

Ventilation Gas Proving System with CO₂ Monitoring

VGPS-evo



MODERN PLANT

The Home of
Control & Automation
in Ireland

medemTM

Ventilation Gas Proving System with CO₂ monitoring



The VGPS-evo offers a complete single panel package patented by Medem UK.

The system is very easy to use with an LCD display which gives solutions and full status information.

The system ensures that all fans are running before gas can be used. It also carries out a gas pressure prove on the cook line and continually checks the incoming gas pressure for low and high level status.

When fitted with a Medem carbon dioxide detector it will monitor the CO₂ level to ensure adequate ventilation in accordance with HSE set levels are not exceeded.

Should the carbon dioxide level rise above 2,300ppm the panel LCD will advise the staff to "increase the ventilation fan speed at the speed controllers". The maximum allowed level of carbon dioxide is 2,800ppm, at this level the system will isolate the gas and advise the staff to ventilate the kitchen.

Gas pressures and carbon dioxide levels can be displayed on the LCD by pressing the "Power" or "Alert" LED on the fascia.

Design Features



Extremely simple to use, LCD panel tells the operator its status and what to do.

Designed from listening to our clients requirements, including kitchen staff.

Gas pressure measuring, patented true differential pressure across the solenoid valve.

No nuisance tripping of the gas supply as can happen with mechanical switches.

An engineer, as a guidance, can see kitchen & valve seat gas leakage on the LCD.

All panels designed built and supported by Medem UK

24 hour kitchen support line on the panel for peace of mind.

Compact design, H183mm, W212mm, D97mm.

Easy to install, no setting or mechanical pressure switches for each site.

Turnkey package, including installation is available if required.

Carbon Dioxide monitoring advises staff to increase ventilation.

“Tells the kitchen staff what to do”



This panel is **unique** in the way it operates and has been designed as a result of experience in commercial kitchens and from listening to kitchen users and engineers.

The VGPS-evo is **self diagnosing** in that it displays on the **LCD screen** what is happening in relation to the kitchen fans, gas status, the appliances and emergency stop buttons in the kitchen. On turning on the VGPS-evo provided the fans are operating correctly and there are no leaks on the gas line in the kitchen, or appliances switched on the LCD will read “system testing” and then “gas on”.

The power, fans on and gas on LED's will be illuminated. If the fans are not switched on or a gas appliance is open, an emergency shut off has been pressed or there is a gas pressure issue then the “alert” LED will flash and a message informing the kitchen operative and how to correct it will appear on the screen.

Panel Function

The VGPS-evo measures 183mm high, 212mm wide by 97mm deep. It ensures that any **mechanical ventilation** is switched on before allowing gas to be used in the kitchen. This can be achieved using the **2 channel current monitor** unit which is a much more reliable method of interlocking compared to pressure differential switches although PD switches can be used if preferred. The VGPS-evo is also a Gas Pressure Proving system and is designed around unique electronic pressure measuring technology, **measuring true differential pressure** on both sides of the valve (patented by Medem UK), which eliminates the problems associated with the traditional “pressure switch” and other methods. The system also measures the **CO₂** in the kitchen as stated by the **HSE**. The maximum CO₂ level allowed in the kitchen is **2,800ppm**. The system pre alarms (internal sounder is fitted) at **2,300ppm** and via the LCD display tells the kitchen staff to increase fan speeds. If the level rises to **2,800ppm** then the system will isolate the gas supply and advise that the kitchen needs more ventilation. The system can be fitted with a key switch and can be adjusted to automatically switch off after a given time. A fire alarms and a signal to a BMS can be connected to the system.

Engineer functions

By pressing the “Power” or the “Alert” button on the panel the carbon dioxide or gas pressure level will be displayed on the LCD. A solenoid valve let by test can be carried out from the panel with any downstream pressure drops seen on the LCD.

It is also often possible to identify a problem governor from the panel with fluctuating gas pressures displayed and an isolation should the incoming gas pressure reach 75mbar or higher.



VGPS-evo



Technical data sheet

Ventilation & Gas Proving System, CM2M-K Current Monitor & the AD-MED-CO2 detector

The **VGPS-evo** comprises of a control panel and a pressure sender unit. Up to four carbon dioxide detectors can be connected to control a 230volt gas solenoid valve.

The control panel housing is an ABS enclosure, rated IP65, measuring 183mm high, 212mm wide & 97mm deep.

The pressure sender unit and the gas solenoid valve are supplied with a fixing kit for connection on site.

The pressure sender unit is wired to the control panel using single pair extra low voltage wire.

The carbon dioxide sensors (AD-MED-CO2) are wired back to the panel using four core extra low voltage cable marked (MB, MA, +VE, 0V)

The connection terminals are marked "A & B" on both the sender unit and control panel connections.

The 230volt mains supply to the panel should be from a 3amp fused spur.

The solenoid valve is connected to the terminals marked "Valve" on the panel.

The connections marked "EM STOP" are provided in order that extra emergency stops can be operated by the panel. Wiring of emergency stop buttons should be series normally closed, low voltage

Shielded stop buttons that comply with BS6173/2009 are available from Medem UK.

At the time of installation adjustments to the system can be made to suit the individual site, these include: autostop timer, alarm sounder on/off, fill time and prove time for pressure proving. carbon dioxide alarm level adjustment . All are factory set for a typical kitchen.

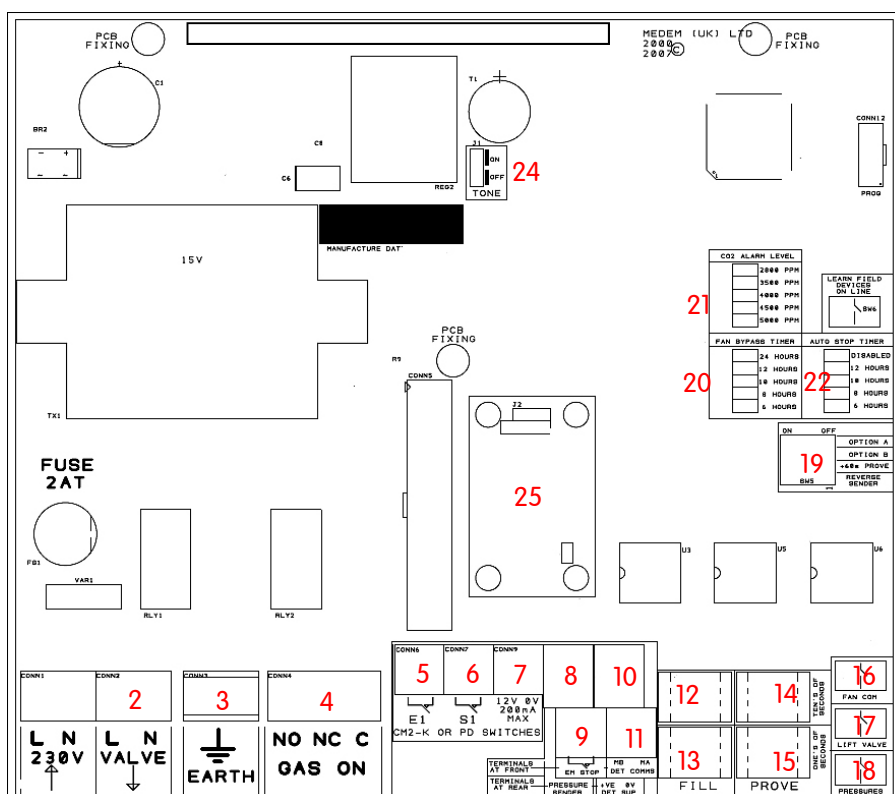
Engineer functions, a let by and a dynamic pressure loss reading can be activated by the engineer using the push buttons on the circuit board or display. The Gas pressure readouts appear on the LCD display indicating the pressure on both sides of the valve. The carbon dioxide levels can be seen by pressing the "Alert" box on the panel.

The AD-MED-CO2. Up to four carbon dioxide detectors can be connected to the panel; by pressing the "Alert" box on the panel each connected sensors reading can be seen on the LCD. The sensors should be function checked every 6-12 months although they have a design life of 10 years. If more than one detector is fitted then they can be daisy chain connected.

The CM2M-K is a two channel current monitor which connects to the VGPS-evo by means of a 6 core low voltage cable. Each CM2M-K has two channels. The live supply to the fan speed controllers is connected through a channel of the CM2M-K. The sensitivity to current flow is adjustable, all units are factory preset to the most sensitive setting.

Dimensions are 130mm square and 60mm deep. Cable entry can be made through the sides or back.

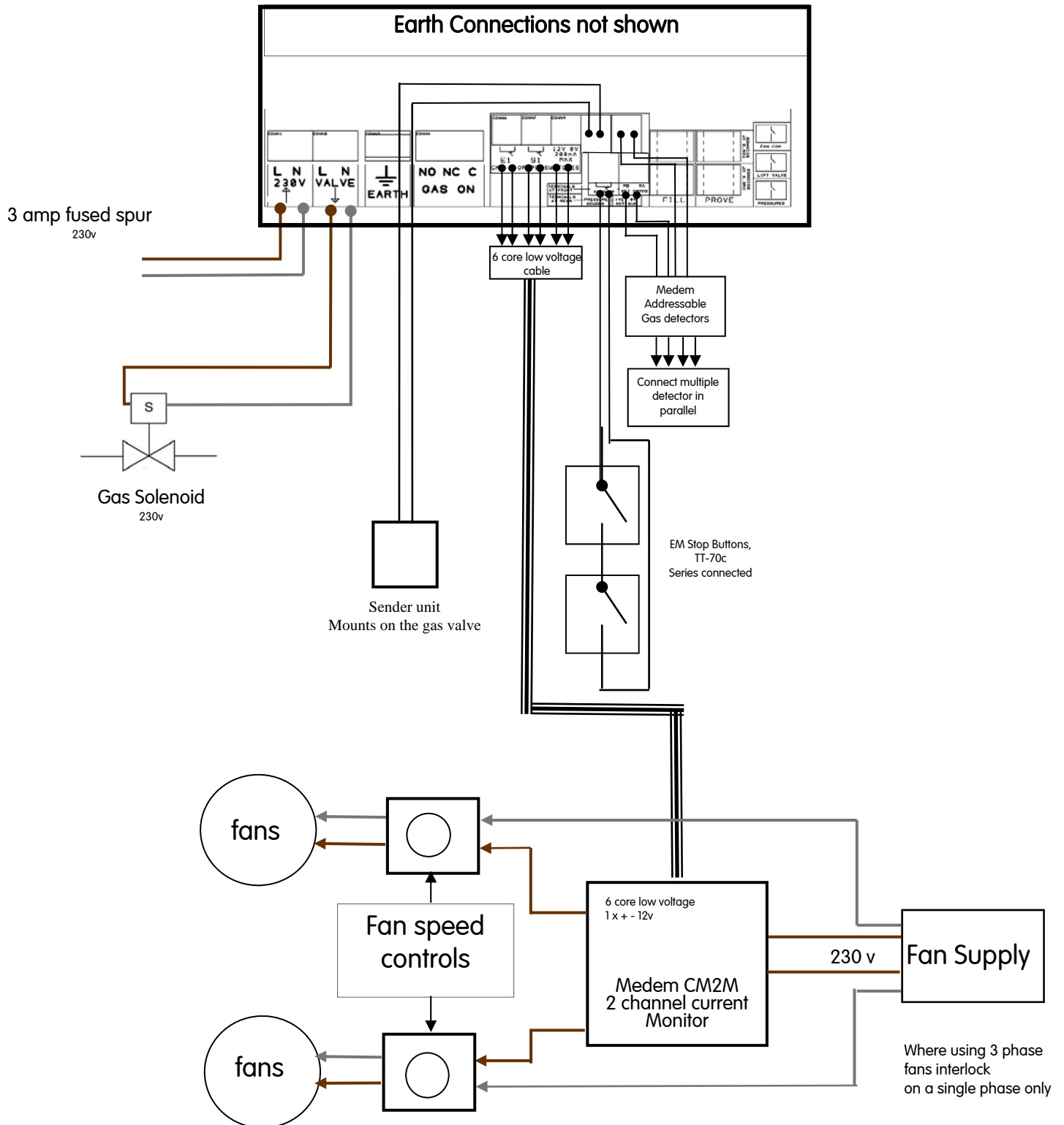
The alternative to current monitoring is to use pressure differential switches, these are available from MEDEM UK but these are not a reliable solution when compared with current monitoring which has quickly become accepted in the industry as the best way to interlock.



Power at 230 volts from a 3amp fused

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. Extract fan interlock for current monitor (CM2M-K) or PD switches.
6. Supply fan interlock for current monitor (CM2M-K) or PD switches.
7. 12 volt power for current monitor (CM2M-K)
8. Pressure sender unit SELV and comm's both through "A" & "B" terminals (2 wire) **MUST BE FITTED**.
9. Emergency Stop terminal SELV (requires a N/C contact).
10. Power connections for CO2 detectors.
11. Comms connections for CO2 detectors
12. Fill time - "Tens of Seconds"
13. Fill time - "One's of Seconds"
14. Prove time - "Tens of Seconds"
15. Prove time - "One's of Seconds"
16. Diagnostic Function: "Fan commissioning" disables ventilation interlock, for use during setup (timed function set by 20)
17. Diagnostic Function: Lift valve - applies 230volts to power open the gas valve.
18. Diagnostic Function: Displays inlet and outlet gas pressure at the gas valve.
19. OptB, Allow BMS relay (5) to change state on high CO2
- +60seconds - Adds an additional 60 seconds to the prove time for large pipe work installations
- Reverse sender - Allows the inlet/outlet signals to be switched (use under guidance from Medem)
20. Fan commissioning timer adjustment (default 24hrs)
21. CO2 Alarm level adjustment (factory set to 2800ppm, as per HSE regulations)
22. Auto Stop setting (default disabled)
23. Learn field device button, press once only when all detectors are connected and powered (verify with button 16).
24. Internal tone - enable/disable.



Please read this sheet as it contains important information

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.

Ventilation and Gas Pressure Proving System with CO2 Detection

The VGPS-evo is a gas pressure proving system designed to ensure that there are no gas leaks downstream of the control valve at switch on. The system includes ventilation interlock which will ensure that any mechanical ventilation connected (supply or extract) is running before the gas can be used, when installed with AD-MED-CO2 sensors it will also monitor the atmosphere for CO₂. The system comprises of a mains powered panel capable of operating up to four CO₂ sensors and a pressure sender unit. The sensors are pre-calibrated by Medem (UK) Ltd such that they only require to be addressed then connected to the panel and functionally tested. The ventilation is interlocked via a MEDEM current monitor model CM2M-K (separate) or mechanical air flow switches.

The system monitors the ventilation status and then carries out a downstream integrity check on the supply line. It continually checks that the incoming gas pressure is sufficient and that the ventilation is switched on. It also monitors the carbon dioxide level to ensure that the HSE set levels are not exceeded (HSE catering sheet 23 revision 1).

Should the carbon dioxide level rise above 2300ppm the panel LCD will advise the staff to "increase ventilation". Should the maximum allowed level of carbon dioxide (2800ppm) be reached the system will isolate the gas (after 45 seconds) and advise the staff to ventilate the room.

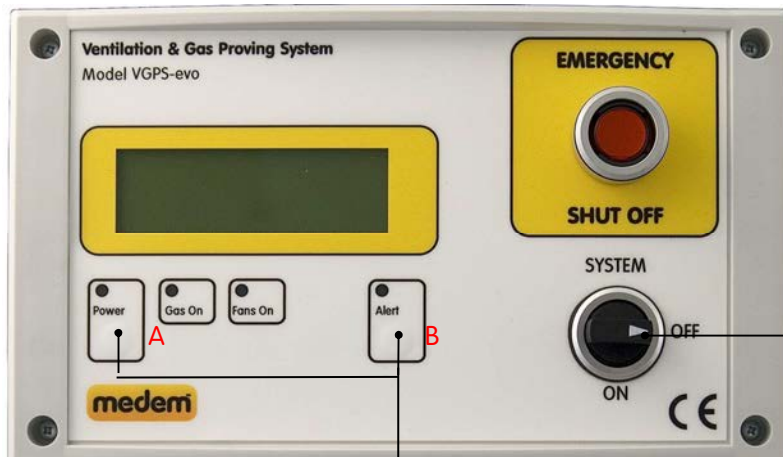
Gas pressures and carbon dioxide levels can be displayed on the LCD by pressing the 'blind buttons' by the 'gas on' and 'alert' LED's on the fascia. (see below)

Control Panel *the front of the panel has the following controls and indications:*

Emergency stop button
On/off switch
Blind buttons **A** and **B**

LED indications:

Power On - green
Fans On - red
Gas On - red.....blind button for displaying gas pressures on the LCD screen
Alert - yellow.....blind button for displaying connected CO2 detectors on the LCD screen



System On/Off

Switch to on to begin gas pressure test

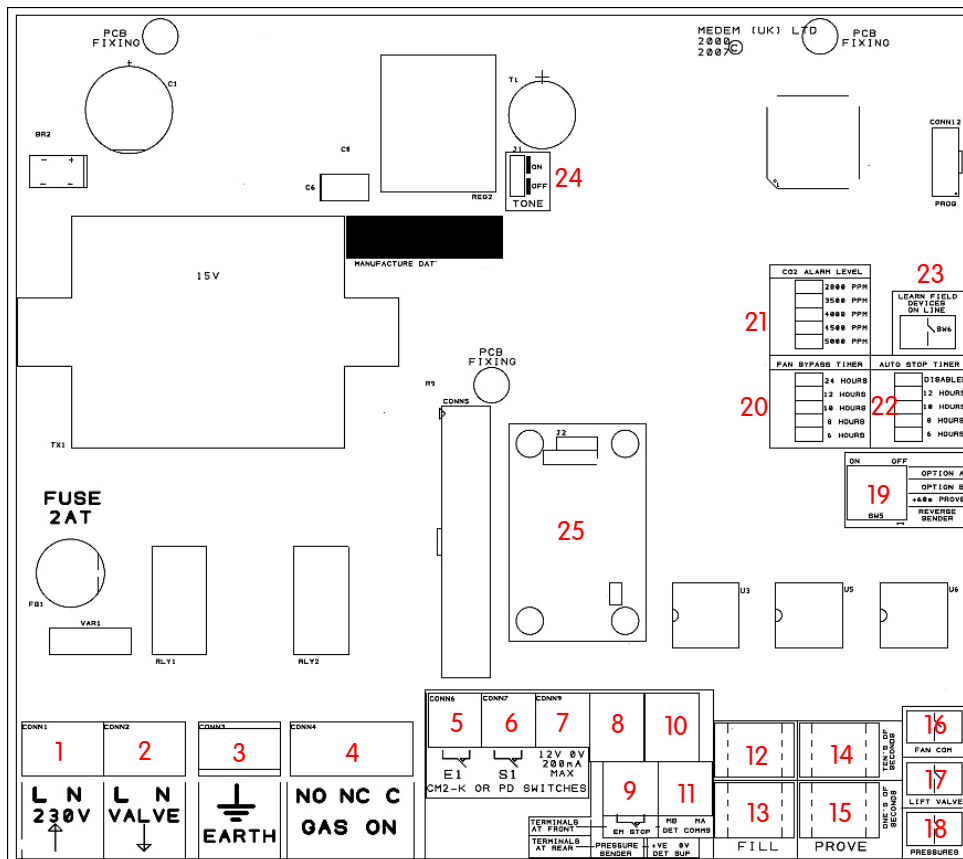
A Blind button for displaying gas pressures on the LCD screen
B Blind button for displaying CO2 detectors reading on the LCD screen.

Other points to note

The maximum cable length between a detector and the control panel should not exceed 100 metres, If the distance between the main panel and the detectors is greater than 20metres 1mm cable should be used on the +VE, 0v terminals.

Pressure Sender Unit Mounting. This has an inlet and an outlet port (1/4 inch NPT). The inlet must be connected to the inlet test point on the solenoid valve (see fitting kit page) and the outlet port after the solenoid valve typically using 8mm OD copper pipe. Use the appropriate Medem fitting kit to fit the control valve size. The pressure sender is connected to the control panel with low voltage two core cable using the terminal marked A & B. **NOTE: This is low voltage and should be segregated from mains wiring.**

Power at 230 volts from a 3amp fused spur



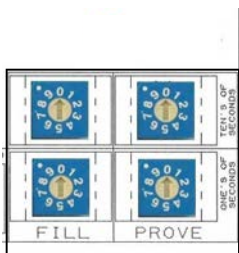
Connections to panel: marked on board

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. Extract fan interlock for current monitor (CM2M-K) or PD switches.
6. Supply fan interlock for current monitor (CM2M-K) or PD switches.
7. 12 volt power for current monitor (CM2M-K)
8. Pressure sender unit SELV and comm's both through "A" & "B" terminals (2 wire) **MUST BE FITTED**.
9. Emergency Stop terminal SELV (requires a N/C contact).
10. Power connections for CO2 detectors.
11. Comms connections for CO2 detectors
12. Fill time - "Tens of Seconds"
13. Fill time - "One's of Seconds"
14. Prove time - "Tens of Seconds"
15. Prove time - "One's of Seconds"
16. Diagnostic Function: "Fan commissioning" disables ventilation interlock, for use during setup (timed function set by 20)
17. Diagnostic Function: Lift valve - applies 230volts to power open the gas valve.
18. Diagnostic Function: Displays inlet and outlet gas pressure at the gas valve.
19. OPTA ON = Hi CO2 isolation, OPTA OFF = Low CO2
OPTB ON = No Gas isolation due to High CO2, OPTB OFF = EM Stop On
If OPTA & OPTB are both off then the BMS relay changes to both EM-Stop and CO2 alerts states.
+60seconds - Adds an additional 60 seconds to the prove time for large pipe work installations
Reverse sender - Allows the inlet/outlet signals to be switched (use under guidance from Medem)
20. Fan commissioning timer adjustment (default 24hrs)
21. CO2 Alarm level adjustment (factory set to 2800ppm, as per HSE regulations)
22. Auto Stop setting (default disabled)
23. Learn field device button, press once only when all detectors are connected and powered (verify with button 16).
24. Internal tone - enable/disable.
25. Optional BMS to indicate EM stop. State controlled by OPTA & OPTB (Not fitted by default - must be requested at point of order)

System Features in Detail



- 25. BMS Relay PCB.** For connection to a BMS to indicate, Low CO₂ alert. Max switching 48 volts 1 amp (not fitted by default)
(Factory fit, must be fitted at point of order)
Switch OptB (19) Allow this to change state to High CO₂ alert



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- Gas Fill Time.** The Fill Time should be set such that there is sufficient time to fill an empty pipe work system to full / normal pressure while ensuring a minimum escape of gas where a leak exists.

- Gas Prove Time.** This should be set such that the smallest leak can be detected. This time can be set up to a maximum of 99 seconds. Increasing this time effectively makes the system more sensitive to gas leaks. (Factory default setting is 50 seconds). An extra 60 seconds prove time can be added onto the 99 seconds by adjusting the DIP switch under the options bank, see No 19.

16

17

18



- 16. Fan commissioning:** This is for use during setup & commissioning to temporary disable the ventilation interlock this allows a gas engineer to work on the system even if the ventilation system hasn't been completed.

- 17. Diagnostic Function: Lift valve -** applies 230volts to power open the gas valve. This allows you to manually pressurise upstream of the valve.

- 18. Diagnostic Function:** This will display both the inlet and outlet gas pressure at the gas valve on the LCD screen. This allows a visual indication of the gas tightness of the installation as well as an indication of the solenoid function. The same action can be preformed by pressing display "blind button A".

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20



- 20. CO₂ high level alarm adjustment,** this is factory set as per HSE regulations to 2800ppm. The system will report a low level alert at a reading of 2300ppm, if the high level of 2800ppm is reached the system will isolate the gas supply

- 21. Auto stop timer to isolate gas after set length of time.** (Factory set to disabled)

- 22** 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 availa-

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Learn Field devices



Any gas detectors connected to the system will require "learning". First ensure all detectors are set to a unique ID address using the selector switch on the detectors themselves (**address's 1 to 4 only**). Having addressed each detector press the learn field devices button (**21**), the system will scan and store any connected detectors. To verify that all detectors have

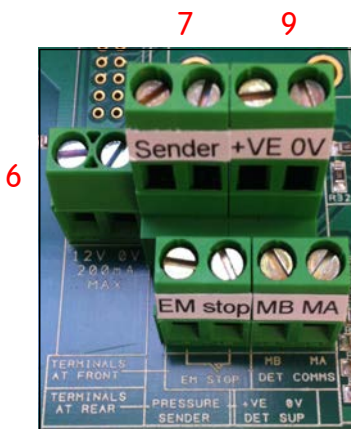


Blind buttons On Front Panel

For easy access when setting up and telephone support there are two blind buttons on the front panel behind the label.

A: Display gas pressures, see button **18**.

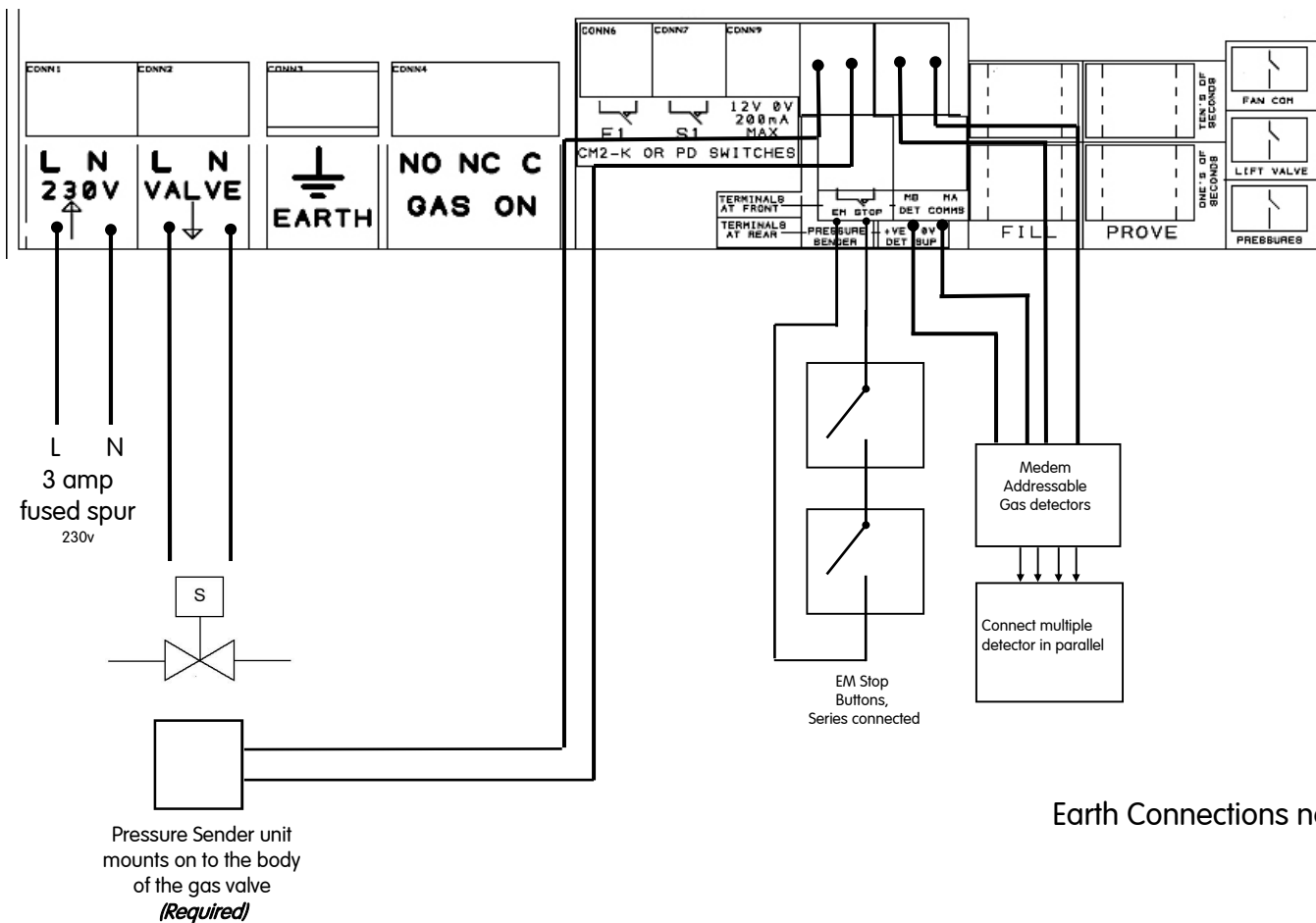
B: Display detectors. Pressing and holding this button will display the currently connected and learnt detectors on the LCD screen, it will show the ID and the CO2 reading.



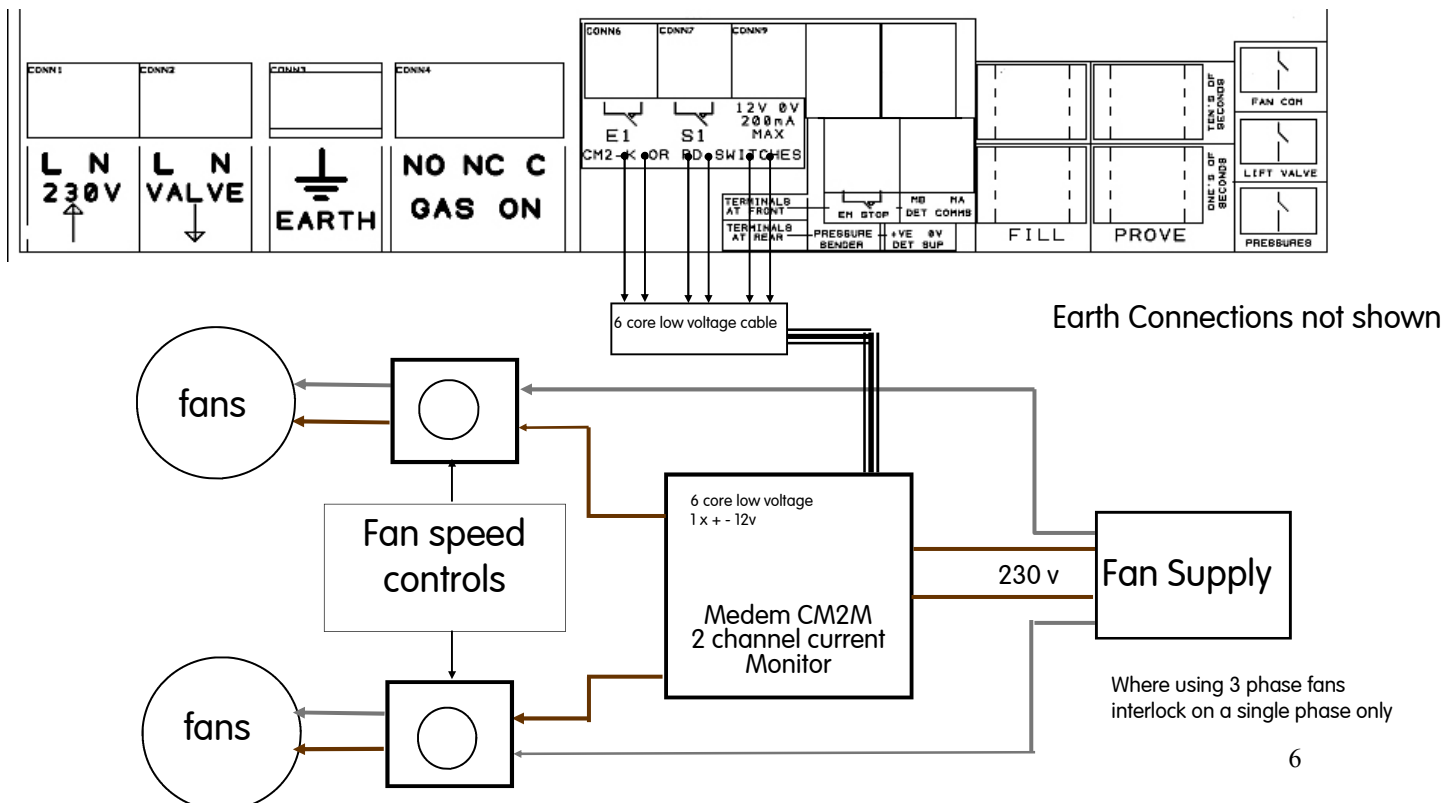
Terminals

For connecting the gas pressure sender unit, any remote em-stop buttons and Medem's AD-MED-CO2 sensors.

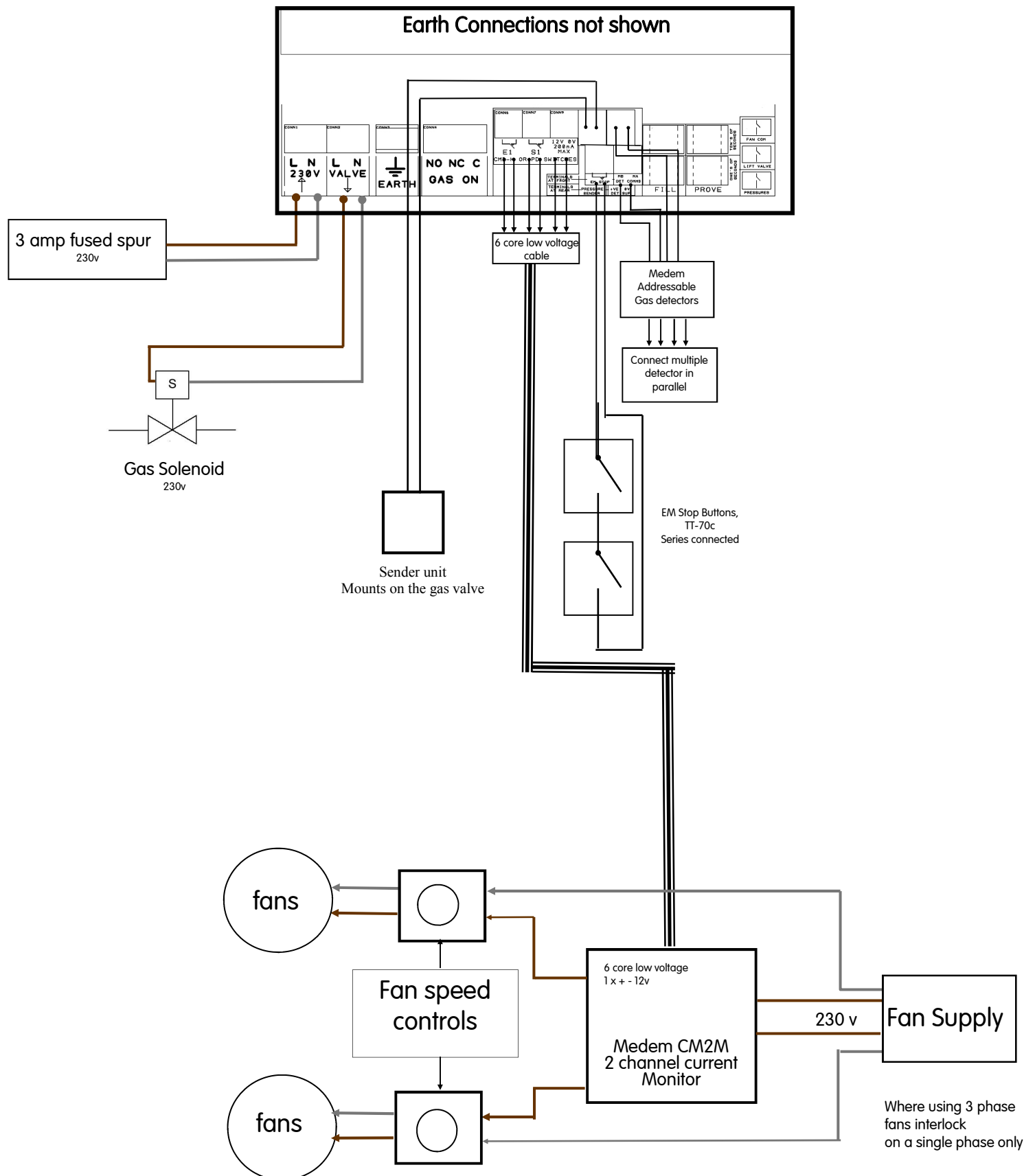
6. 12 volt: 12v Supply terminal for use with the Medem CM2M-K current monitor (Max load 200mA)
7. Sender : Two wire connection between the main panel and sender unit SELV and comm's both through "A" & "B" terminals (2 wire) **MUST BE FITTED**
8. Emergency Stop terminal (requires a N/C contact). For multiple stop buttons wire in series, a fire panel can also be connected here.
9. +VE & 0v: Power connections for CO2 detectors.
10. MB & MA: Communications connections for CO2 detectors

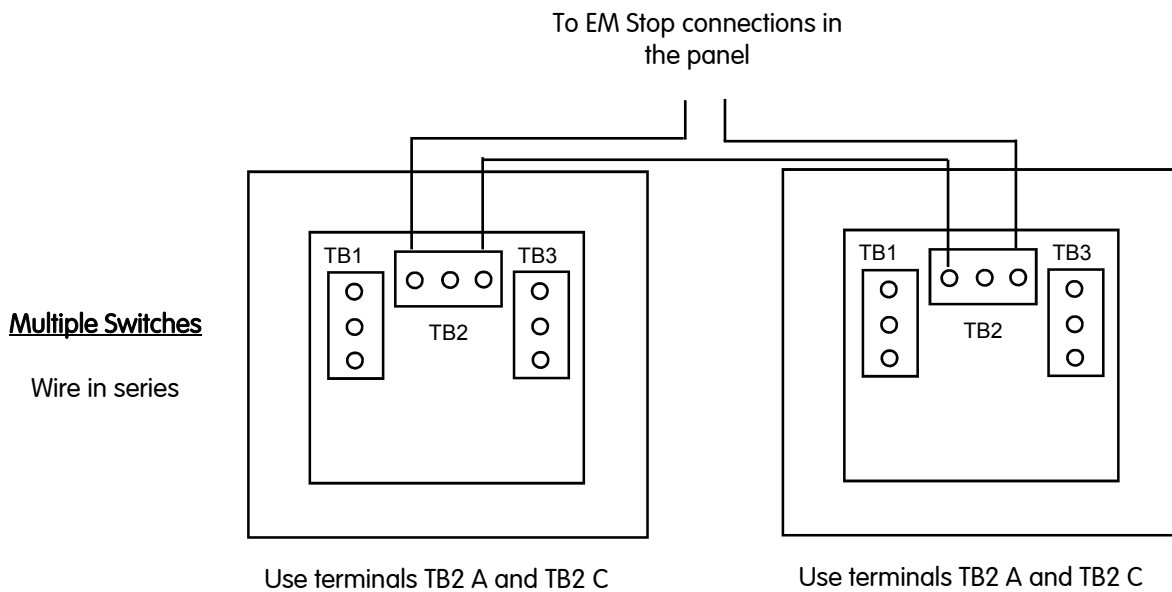
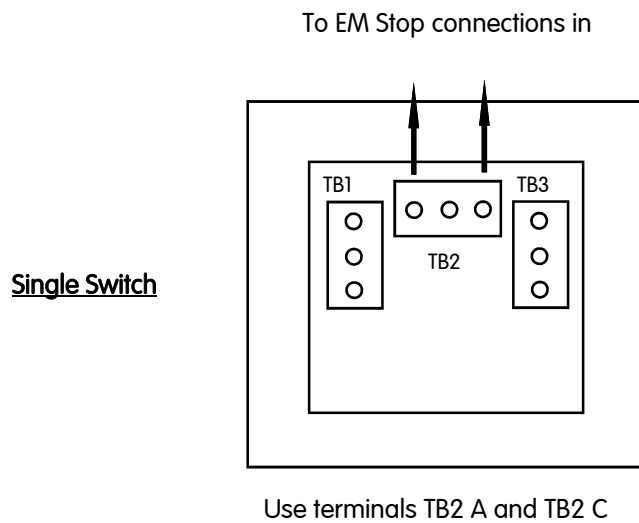


Fan Interlock Connections



VGPS-K-CO2





Remote stop buttons can be connected to the panel terminal marked as "EM STOP" (number 6). The remote buttons must be wired as above in order to provide a "closed contact" for the control panel.

Detector Location

Detector location will vary dependant on the individual characteristics of the target gas that is being monitored for. The descriptions below describe the position for each detector after considering these characteristics.

Natural Gas

Natural gas detectors should be mounted at high level on a wall approximately 150mm from the ceiling height and avoiding corners and potential dead air areas.

Natural gas detectors should not be mounted below the height of the top of a doorway for example. This is because as the gas is slightly lighter than air it will rise filling the room from the ceiling down and will spill through the top of a door opening into the next room. If the detectors are mounted below this height then it will take longer the gas to reach the detector.

LPG

LPG gas is heavier than air so detectors need to be mounted at low level 100mm from the floor, consideration should be given to any potential mopping or wet floor height.

Carbon Monoxide

Carbon Monoxide is similarly weighted to air so detectors should be mounted between 1 to 2 meters from the floor.

Carbon Dioxide

Classroom Carbon Dioxide detectors under guidance from IGEM/UP11/Edition2 should be mounted at a seated head height. However following onsite experience this mounting height can make detectors susceptible to false readings due to direct breath contact. We would suggest following the guidance for mounting as per a commercial kitchen to reduce the potential for false alarm readings.

Commercial kitchen Carbon Dioxide detectors should be installed so they monitor the general level of CO2 within the cooking area. They should be mounted above standing head height and between 1m and 3m from the cooking line. Care should be taken so they are not located close to the edge of a canopy or in direct flow of the supply or extract ventilation.

For additional information or guidance on site specific requirements please don't hesitate to contact us.

Detector Testing

Any installed gas detector can be tested by allowing a small amount of the target gas onto the detector head until a change of state is registered on the control panel.

If the level of gas applied is of the set low alarm level, the LED on the detector will change from a solid green to a flashing red. An LED* or LCD* message indicating a low level alarm detection combined with an audible alarm on the panel will begin.

If the level of gas drops below the set low alarm level the detector LED will return to a solid green and the panels audible alarm and LED* or LCD* message will clear.

Should an emergency shut-off valve be connected to the panel this will remain open during a low alarm level detection.

If the level of gas applied is of the high alarm level or above, the LED on the detector will change from a solid green to a solid red. An LED* or LCD* message indicating a high level alarm detected combined with an audible alarm on the panel will begin.

Should an emergency shut-off valve be connected to the panel this will automatically close.

Once the level of gas drops below the high alarm level the audible alarm will continue and the high alarm LED* or LCD* message will remain.

The valve cannot be reinstated until the gases have been cleared and the control panel reset.

**LED, LCD or both visual outputs will change dependant on the model of the control panel connected.*

It is essential that the installation of the VGPS-Evo is carried out in the order given below to ensure the correct operation of the system.

This guide, when completed, should be posted to Medem UK in order that the warranty period can be activated.

Site Name	Return one copy of this sheet to the address below: Modern Plant Limited, Otter House, Naas Road, Clondalkin, Dublin 22 Tel: 00353 1 461 4300 E: sales @ modernplant.ie, W: www.modernplant.ie
Installing Company	
Engineers Name	
Date Completed	

With the panel fitted to the wall the following steps should be followed.

- 1, Connect the Control valve twin & earth to the marked terminals.
- 2, Connect BMS, beacons, sounders etc to the relay outputs.
- 3, Connect the pressure sender unit to the marked terminals.
- 4, Connect any additional EM stop buttons and thermal links in series to the terminals marked "em stop".
- 5, Each detector has a rotary address switch and each switch should be set to a different number or letter starting with "1". Then connect the gas detectors to terminals marked "detectors" on the panel. Detectors can be wired "Daisy chain".
- 6, Connect the 3 amp fused spur 240 volt supply to marked terminals.
- 7, At this point check that the sender unit has been fitted to the control valve and that gas is available.
- 8, Once power is connected to the panel the detectors will flash the green LEDs for 90 seconds after which the LEDs will be on continuously.
- 9, Press the "learn field button" this is on the main circuit board on the right hand side, just over half way up the board. Pressing this once allows the panel to learn how many detectors are fitted.
- 10, Press and keep pressed the "display detectors" button whilst checking on the LCD display that all the detectors have been recognised by the panel. A recognised detector will appear as "CO2" in the display. Count the number of "seen" Detectors on screen and ensure total is the same as the number of detectors installed. **NM** means that address is not monitored.
- 11, At this point turn the on/off switch to the on position and the panel will test to ensure gas tightness and provided there are no leaks the panel will allow gas and the gas on LED will light. Should the gas test fail then press the pressure button to see the gas pressure in mbars on both sides of the valve. Thus you can see the pressure drop downstream provided the valve is closed.
- 12, Check that the panel can see the smallest allowable pressure drop if it does not then increase the proving time by adjusting the blue rotary dials on the circuit board.

Tick as each step is completed

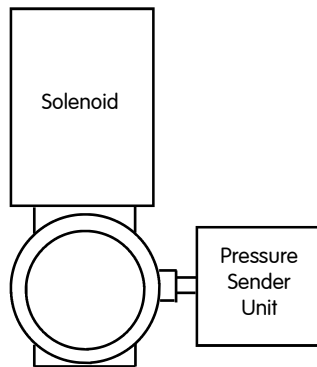
- 1: All wiring checked tight and connected as per the installation instructions.**
- 2: Each detector has an individual number or letter by adjusting the rotary address switch before the "learn" button is pressed.**
- 3: Each detector has been recognised by the panel.**
- 4: On applying a little CO2 gas to the detectors the LED turns red and the panel alarms gives the appropriate Warning before closing the gas valve.**
- 5: All detectors have a solid green LED Illuminated when not in alarm.**
- 6: The fill and prove time are set such that the smallest allowable pressure drop can be seen during the pressure test.**
- 7: On activating each emergency stop button the panel alarms and closes the control valve.**

Detector type	Carbon Dioxide	Number fitted

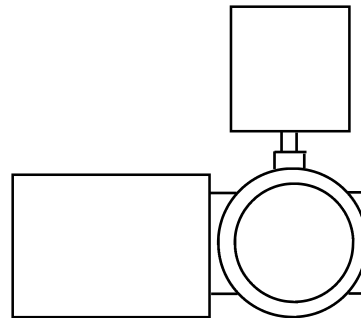
Please do not hesitate to call for advice on the following number:
00353 1 461 4300 office hours

Mounting of gas solenoid valve with Sender Unit for Medem Gas Pressure Proving System

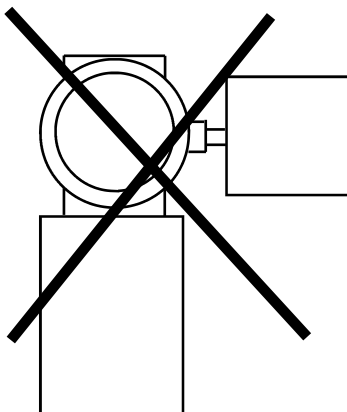
Correct



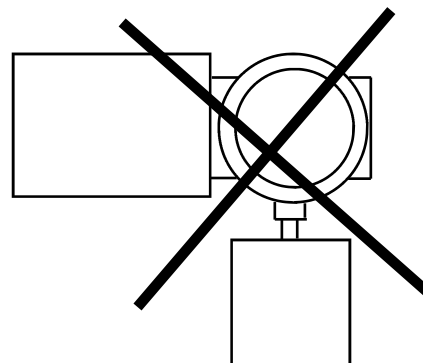
Correct



Incorrect



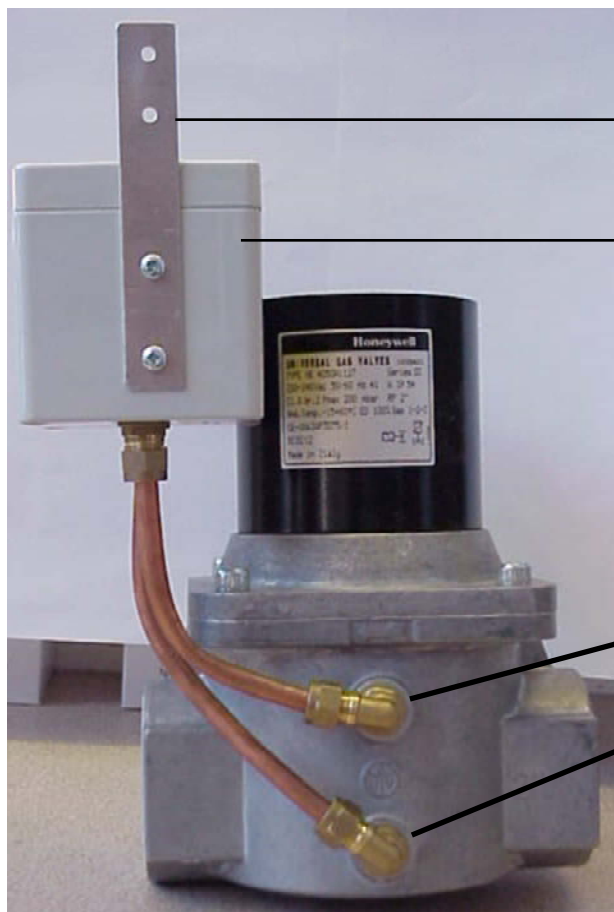
Incorrect



Never mount the valve such that the Solenoid or Sender Unit are below the horizontal.

In addition, check that the valve is correctly installed with regard to the direction of the flow of gas and that the Sender Unit is fitted the correct way round, (Sender Unit cable gland should be on the outlet side of the Solenoid Valve).

MOUNTING DETAILS FOR PRESSURE SENDER UNIT ON VALVE



WALL MOUNTING STRAP

PRESSURE SENDER UNIT

INLET PORT & OUTLET PORT
Note: These ports could be side by side

INLET PORT

OUTLET PORT
Note: If this port is blanked off, use port on base of valve.

NOTES:

Solenoid coil of the valve should never be mounted below the horizontal.

Pressure sender unit should never be mounted upside down (to protect from water ingress)

CONTENTS OF FITTING KIT FOR SOLENOID VALVE



Approx 400mm length



As Ireland's official distributor for Grohe, Modern Plant stock-holds and displays a large range of Grohe Commercial and Domestic products including showers, taps, frames and accessories.

GROHE



Modern Plant Ltd are an official stocking distribution centre for Emerson Rosemount industrial flow, level, pressure, analytical and temperature instrumentation products.

EMERSON
Process Management



Modern Plant Ltd offer a wide range of Stiebel Eltron products, from instantaneous hot water heating, stored water and electric space heating solutions.

STIEBEL ELTRON
Comfort through technology



We are one of Ireland's leading suppliers of Stuart Turner pumps to suit a variety of water boosting and water transfer applications across multiple market sectors.

STUART TURNER
ENGINEERED TO EXCEL



Modern Plant Ltd are official stocking distributors for the full range of SMC products and have a wide range of parts available from our trade counter.

SMC



Modern Plant Ltd is the sole Irish distributor for the complete Medem gas safety product range. Both companies work closely to ensure the products remain best in class.

medem



We stock a comprehensive range of Haws AG emergency equipment. We also supply special models to the highest level of quality as well as attractive, stylish drinking fountains and water coolers.

Haws
Switzerland



We are the official Irish distributor for all Metso Automation valve and control products, including NELES branded flanged ball valves, rotary plug valves, segment valves, high performance off-set butterfly valves, valve actuators and much more.

metso



We stock a large range of Bobrick washroom accessories made from type 304 stainless steel... the material of choice and quality for public washrooms.

BOBRICK



We stock Bonfiglioli power transmission and control products, providing automation solutions for all areas of industry including the packaging, beverage, textile, food, ceramic, wood, mining and metal processing industries.

Bonfiglioli
power, control and green solutions



We stock tapware and shower solutions for commercial changing facilities, toilets and accessibility to people with reduced mobility in collective facilities. High tech solutions for healthcare, elderly care and laboratories.

PRESTO



AMG specialise in quarter turn rack and pinion pneumatic actuators with many available from stock held locally in Modern Plant.

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