



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 GDP2 marked "Gas Valve".
 - 3-4) The terminals detailed on the circuit board as "Gas Detector Zone 1" & "Gas Detector Zone 2". These connections are "+, -" and "CL" and can be wired to a Merlin gas detector. Natural gas, carbon monoxide or LPG. Other detectors types are available.
 - 5) The terminal for remote emergency shut-off 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 GDP2 using two-core cable.
 - 6) The terminal for heat detectors is detailed on the circuit board as "HEAT SENSOR". These connections are linked out as a factory setting. Heat detectors should be volt free and wired to the Merlin GDP2 using two-core cable.
 - 7) The terminal for connections to a fire alarm is detailed on the circuit board as "FIRE PANEL". These connections are linked out as a factory setting. Fire alarm connections should be volt free and wired to the Merlin GDP2 using two-core cable.
 - 8) The terminal detailed on the circuit board as "BMS OUT". These connections can be used to wire to a BMS or can be used as a switch connection. These should be wired using low voltage cable.
 - 9) The terminal for sounder alarms is detailed on the circuit board as "SOUNDER/STROBE". Sounder alarms should be wired using low voltage cable and wired to the Merlin GDP2 using two-core cable. This terminal has a 24VDC output.
 - 10) There is a set of two dip-switches located on the PCB of the Merlin GDP2 labelled "ZONE 1" & "ZONE 2". This is factory set in the "OFF" position. For each of the gas detector zones you are using please ensure the relevant zone has been enabled. The zones you are not using should be left disabled.
 - 11) There is a set of two dip-switches located on the PCB of the Merlin GDP2 labelled "BMS" & "AUTO". This is factory set in the "off" position.
- 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.

- LINE VOLTAGE 100-240VAC
- NEUTRAL
- GROUND
- 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 | | |
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| Scale N.T.S. | Date | Drawn BT |
| Dip. No. GDP2 | | Rev. 1 |