AGSGDP2 Datasheet

Gas Detection System

Product Overview

The Merlin GDP2 is a two-zone gas detection panel which can be used in many applications, e.g. Mechanical rooms, shopping malls and the most common being a boiler house application.
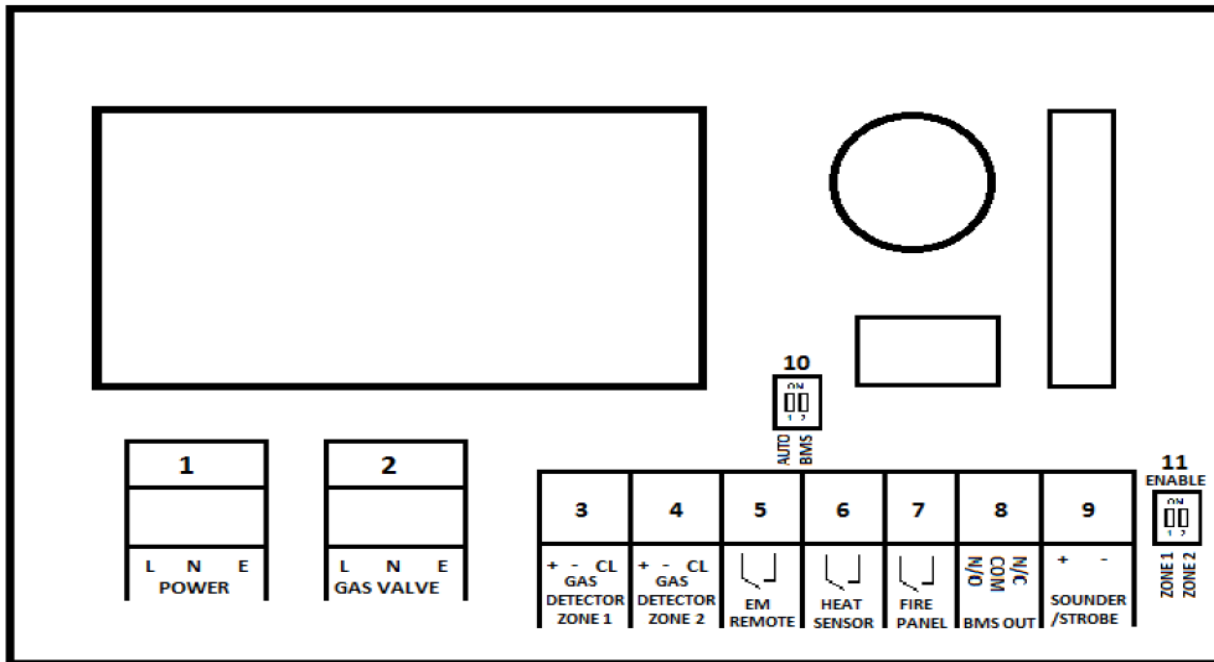
Many varieties of detectors are compatible with GDP2, e.g. Natural Gas, Carbon Monoxide, LPG, Refrigerant Gas and Oxygen Depletion/Enrichment. Up to 6 detectors can be used in any combination.

Also multiple heat detector links can be used, when wired in series. The GDP2 can be integrated with a BMS, fire alarm and remote EPO buttons. Gas detectors are fixed remote from the GDP2 panel & should be wired back to the GDP2 panel with three wire low voltage cable.

Specifications

General	
Product:	GDP2 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 (0.75mm2) Min. x29 screw terminals.
Fuse	3.15A

Construction	
Dimensions (H x W x D)	140 x 190 x 62mm (5.51 x 7.48 x 2.44")
Unit Weight (Approx.)	0.7kg / 24.7oz
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 – 2) 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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