

VariSense models 01/02/03

GAS SUPPLY CONTROL with MULTI FUNCTION SOLUTIONS

OPERATOR'S MANUAL

Product Overview

The VariSense system is designed to meet the current requirements of IGEM/UP/2 revision 2 and IGEM/UP/11 revision 2.

VariSense Plant Room and Boiler House Gas Safety Interlock

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1. How does my VariSense unit work?

Your VariSense unit is designed to help ensure that your plant room or boiler house equipment is operating safely and in accordance with current regulations.

The VariSense is operated via an easy wipe clean touch pad and LED indicator arrangement or has an operator free auto start option. See section 6.

2. How do I start my VariSense?

Press the START pad on the VariSense unit. The VariSense will carry out a number of system checks. If all checks are clear the gas valve output will switch on and open the gas valve.

If during the start up sequence the VariSense goes into an alarm mode, please refer to section 5.

3. How do I stop my VariSense?

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

4. What do I do if my VariSense does not operate?

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

- Ensure you have power to the unit; is the power ON LED lit?
- 2 If not, have your supply to the unit checked by an electrician.
- 3 If power is on to the unit, refer to section 7 of this manual for further instructions.

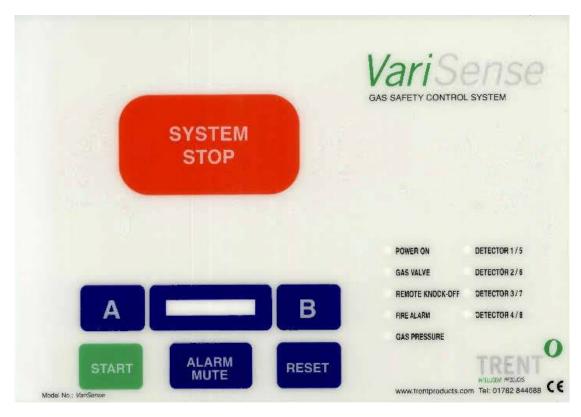
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5. What do I do if my VariSense goes into an alarm?

If when you press the START pad or during its operation, the VariSense 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 8 of this manual for further instructions.

6. VariSense facia details



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.

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7. Fault finding and Alarm Codes

In the event that your VariSense 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 No Power On LED	a.	Possible cause No power to the unit	Action Check power supply to unit is switched on. Contact a qualified electrician.
Gas valve output LED is red and gas valve is closed	a.	The unit is in an alarm mode	Check for any flashing LEDs and look-up in alarm codes in section 8.
	b.	Start pad has not been pressed	Press SYSTEM pad and press START pad again.
	C.	None of the above	Call for further assistance
Gas valve output LED is green and gas valve is closed	a.	No power to gas valve	Contact a qualified electrician.
Gas valve open but no gas at appliance	b. a.	Gas valve not operational Gas supply has been isolated or is blocked	Contact a qualified electrician.
	b.	No gas pressure	Responsible person to check gas isolation valves.

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8. Alarm Codes and System Display

9.1 - SYSTEM STOPPED

POWER ON

GAS VALVE

DETECTOR 1 / 5

DETECTOR 2 / 6

REMOTE KNOCK OFF

DETECTOR 3 / 7 (if required)

FIRE ALARM

DETECTOR 4 / 8 (if required)

GAS PRESSURE

Cause: - The system has been stopped

Solution: - Press "Start" key to begin startup sequence

9.2 - FIRE ALARM

POWER ON

GAS VALVE

DETECTOR 2 / 6

REMOTE KNOCK OFF

DETECTOR 3 / 7 (if required)

FIRE ALARM / THERMAL

DETECTOR 4 / 8 (if required)

GAS PRESSURE

Cause: - The link between terminals 9 and 10 has been broken by either the fire alarm

being activated or a thermal link has been broken. The gas valve output will

be deactivated.

Solution: - Ensure fire alarm is not activated. Check thermal links have not been

broken. The system must be reset by pressing "STOP" before it can be

restarted.

9.3 - KNOCK OFF BUTTON

POWER ON

GAS VALVE

DETECTOR 2 / 6

REMOTE KNOCK OFF

DETECTOR 3 / 7 (if required)

FIRE ALARM / THERMAL

DETECTOR 4 / 8 (if required)

GAS PRESSURE

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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.

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9.4 - DETECTOR FAULT

POWER ON

GAS VALVE

REMOTE KNOCK OFF

FIRE ALARM / THERMAL

GAS PRESSURE

DETECTOR 1 / 5

DETECTOR 2 / 6

DETECTOR 3 / 7 (if required)

DETECTOR 4 / 8 (if required)

Cause: - One or more of the detectors have reached the switch output setpoint. The

gas valve output will be deactivated.

Solution: - Carry out necessary precautions and contact a qualified engineer to

investigate.

9.5 - GAS PRESSURE FAULT

POWER ON
 GAS VALVE
 DETECTOR 2 / 6
 REMOTE KNOCK OFF
 DETECTOR 3 / 7 (if required)
 FIRE ALARM
 DETECTOR 4 / 8 (if required)
 GAS PRESSURE

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

Solution: - Ensure all gas appliances are off. Check gas pressure. Check wiring to gas

pressure sensor. The system must be reset by pressing "STOP" before it

can be restarted.

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

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Notes:

VS-OPM 0.001 Model: VariSense

FOR FURTHER TECHNICAL ASSISTANCE, PLEASE CONTACT US BY

Phone: 01782 844688

Fax: 01782 844772

E-mail: info@trentproducts.com

Web site: www.trentproducts.com

Ensure that the electrical installation has been installed in Note: i) accordance with the current edition of the IEE regulations.

Ensure that the gas installation has been installed in

ii) accordance with the current gas regulations (GAS SAFE).

iii) If in doubt, ask! (contact us on or by any of the above).

Ensure that the client has been shown how to operate the iv) 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

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