

Laboratory 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 1000VW+ 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 1000VW+ is designed to give the teacher full control over the incoming gas supply, bench electrics and water supply with the lockable main key-switch and touch sensors.

The Merlin CO2 Monitor has a screen to show the concentration of CO2 in the surrounding 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.

1 x Merlin 1000VW+ Gas Proving, Water & Electric & Transducer (incl. Gas Pressure Transducer)

1 x Merlin CO2X Monitor

1 x Gas Solenoid Valve

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.

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