![AGS American Gas Safety logo]

AGSGDPX+

Advanced Gas Detection System Incorporating AGS Original Gas Pressure Proving Technology

Product Overview

The Merlin GDPX+ is a 16 zone gas pressure proving & detection panel which can be used in many applications, e.g. mechanical rooms, car parks, shopping malls and the most common being a boiler house application.

Utilizing a solenoid valve and a pressure transducer the Merlin GDPX+ will check for a pressure drop or leak in the downstream line before allowing the gas to be supplied. Once gas has been supplied the unit will constantly check the incoming gas supply pressure to ensure that a naked flame cannot be extinguished by a weak draft.
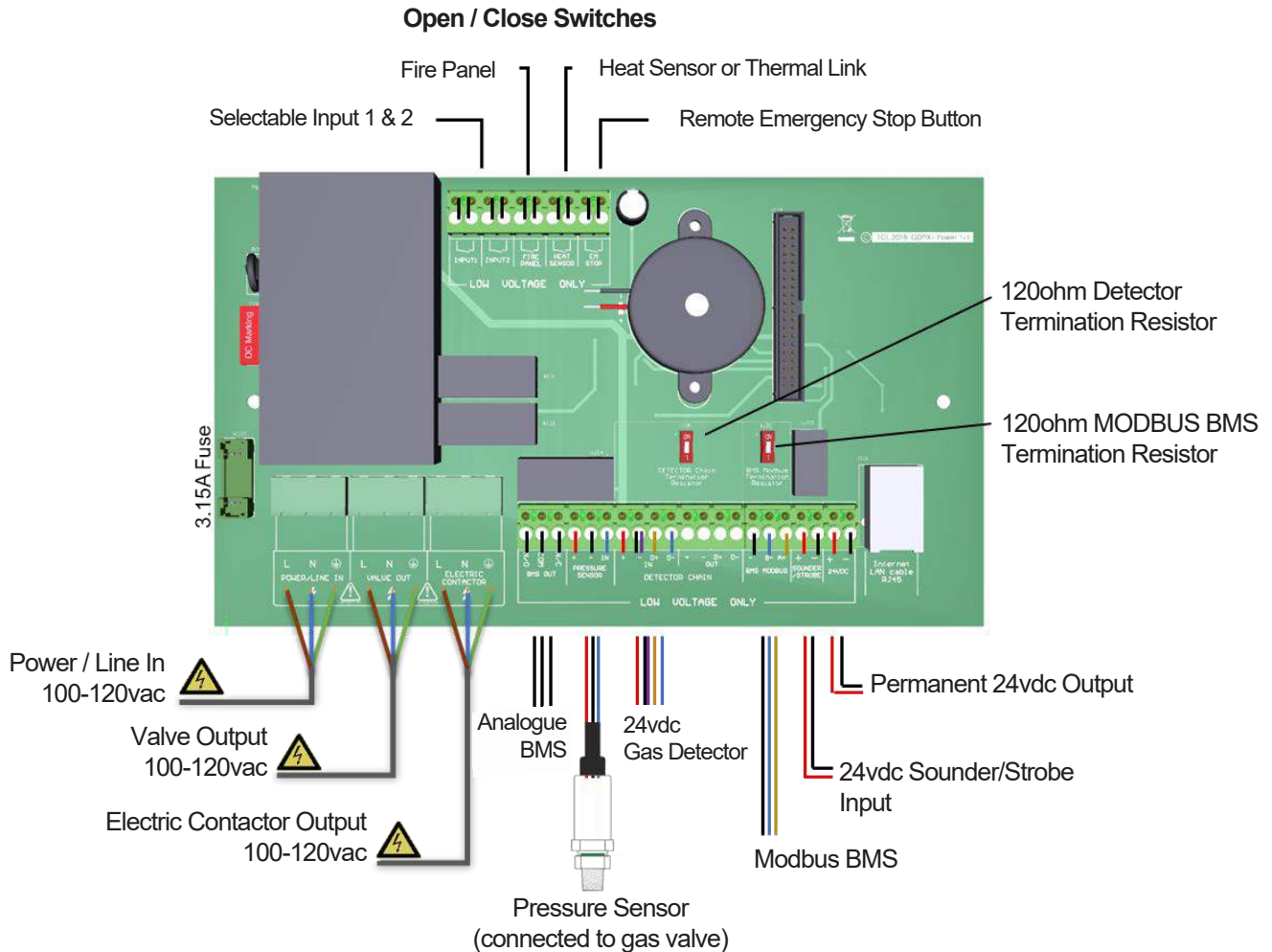
The GDPX+ has a touch screen which displays two modes, the engineers mode and the user mode. A settings dipswitch inside the controller allows the engineer/ user to configure the system. When changes have been, the system will automatically restart once the settings switch is off.

Many varieties of detectors are compatible with GDPX+, e.g. Natural Gas, Carbon Monoxide, LPG, Refrigerant Gas and Oxygen depletion. Up to 16 detectors can be used in any combination and can be individually monitored on the GDPX+ TFT display.

General	
Product:	GDPX+: Gas Detection Control Panel
Use:	Indoor, Safe Areas (not to be used in potentially explosive atmospheres)
Indicators (4.3" Touch Screen)	Main Zone Status. ID. Gas Type. Concentration Level. Measured Value. End of Life. Fault. Service.
Screen Brightness	Adjustable 0-100%
Mounting	Wall Mounting
Electrical	
Max. Power Consumption	48W Max (Full Load)
Power Voltage Input Range	100-120vac
Gas Valve Output Range	100-120vac
Electrical Contactor Output Range	100-120vac
I/Os	3x 24vdc Outputs (Detector / Strobe or Sounder / Permenant)
	5x Open/Close Switches (EM Stop / Heat Sensor / Fire Panel / 2x Selectable)
BMS Terminal	Volt Free (Normally Closed / Common / Normally Open) 3A Max
Communication	RS485 MODBUS RTU
Relay(s)	2x 120vac 10A (Latching Switch)
Terminal Wire ratings	Copper 18AWG (0.75mm2) Min. 25 x screw terminals.
Fuse	3.15A
Internet (Unavailable)	Ethernet (RJ45)
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 / UKCA	EN 61326-1 / BS EN IEC 61010-1

Board Overview

Open / Close Switches

Fire Panel

Heat Sensor or Thermal Link

Selectable Input 1 & 2

Remote Emergency Stop Button

3.15A Fuse

120ohm Detector Termination Resistor

120ohm MODBUS BMS Termination Resistor

Power / Line In 100-120vac

Valve Output 100-120vac

Electric Contactor Output 100-120vac

Analogue BMS

24vdc Gas Detector

Permanent 24vdc Output

24vdc Sounder/Strobe Input

Modbus BMS

Pressure Sensor (connected to gas valve)

AGS Pressure Proving

The AGS Merlin pressure transducer which comes with the controller is used with the AGS range of gas proving systems. This pressure transducer checks the gas pipework for leaks every time the gas is turned on.

In the event of a gas leak of a open appliance during the test sequence, the transducer will send a signal to the Merlin controller to isolate the gas solenoid valve.

Automatically shutdown gas if a leak is detected

Low & high continuous gas pressure monitoring

Find out more

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