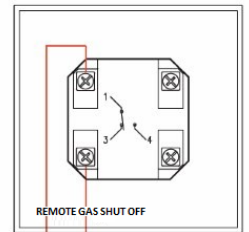


**Legend**

- 1) A 100-240VAC electrical supply should be supplied to the panel. This should be externally fused at 3 Amps using a fused spur and should be connected to the terminals marked "LNE Power".
  - 2) The gas solenoid valve should be powered using the terminals on the Merlin 1500S marked "Gas Valve".
  - 3) This terminal is disabled on this system.
  - 4) This terminal is disabled on this system.
  - 5 & 6) These terminals are used to receive an input signal from external air pressure switches or external current monitors. These are linked out as a factory setting. Wiring to the air pd switches & current monitors should be made using two-core volt free connections. Links should be left in any terminals not being used.
  - 7) Terminal connections are available on the circuit board for connections to Building Management systems. The terminal can accept up to 3amps.
  - 8) This terminal is disabled on this system.
  - 9) The terminal for remote emergency shut-off buttons is detailed on the circuit board as "EM REMOTE". These connections are linked out as a factory setting. Remote emergency shut-off buttons should be volt free and wired to the Merlin 1500S using two-core cable.
  - 10) The terminal detailed on the circuit board as "GAS DETECTOR". These connections are "+,-" and "L,J", these can be wired to a Merlin Natural Gas, Carbon Monoxide or LPG detector. If no detector is being used leave the link in between the "L,J". Other detector types are available.
  - 11) This terminal switches when the key is turned on and off. This can be linked to a fan switch (panel supplied separately) which can provide power to the fans when the control panel is switched on.
  - 12) This terminal can be wired to a CO2 monitor to shut off the system in the event of High CO2 levels. If no CO2 monitor is supplied leave the terminal link in.
  - 13) This is a permanent 12v DC output when there is power at the panel. (Usually used to power a PM2 current monitor)
- Note: All low voltage connections should be made using a screened cable. To avoid electrical interference this should not be in the same conduit as mains cable as per the low voltage directive.
- For further information please refer to American Gas Safety LLC operating and installation instructions.



- 100-240 VOLT MAINS LIVE
- NEUTRAL
- EARTH
- LOW VOLTAGE



Client	
Job Title	
Drawing Title	

**Notes**  
 All discrepancies between information shown on the drawing and information in the specification to be referred to American Gas Safety prior to proceeding.

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Amendments		
Scale	Date	Drawn
N.T.S.		BT
Dwg. No. 1500S		Rev. 1