Workshop / Home Economics Gas Safety System – Specification

The gas proving system to comply with IGEM UP/11 7.2.3 shall be manufactured and supplied by S&S Northern Ltd (Tel: 01257 470983)

The model to be supplied is the Merlin 1000V System which is 178mm (height) x 254mm (length) x 62mm (depth) and this will come with a gas pressure transducer to carry out a gas proving test on all the downstream appliances.

The Merlin CO2 Monitor shall be supplied in accordance with the IGEM/UP19. The Merlin CO2 Monitor has a screen to show the concentration of CO2 in the kitchen area. It also has a low, medium and high level LED to suggest when the ventilation should be increased. In the event where the CO2 rises above 4500ppm the gas solenoid valve should close and the panel go into “CO2 High” alarm.

The gas safety systems should be interlocked with the ventilation using 2 x Air Pressure Differential Switches.

1 x Merlin 1000V Panel (incl. Gas Pressure Transducer)

1 x Merlin CO2X Monitor

1 x Air Pressure Differential Switch

1 x Gas Solenoid Valve (Size TBC)

1 x Emergency Knock-Off Button

There should be a means of isolation by each main exit and any emergency knock-off buttons should be connected with the gas safety system.

Also connections can be made to the fire alarm and BMS to shut the gas solenoid valve in the event of a genuine alarm.

Contact Details – George Dobson – [george@snsnorthern.com](mailto:george@snsnorthern.com) – 07903 715667