



Product Overview:

The CGS 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.

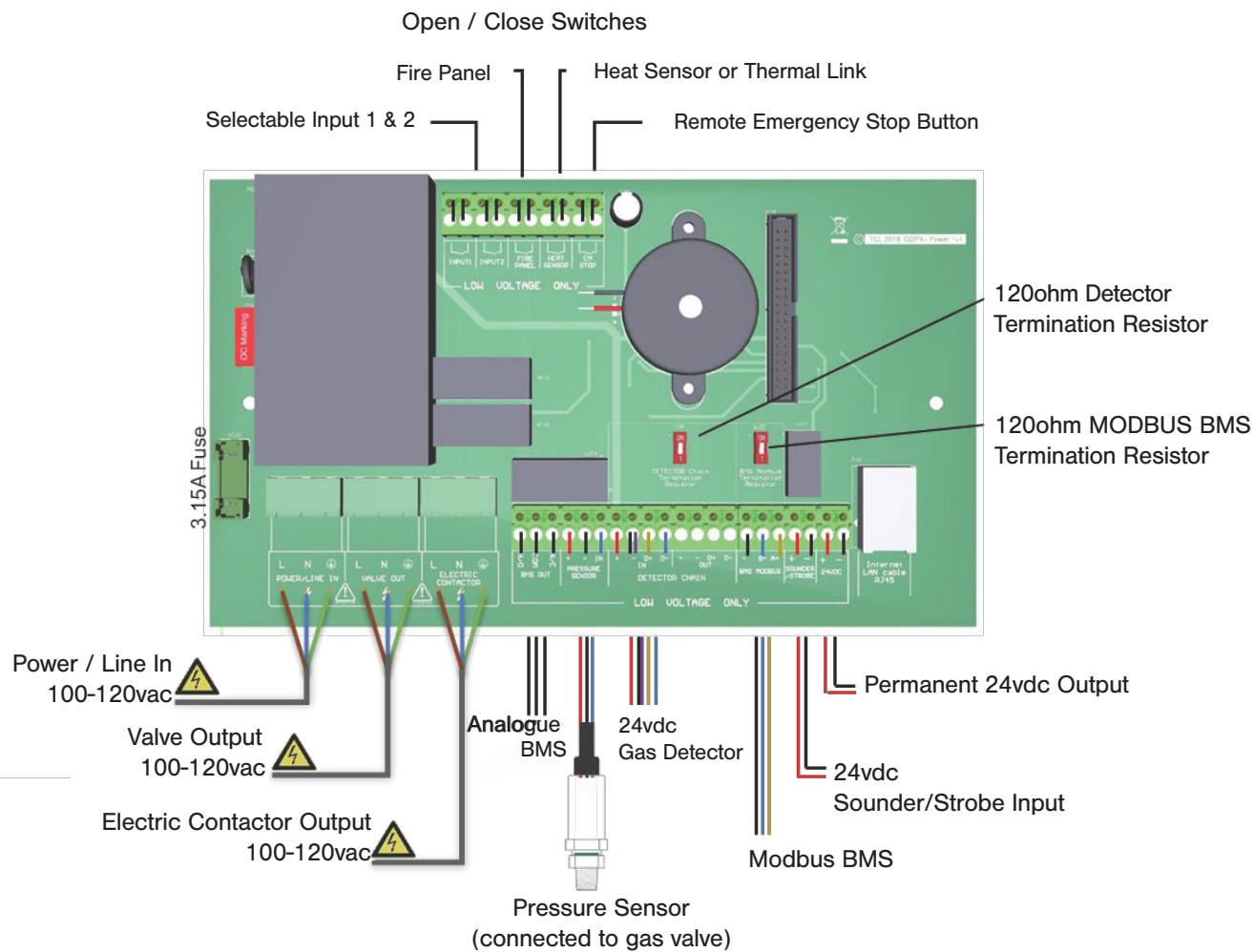
Many varieties of detectors are compatible with GDPX+, e.g. Natural Gas, Carbon Monoxide, LPG, Refrigerant Gas and Oxygen depletion. Up to 16 detectors can be used in any combination and can be individually monitored on the GDPX+ TFT display.

Technical Specifications

General

Model:	CGS MerlinGDPX+
Use:	Indoor, Safe Areas (not to be used in explosive atmospheres)
Indicators (2.8" 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
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 & 5x Open/Close Switches
BMS Terminal	Volt Free Dry Contact (Normally Closed / Common / Normally Open) 3A Max
Relay(s)	2x 120VDC 10A (Latching) Configurable Normally Open or Normally Closed (Switch)
Communication	MODBUS RTU RS485
Terminal Wire Ratings	Copper 18AWG (0.75mm ²) Min. 24 x Screw Terminals
Fuse	3.15A
Dimensions (H x W x D)	180 x 255 x 77mm / 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

PCB Overview



CGS Controls Pressure Proving

The CGS Controls pressure transducer which comes with the controller is used with the CGS Controls 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 or 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