PRODUCT SPEC SHEET GDP4



GDP4 Gas Detection & Control System



Product Overview:

The GDP4 is a two-zone gas detection panel which can be used in many applications, e.g. Mechanical rooms, chiller rooms, shopping malls and the most common being a boiler house application.

Many varieties of detectors are compatible with GDP4, e.g. Natural Gas, Carbon Monoxide, LPG, Refrigerant Gas and Oxygen Depletion/Enrichment. Up to 12 detectors can be used in any combination.

Also multiple heat detector links can be used, when wired in series. The GDP4 can be integrated with a BMS, fire alarm and remote EPO buttons. Gas detectors are fixed remote from the GDP4 panel & should be wired back to the GDP4 panel with three wire low voltage cable.

Technical Specifications

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Model: MerlinGDP4

Use: Indoor, Safe Areas (not to be used in explosive atmospheres)

Indicators LED

Mounting Wall Mounting

Max. Power Consumption 20W Max (Full Load)

Power Voltage Input Range 230VAC
Gas Valve Output Range 230VAC

I/Os 2x 24VDC Outputs & 3x Open/Close Switches

BMS Terminal Volt Free Dry Contact (Normally Closed / Common / Normally Open) 3A Max

Relay(s) 2x 230VDC 10A (Latching) Configurable Normally Open or Normally Closed (Switch)

Terminal Wire Ratings Copper 18AWG (0.75mm2) Min. 24 x Screw Terminals

Fuse 3.15A

Dimensions (H x W x D) 180 x 255 x 77 mm/ 7.08 x 10.03 x 3"

Unit Weight (Approx.)

1.1kg / 38.8oZ

Housing Material

Polylac - PA765

Ingress Protection IP65 (Pre-Installation)

Storage Conditions Dry. Cool. Flat

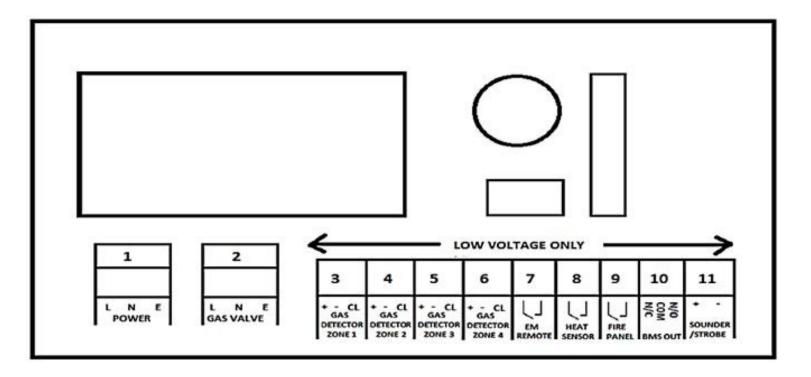
Operating Conditions -10 ~ 50°C / 14 ~ 122°F 30 ~ 80% rh

Compliance EN 61326-1 / BS EN IEC 61010-1

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GDP4 PCB Overview



POWER / LINE IN

100-240vac mains power supplied to the [POWER/LINE IN] connector using a 3-core cable and fused at 3A. On connecting the mains supply to the panel the power LED indicator will light up – this is located on the front cover.

VALVE OUT

100-240vac electrical power output from the [VALVE OUT] connector using a 3 core cable can be connected to a gas solenoid valve which can shut the gas supply on alarm status. Refer to your valve manual for more information.

GAS DETECTOR (ZONES 1-4)

24vdc power supply to gas detectors are wired to [GAS DETECTOR ZONE] terminals. For more information, see section: Wiring your detector.

EM STOP

Open/close connections for external shut-off buttons. If using multiple shut off buttons, wire in parallel.

HEAT SENSOR

Open/close connections for heat sensors/thermal links.

BMS OUTPUT

Volt free connections are available on the board for Building Management Systems.

This is a relay that changes state in alarm or when the gas line is on/off and can be used in conjunction with the 24vdc output and other external relays that affect other devices and controls such as purge fans and audible alarms etc.

FIRE PANEL Open/close connections for fire alarms/panels.

SOUNDER-STROBE 24vdc connections for an external sounder alarm / strobe lighting to activate on alarm.