

FINE CONTROLS (UK) LTD



Fine Controls have been supplying process controls & instrumentation equipment since 1994, & now serves an ever expanding customer base, both in the UK & globally.

We offer a full range of valve & instrumentation products & services, with our product range representing leading technologies & brands:

Flow: Flow Meters & Transmitters, Flow Switches, Flow Control Valves & Batch Control Systems

Temperature: Temperature Probes & Thermowells, Temperature transmitters, Temperature Regulators & Temperature Displays

Level: Level Transmitters & Switches

Pressure: Pressure Gauges & Transmitters, Precision & High Pressure Regulators & I-P Converters, Volume boosters.

Precision Pneumatics: Pressure Regulators, I-P Converters, Volume Boosters, Vacuum Regulators

Valves: Solenoid & Pneumatic Valves, Control Valves & Positioners, Actuated Ball, Globe or Diaphragm Valves & Isolation Valves

Services: Repair, Calibration, Panel Build, System Design & Commissioning

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LK-GSP4 GAS DETECTION SYSTEM

The Landon Kingsway Gas Detection System GSP4 can be used in many applications such as factories, car parks, shopping centres and most commonly boilerhouses. The GSP4 can be used with up to four gas detectors, wiring back to the control panel using four wire low voltage cable.

A variety of remote detectors are compatible with the GSP4 Natural Gas, Carbon Monoxide or LPG being the most commonly used. These detectors can be used in any combination. Fusible links can also be used, when wired in series multiple fusible links can be used on the same terminal.

Basic Operation

When the remote sensor or sensors detect the presence of the target gas, a signal will be sent back to the panel, the panel then sends a signal to close the gas solenoid valve shutting off the gas supply. The panel will then indicate which zone is in alarm. Once the problem has been rectified the reset button is pressed and the panel should indicate zone on. If there is still gas present in the area (zone) the panel will go into alarm once again.



The Natural Gas Detector and LPG detector will go into alarm at 10% of the low explosion level (LEL). The Carbon Monoxide will go into alarm when the level has reached 50ppm for over 4 minutes.

The fusible links are rated at 72°C, which is when the temperature in the zone goes above the rated temperature the system will go into alarm shutting off the gas supply. When the system goes into alarm the LED indication on the panel lights up and an audible alarm sounds. There are also relay outputs for a BMS system and additional auxiliary equipment such as a flashing beacon.

LK-GSP4 GAS DETECTION SYSTEM

Detectors

The Natural gas detectors should be located approximately 30cm from the ceiling and wired back to the GSP4 panel using 4-core wire. If there is a wiring error then the fault LED will illuminate on the panel only when the fault is rectified will the LED go out. LPG detectors are connected as above but should be located approximately 10 cm from floor level

The Carbon Monoxide Detector is normally situated approximately 1 meter from ground level. The sensor is wired to the GSP4 panel using 4-core wire. If there is a wiring error then the fault LED will illuminate on the panel and only when the fault is rectified will the LED go out.

The fusible links are normally located above a boiler or similar appliance and wired back to the panel using 2 core low voltage wire.

Advantages

- Easy Installation, designed for simple installation with the use of low voltage wiring and clearly marked PCB connections.
- Protects people and property
- User friendly, digital LED design means clear system status indication at all times.
- Emergency shut off button fitted as standard, additional EM stops can be added all low voltage. Instant gas shutdown.

LK-GSP4 WIRING DIAGRAM

