



EGI-1

Installation instructions

Technical Support 07952269791

Thank you for choosing Intelligas to supply your electronic 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 ventilation interlock and proving system, please contact Intelligas if this 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 supply and to the gas valve 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.

Field wiring to the interlocks carries 24vdc, however, to comply with regulations in force this should be insulated within the control panel to the highest voltage present (namely 230vac).

Intelligas recommends the use of FP200 or similar type of wiring for the fixed wiring installation.

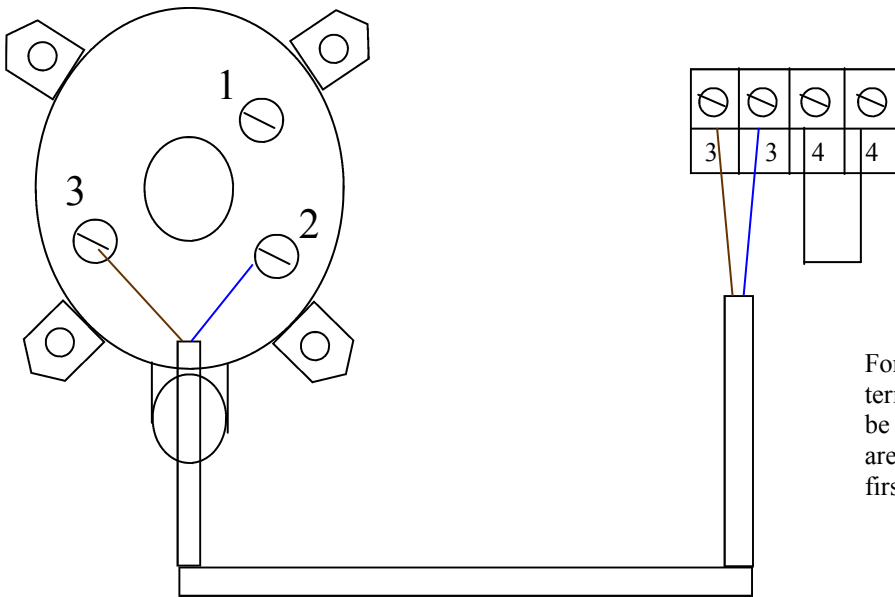
Please follow the first fix wiring schedule set out below,

- | | |
|----------------------------------|--------------------|
| 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,

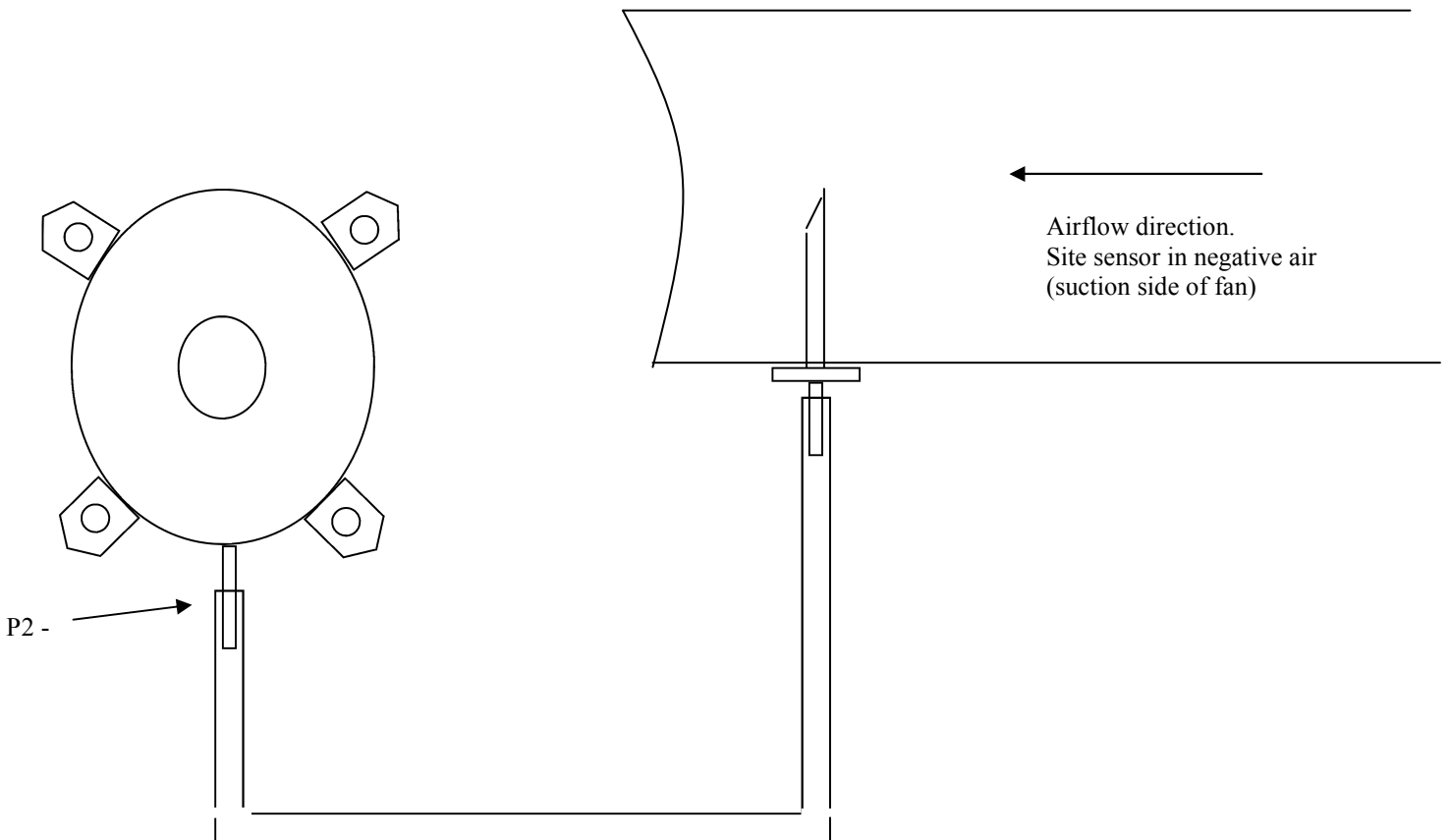
Peripheral items installation

Airflow switches (electrical installation)



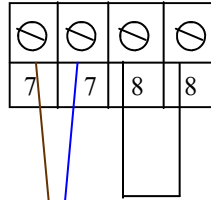
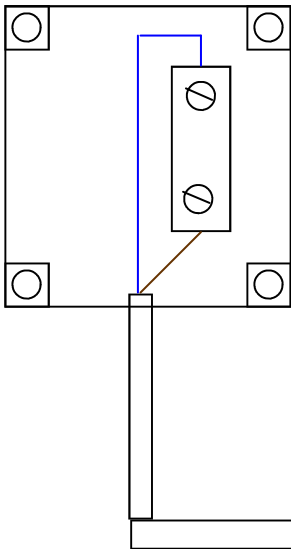
For airflow pressure switches use PCB terminals marked 3,3 & 4,4 if only 1 APS is to be connected link 4,4 as shown or if 2 APS's are to be fitted then connect second APS as first to terminals 4,4

Airflow switches (mechanical installation)



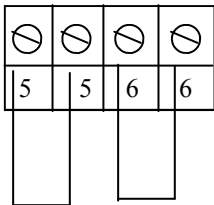
Peripheral items installation cont...

Emergency stops (electrical installation)



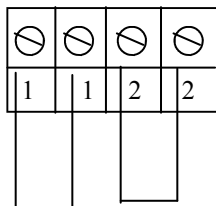
For emergency stop switches use PCB terminals marked 7,7 & 8,8 if only 1 E stop is to be connected link 8,8 as shown or if 2 E stops are to be fitted then connect second E stop as first to terminals 8,8

Fire alarm interface (if used)



If fire alarm interface is not to be used then link as shown, 2 channels of fire alarm are provided so connection to both the buildings system and possibly connection to an Ansuls system can be achieved. The interlock should be wired normally closed

Aux interlocks (if used)

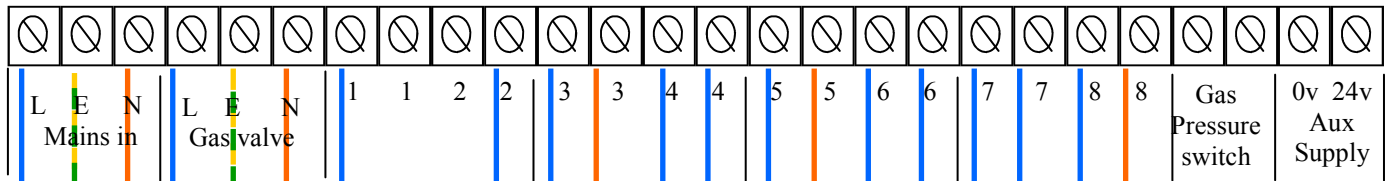
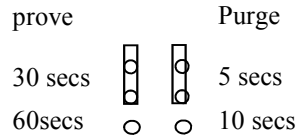
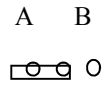


If the aux interlock is not to be used then link as shown, 2 channels of auxiliary interlock are provided so connection to other control devices such as time clocks or gas detectors can be achieved. The interlock should be wired normally closed.

EGIP-1 & EGI-1 system wiring schematic full kitchen version

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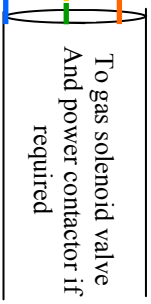
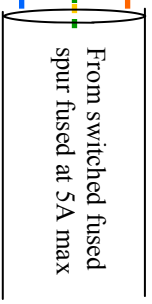
TEST ONLY



Warning
Disconnect from mains before working isolate elsewhere

Replace fuse with 3.15 amp only

Interlock Inputs



If neither channel of the interlock is to be used link both channels out as shown

To fan air pressure switch use Terminals 2 & 3 on aps Refer to aps fitting instructions

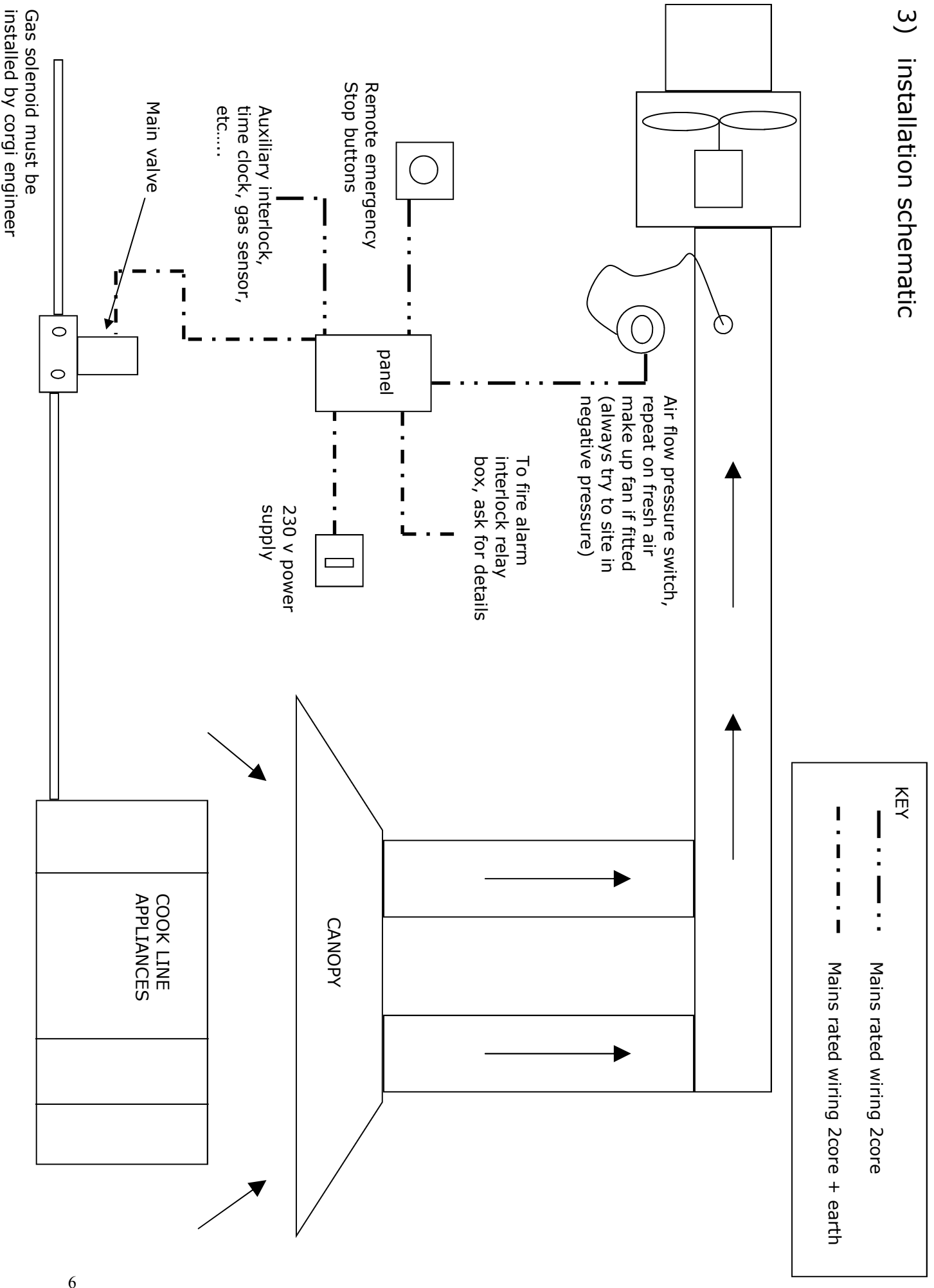
If only 1 channel of the interlock is to be used link channel 2 out as shown

To fire alarm panel, connect to fire alarm aux fire relay common and normally closed

To emergency stop button, use terminals 1 & 2 in button (normally closed)

All interlock channels are normally closed and carry 24vdc
** not used on EGI-1 installation

3) installation schematic



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 press the yellow stop / reset switch. if all fans are running, emergency stops reset, fire alarm interlock inactive and all switches are correctly set up the system will display bottom LED red and top LED off press the green start button (or turn the key switch depending on model). Both LED's should turn green and the gas solenoid valve should open.

The unit is now commissioned and ready for use.