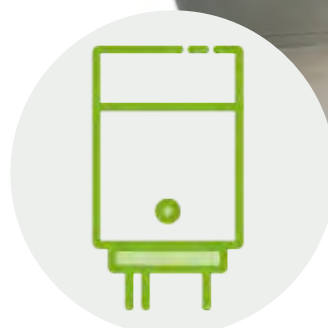


AGSGDP4

Datasheet

Gas Detection System



Product Overview

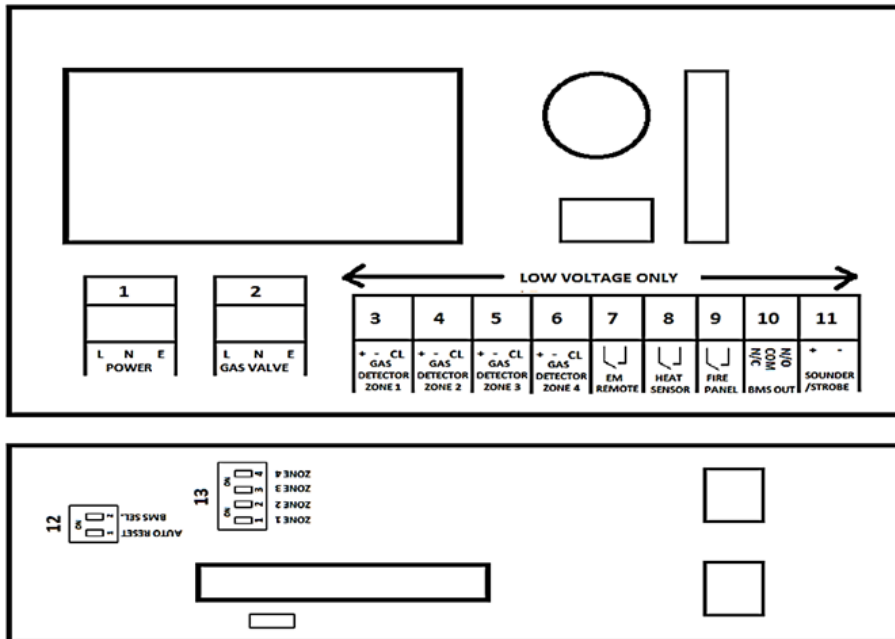
The Merlin GDP4 is a four-zone gas detection panel which can be used in many applications, examples of these are Mechanical Rooms, Car parks, shopping malls and the most common being a boiler house application.

Many varieties of detectors are compatible with GDP4, e.g. Natural Gas, Carbon Monoxide, LPG and Oxygen depletion. 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 emergency buttons. Gas detectors are remote hardwired from the GDP4 panel.

Specifications

General	
Product:	GDP4 Gas Detector Controller
Use:	Indoor, Safe Areas (not to be used in potentially explosive atmospheres)
Indicators	LED
Mounting	Wall Mounting
Electrical	
Max. Power Consumption	20W Max (Full Load)
Power Voltage Input Range	100-120vac
Gas Valve Output Range	100-120vac
I/Os	24vdc Outputs (Detector / Strobe or Sounder) 3x Open/Close Switches (EM Stop / Heat Sensor / Fire Panel)
BMS	Volt Free (Normally Closed / Common / Normally Open) 3A Max
Relay(s)	2x 120vac 10A (Latching Switch)
Terminal Wire ratings	Copper 18AWG (0.75mm ²) Min. x29 screw terminals.
Fuse	3.15A
Construction	
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
Environmental	
Ingress Protection	IP65 (Pre-installation)
Storage Conditions	Dry. Cool. Flat
Operating Conditions	-10 ~ 50°C / 14 ~ 122°F 30 ~ 80% rf
Compliance	
CE	EN 61326-1 / BS EN IEC 61010-1

Board Overview



- (1) **POWER/LINE IN** 100-120vac mains power is supplied to the [POWER/LINE IN] connector using a 3-core cable fused at 3A. On connecting the mains supply, power LED indicator will light up – this is located on the front.
- (2) **GAS VALVE** 100-120vac electrical power output from the [VALVE OUT] terminal using a 3-core cable to a gas solenoid valve, which can shut the gas supply on alarm status.
- (3 & 4) **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.
- (5) **EM REMOTE** An open/close switch for remote emergency shut-off buttons detailed as [EM STOP].
- (6) **HEAT SENSOR** An open/close switch for heat sensors/ thermal links detailed as [HEAT SENSOR].
- (7) **FIRE PANEL** An open/close switch for fire alarms detailed on the circuit board as [FIRE PANEL].
- (8) **BMS OUTPUT** Connections are available on the board for Building Management Systems. These are volt free connections. This is a relay that changes state in alarm or when the gas is on/off and 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.
- (9) **SOUNDER-STROBE** 24vdc output for an external sounder alarm/ strobe lighting to activate on alarm.

Find out more

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