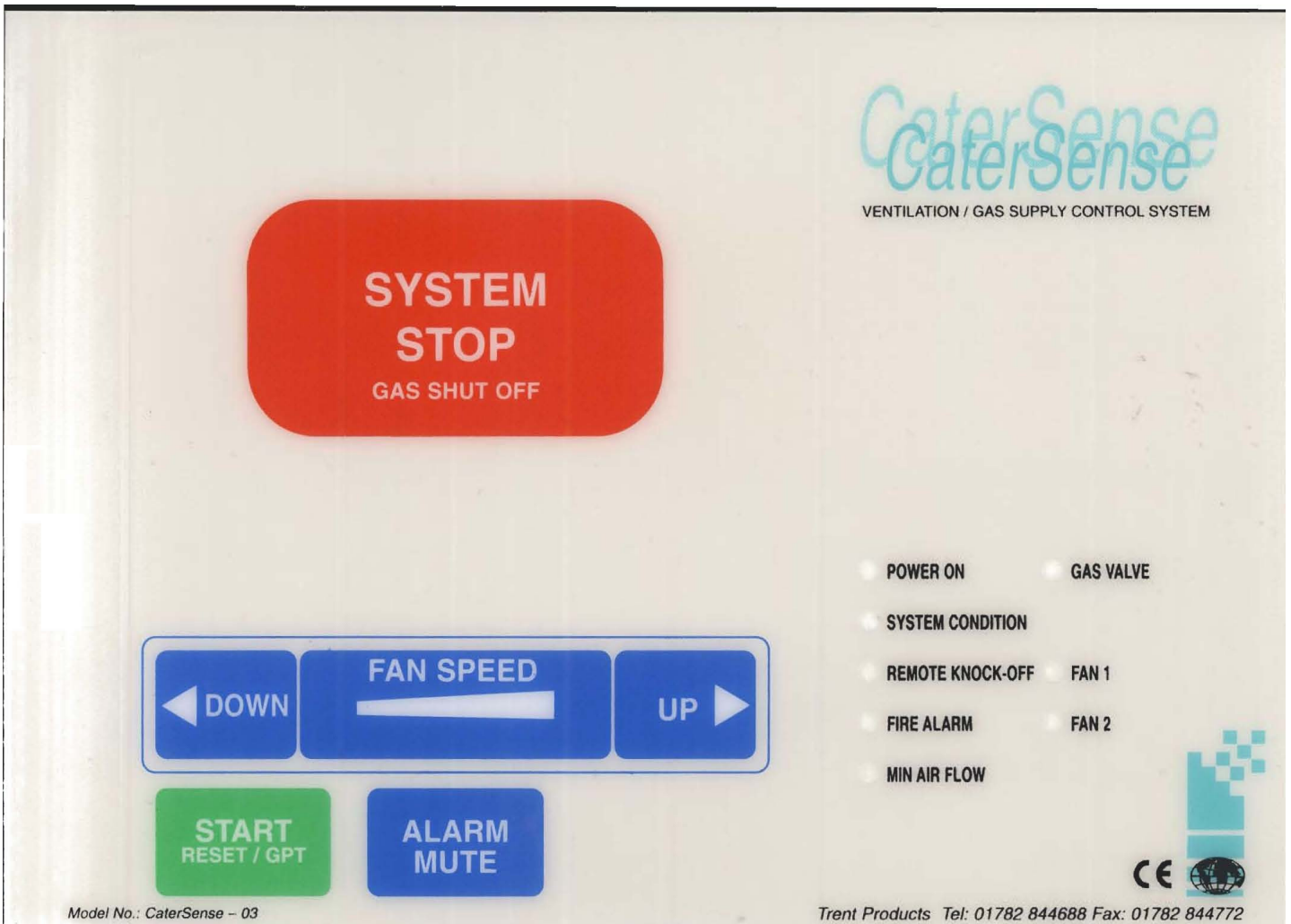
If when you press the START pad or during its operation, the CaterSense goes into an alarm mode and the audible alarm buzzer sounds.

- 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.

## 6. Do I have any form of override?

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

## 7. CaterSense facia details



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## 8. 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

<b>Fault</b>	<b>Possible cause</b>	<b>Action</b>
No Power On LED	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	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	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	a. Gas supply has been isolated or is blocked b. No gas pressure	Check gas supply Check gas supply








## 9. SYSTEM DISPLAY

### 9.1 SYSTEM STOPPED

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








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

### 9.2 FIRE ALARM

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







Cause: - The link between terminals 9 and 10 has been broken (fire alarm activated). The fan and gas valve outputs will be deactivated.  
Solution: - 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.

### 9.3 KNOCK OFF BUTTON

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

Cause: - The link between terminals 11 and 12 has been broken (knock off pressed). The gas valve output will be deactivated.  
Solution: - 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.

### 9.4 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.

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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.








## 9.5 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.








## 9.6 GAS PRESSURE FAULT 1

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

Cause: - The system has failed its initial gas pressure test.

Solution: - 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.








## 9.7 GAS PRESSURE FAULT 2

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

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

Solution: - See above.

## 9.8 MEMORY ERROR

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

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*

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**Notes:**

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FOR FURTHER TECHNICAL ASSISTANCE, PLEASE CONTACT US BY

Phone: 01782 844688

Fax: 01782 844772

E-mail: [info@trentproducts.com](mailto:info@trentproducts.com)

Web site: [www.trentproducts.com](http://www.trentproducts.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 (GAS SAFE).
  - 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.

**TRENT PRODUCTS**  
Trent House  
Dewsbury Road  
Fenton  
Stoke-on-Trent  
Tel: 01782 844688 Fax: 01782 844772