medem VPS-K

Installation Instructions

The Model VPS-K is designed to ensure that any kitchen ventilation fans fitted, for the purpose of removing cooking fumes from the kitchen area, are running before gas for cooking can be switched on. Supply air fans must also be running for gas to be available.

(Note: The VPS-K is designed for use when all cooking appliances are fitted with flame failure devices. Should any cooking appliance not be fitted with an FFD, then the model VGPS-K should be used to ensure compliance with BS 6173 : 20019)

It is designed for use primarily in kitchens.

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- Ventilation interlock

- Remote emergency stop

- Clear easy to read LCD display

- 5 year warranty - 10 years when commissioned

VPS-K Features

Before commencing installation please familiarise yourself to the equipment by reading the comprehensive installation instructions. If in doubt then please call 0161 233 0600. Out of hours please call 07894 684080 or 07843 355163.

It is a statutory requirement that this safety system is installed and commissioned to the satisfaction of the manufacturer.

A commissioning certificate must be issued to the end user along with instructions for the operation of the equipment.

As the Manufacturer Medem UK should commission this safety system whereupon a commissioning report will be forwarded to the installing agent who should provide a copy to the end user.
At the point of our commissioning an individual serial number will be attached to the system along with a 24 help line number. Photos and all relevant information for the installation will then be stored on the Medem site database to be accessed in the event of a call on the 24 hour help line. The warranty period for the panel and sender unit will then be extended to Ten years.

medem VPS-K

Gas pressure proving and ventilation interlock system

The VPS-K system comprises of a mains powered main control panel, and must be used in conjuction with either current monitor or air flow pressure switches in order to interlock the ventilation.

Note: the system **only monitors the ventilation** in order to correctly control the gas supply, the system does not control the ventilation itself.
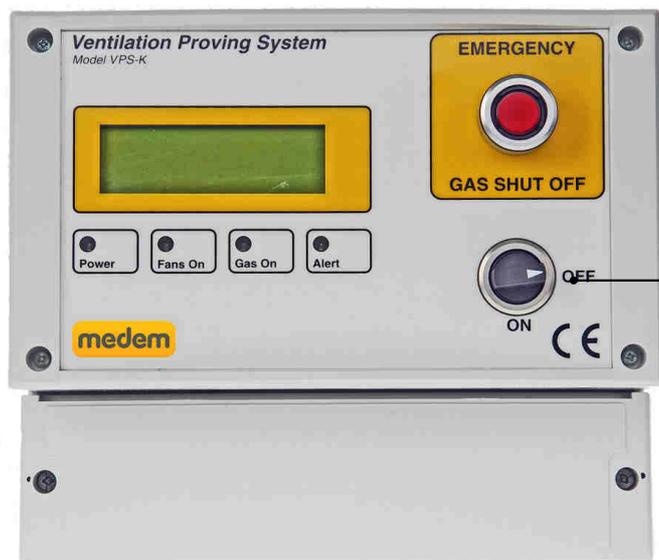
> **System On/Off** enables gas detection and use of each service button

Current Monitor used for interlocking the ventilation to the VPS-K system

Control Panel

The front of the panel has the following controls and indications:
   Emergency stop button.
    System On/Off switch.

LED indications:
    Power On - green
    Fans On - red
    Gas On - red
    Alert – yellow

LCD display:
    For displaying system status during both installation and normal use, also for displaying diagnostics

All low voltage connections require screened Belden type security cable or 600v rated BMS cable (max cable length of 100meters.)
Warranty will be void if Fire Protection Cable or cable over 1mm dia. is used on the SELV side.

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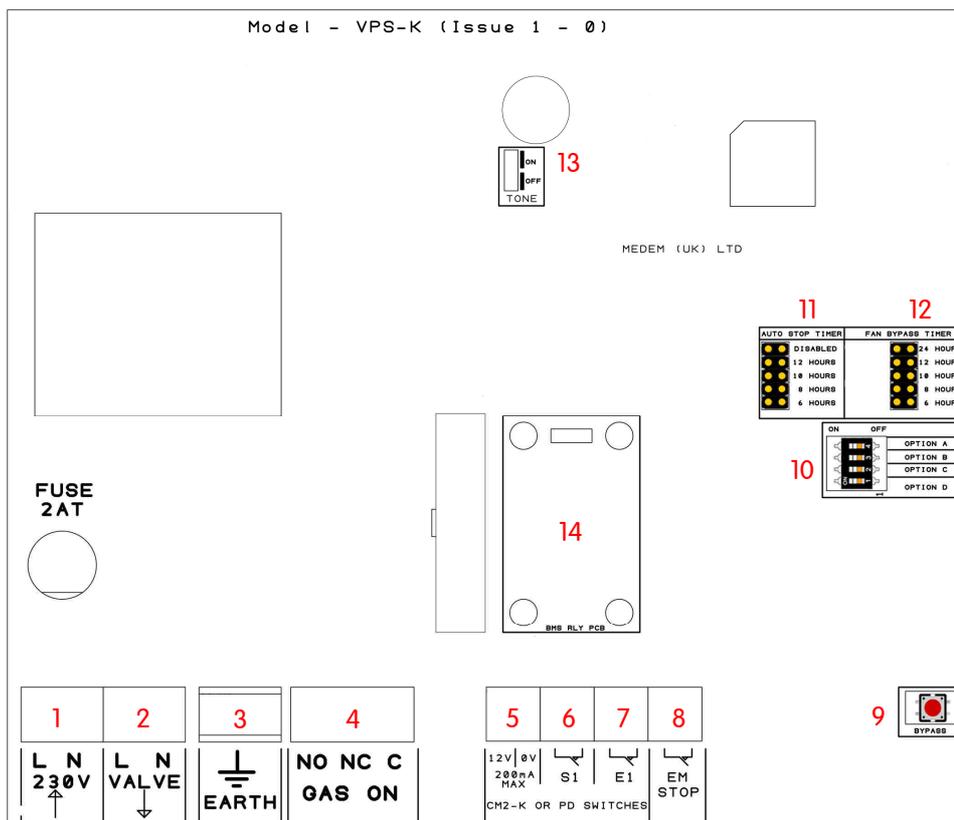
Power at 230 volts from a 3amp fused spur
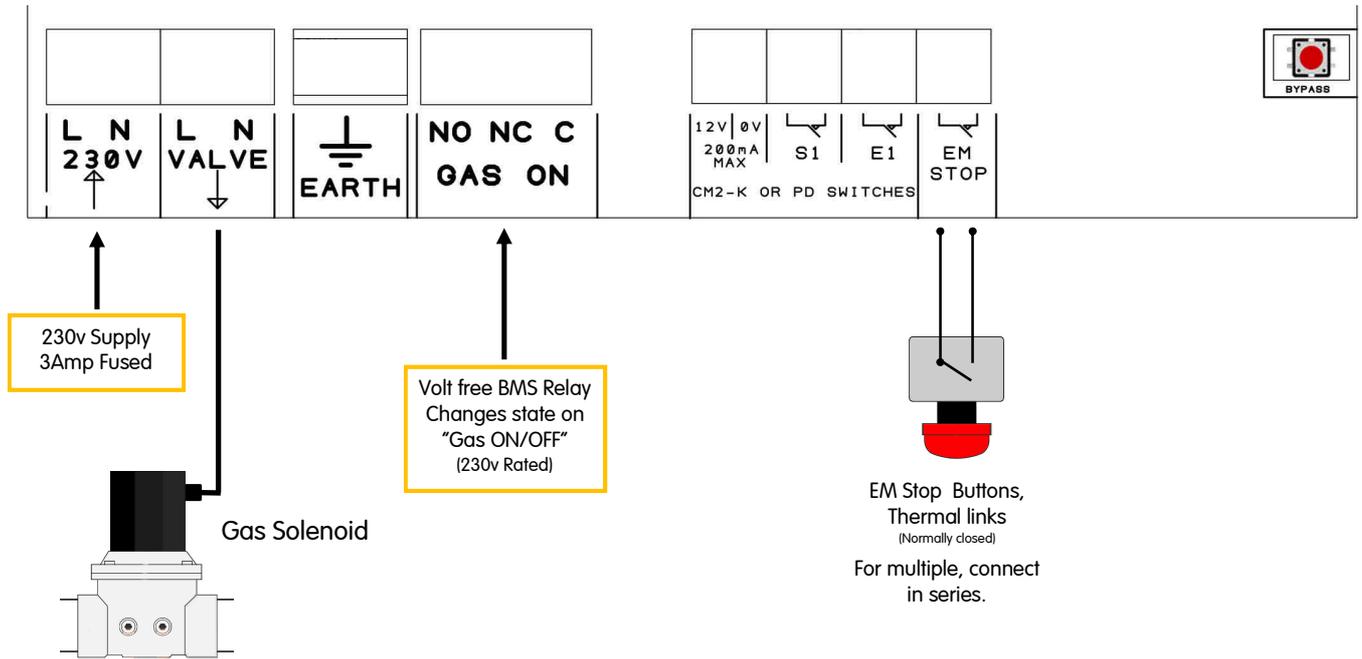
Connections to panel: marked on board

1. Live & Neutral 230 volts supply from 3amp switched fuse spur
2. 230 volts out to gas solenoid valve
3. Earth connection terminals
4. Mains rated potential free relay which changes states on "Gas ON" for use with BMS
5. 12 volt power for current monitor (CM2M-K)
6. Extract fan interlock for current monitor (CM2M-K) or PD switches.
7. Supply fan interlock for current monitor (CM2M-K) or PD switches.
8. Emergency Stop terminal SELV (requires a N/C contact).
9. Diagnostic Function: "Fan commissioning" disables ventilation interlock, for use during setup (timed function set by 12)
10. OPTA =
    OPTB =
    OPTC =
    OPTD =
11. Auto Stop setting (default disabled)
12. Fan commissioning timer adjustment (default 24hrs)
13. Internal tone - enable/disable.

11, 12 Option Headers
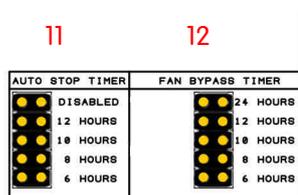
11. The auto-stop timer function allows the system to be set to turn the gas off after a pre-determined period of time. This is to help ensure the gas can not be left on and available while unattended i.e. over night, or between lessons (default is disabled)

12.Fan timer setting. When using the "bypass" button (14) to allow commissioning of the gas supply without interlocking the ventilation, the period of isolation can be adjusted using these headers (default 24 hours)

medem VPS-K

L N 230V	L N VALVE	⏚ EARTH	NO NC C GAS ON	12V 0V 200mA MAX	S1	E1	EM STOP

CM2-K OR PD SWITCHES

BYPASS

230v Supply
3Amp Fused

Gas Solenoid

Volt free BMS Relay
Changes state on
"Gas ON/OFF"
(230v Rated)

EM Stop Buttons,
Thermal links
(Normally closed)

For multiple, connect
in series.

Earth Connections not shown

Fan Interlock Connections

L N 230V	L N VALVE	⏚ EARTH	NO NC C GAS ON	12V 0V 200mA MAX	S1	E1	EM STOP

CM2-K OR PD SWITCHES

BYPASS

6 core low voltage
+/- 12v Power
S1 = Supply Fan N/C contact
E1 = Extract Fan N/C contact

Fan speed
controls

fans

Current Monitor
Model CM2M-K

DANGER
ISOLATE ELSEWHERE

medem   C E

Fan live
Supply

Where using 3 phase fans
interlock on a single phase

Live feed through the
Medem CM2M-K channel current
Monitor

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Single Stop Buttons

Remote stop buttons can be connected to the panel terminal marked as "EM STOP" (number 6).

The remote buttons must be wired as shown in order to provide a "closed contact" for the control panel.

If thermal links are to be installed these should be wired in series with the EM stop buttons

To EM Stop connections in the panel


Use terminal TB2 A & C
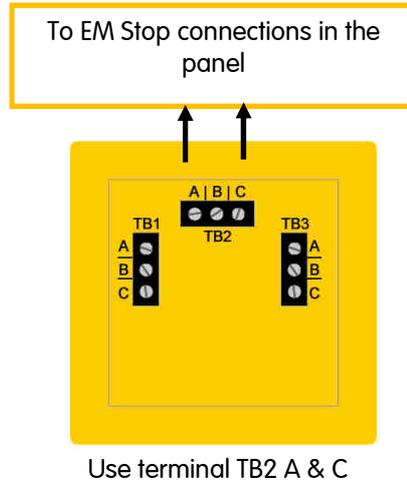
Multiple Stop Buttons

Multiple stop buttons are wired in series.

If thermal links are to be installed these too should be wired in series with the EM stop buttons

To EM Stop connections in the panel

Use terminals TB2 A & C   Use terminals TB2 A & C
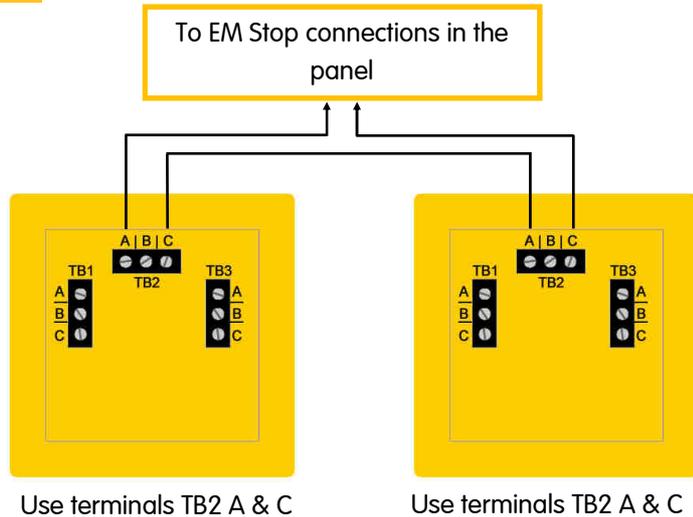
Resetting (indicator bar)

The stop buttons supplied by Medem are of a "Push Glass, key resettable" style, when activated a yellow indicator bar will show and the unit will require resetting using the key provided.

Indicator bar shows when pressed

Normal   EM-Stop Activated

VPS-K
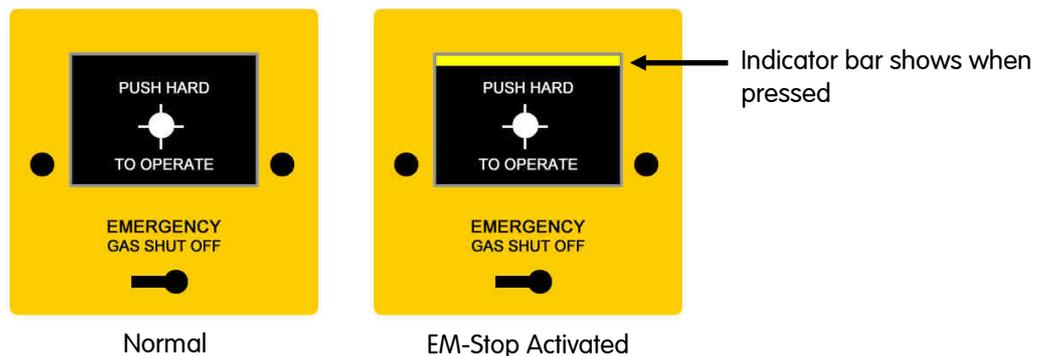
Warranty

Medem (UK) Limited
Project House
19 Dallimore Road
Manchester
M23 9NX

Tel: (0) 161 233 0600
Fax: (0) 161 233 0601
Web: www.medem.co.uk
E-mail: sales@medem.co.uk

Medem UK Warranty
Terms & Conditions

1. The warranty is a parts warranty and Medem UK Ltd will not cover or accept any labour or other expenses that may be incurred in the process of changing faulty product.

2. All panels and sender units are covered by a five year warranty.

3. Gas detector units and other remote detectors carry a two year warranty. Installation of the detectors should not be undertaken until all building and construction work is completed.

4. Gas solenoid valves carry the original manufacturers warranty, though as the supplier Medem UK will exchange faulty valves for return to the manufacturer.

5. Where a Medem UK engineer (or another company appointed by Medem UK) commission and installed system then that system will carry a ten year warranty. This applies to the main panel and the sender unit. At the time of commissioning a security label with a serial number will be attached to the main panel box. photographs and a comprehensive record of the installation will be held by Medem UK.

6. Where a warranty claim is made then, where appropriate, a written order to attend site must be provided to Medem UK A cost for labour and travel to site will be prepared as a quote. The cost must be included in the order.

7. Where it is found that the installation and/or the quality of workmanship has contributed to or wholly caused the failure of the product then we reserve the right to charge the whole or a proportion of the cost of the faulty item.