



## 100 series

Installation instructions

Technical Support 07952269791

Thank you for choosing Intelligas to supply your mains interlock system

Please read these installation instructions carefully, if you are in any doubt or not familiar with such systems please do not hesitate to contact Intelligas on the technical support number above.

This system is also available as the EGIP-1, a combined electronic ventilation interlock and proving system, and the EGI-1 an electronic interlock system.

Please contact Intelligas if any of these is of interest to you.

Intelligas also produces bespoke systems tailored to suit individual installation requirements, our technical support line can help with enquires of this nature and provide a free design service on placement of initial order.

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## **Siting the panel.**

Firstly choose a suitable mounting position for the control unit, mount the unit away from sources of extreme heat, ensure the panel is placed in a position where mechanical damage is unlikely and where it can be easily accessed for use and maintenance.

Fix the panel using the marked enclosure holes only, take care not to damage the internal wiring or PCB of the unit when drilling.

## **Field wiring**

All wiring from the 100 series control panel carries mains voltage (230v ac nominal). The current edition of the IEE Wiring Regulations should be strictly adhered to, wiring and connections should be made by a suitably qualified electrician or competent person. Intelligas recommends the use of FP200 or similar type of wiring for the fixed wiring installation.

Please follow the first fix wiring schedule set out below,

- |                                  |                    |
|----------------------------------|--------------------|
| 1) Gas valve                     | 2 core 1.5mm + CPC |
| 2) Emergency stops               | 2 core 1.5mm       |
| 3) Pressure switches             | 2 core 1.5mm       |
| 4) Fire alarm interlock (if req) | 2 core 1.5mm + CPC |
| 5) Main supply                   | 2 core 1.5mm + CPC |

The mains supply should be 230v 1 phase, fed via a fused DP connection switch fused at 5 amp max

## **Termination**

Termination must be carried out by a competent person, the connections to the intelligas unit must be carried out correctly, damage to equipment, injury or even death may occur if the following instructions are not strictly observed.

The terminals are clearly marked on the PCB, ensure polarity on the live and neutral supply and gas valve terminals, the e/stop, air pressure switch and fire alarm interlocks are not polarity sensitive.

Ensure any fire alarm interlock relay is capable of carrying mains voltage, contact technical support for further information.

Ensure any unused interlocks are electrically linked through, e.g. if fire alarm link not used then electrically bridge the terminals.

## **Commissioning**

Double check all terminations have been made and checked for tightness, check all peripheral equipment such as emergency stops and pressure switches are connected and the covers are in place. The power may now be applied

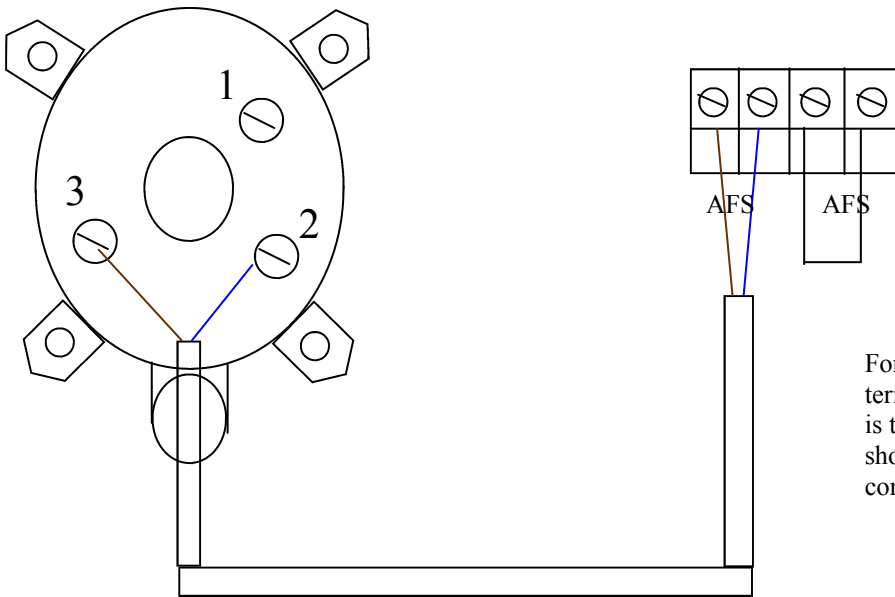
After initial power up start all fans and set any speed controllers to minimum, assuming the minimum fan speed still satisfies minimum ventilation levels in the kitchen continue and set the pressure differential switches. This can be done by slowly increasing the Pascal setting on the pressure differential switch until it clicks off, then turn it back down in 5 Pascal increments waiting 10 seconds each time until it makes again. Repeat this procedure for each pressure switch installed.

Once the pressure switches have been set up switch the intelligas from off to monitor / on, if all fans are running, emergency stops reset, fire alarm interlock inactive and all switches are correctly set up the gas available light should come on and the gas solenoid valve should open.

The unit is now commissioned and ready for use.

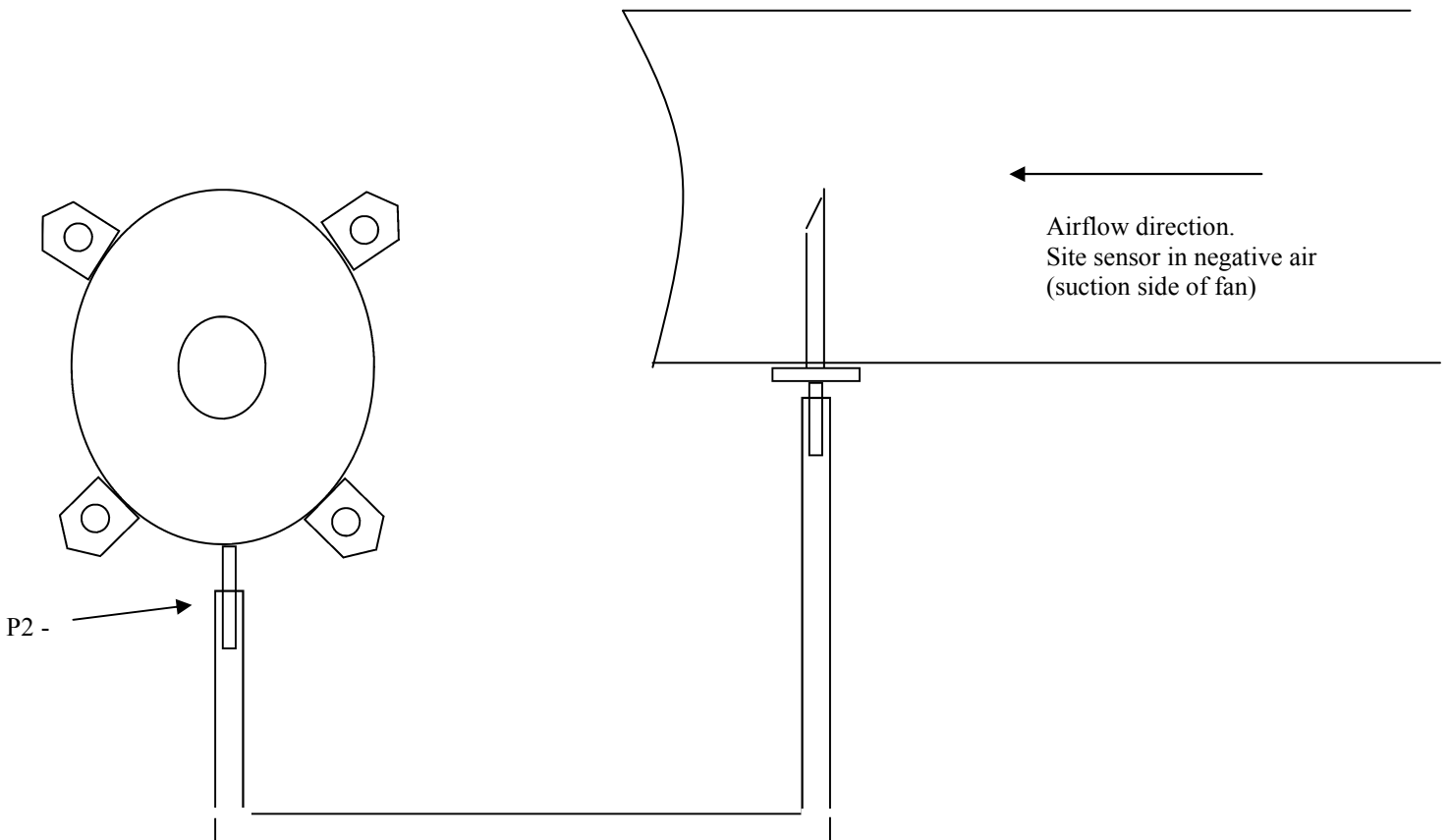
## Peripheral items installation

### Airflow switches (electrical installation)



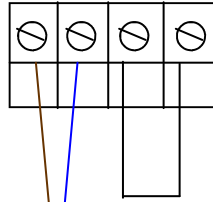
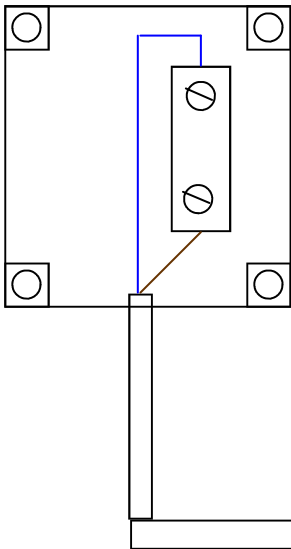
For airflow pressure switches use PCB terminals marked AFS & AFS if only 1 AFS is to be connected link the other AFS as shown or if 2 AFS's are to be fitted then connect second AFS as first AFS terminals

### Airflow switches (mechanical installation)



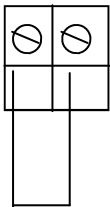
## Peripheral items installation cont...

### Emergency stops (electrical installation)



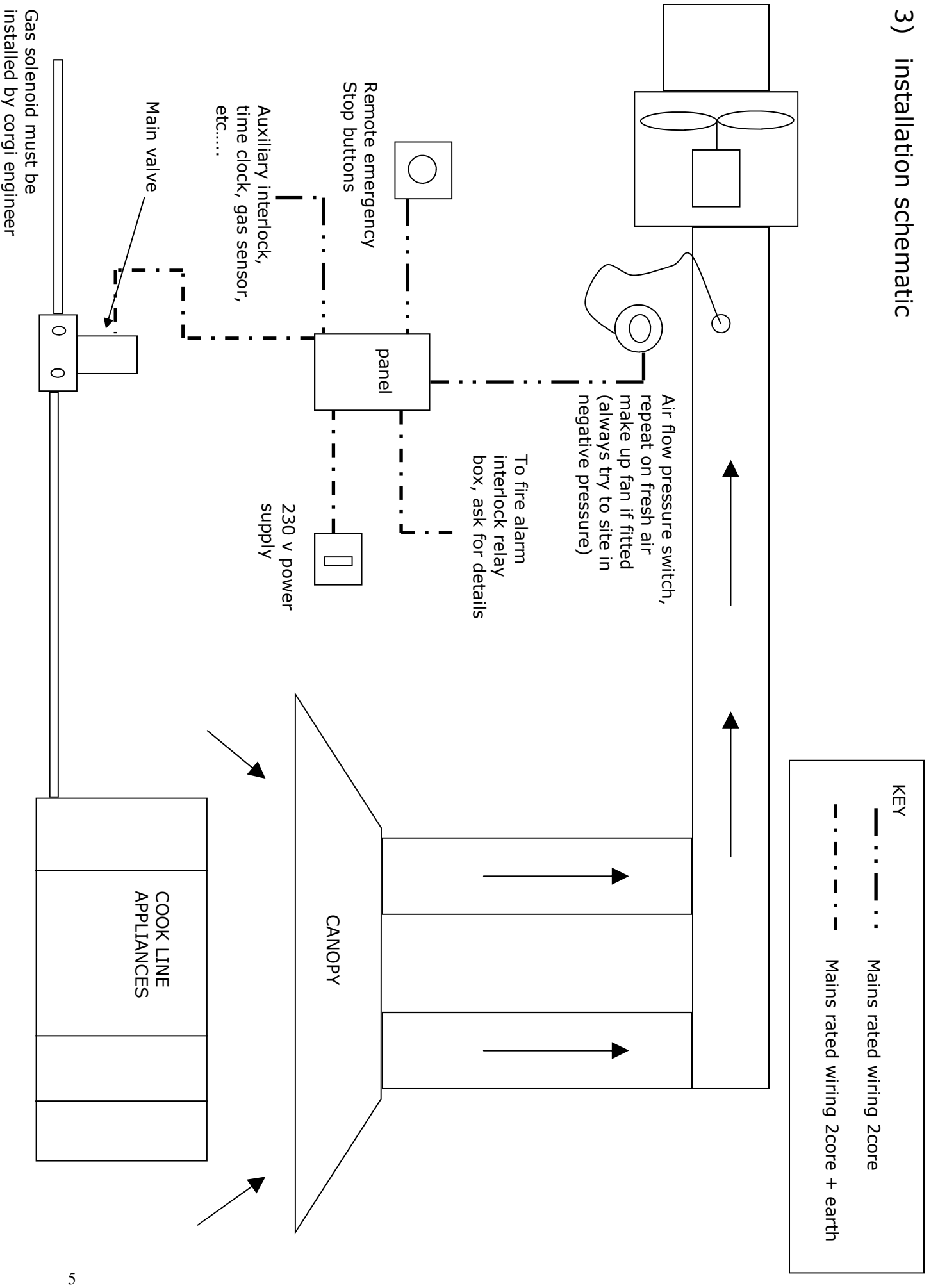
For emergency stop switches use PCB terminals marked estop & estop if only 1 E stop is to be connected link other as shown or if 2 E stops are to be fitted then connect second E stop as first

### Fire alarm interface (if used)



If fire alarm interface is not to be used then link as shown. The interlock should be wired normally closed and the fire relay must be mains rated

### 3) installation schematic



## External peripheral items connection schedule

APS use terminals 2 & 3

E stop use terminal 1 & 2

Fire alarm connections, contact technical,  
an external relay may be required for certain fire detection systems.

Produced by intelligas technical team  
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