

Merlin LPG Detector TFT



Description

The TFT range of CGS detectors work in combination with the CGS Merlin range of Gas Detection panels and Utility Controllers. Semi conductor type sensor for industrial and commercial indoor applications. Compact, modern, digital design makes the units aesthetically pleasing and easy to install.

Application

Monitors boiler rooms, mechanical rooms, kitchens, hospitality and other commercial spaces involving Liquid Petroleum Gas (LPG). The TFT range of detectors signal CGS Merlin controllers that an alarm condition has occurred. The detectors are suitable for all indoor applications and can be mounted onto single gang rough in box or directly onto a junction box.

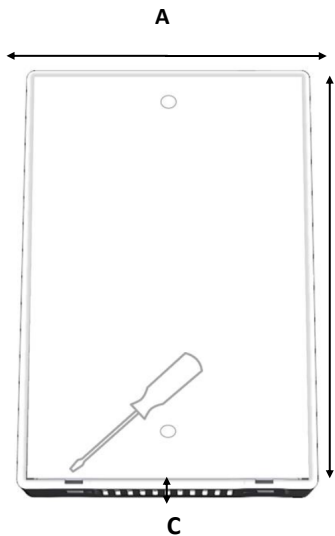
Technical Specifications

Power Supply	12-24V / 7-30VDC
Gas Sensor	Semi-conductor type sensor
Visual Indicators	Green, Yellow & Red Visual Reading Indication Gas Level / Measuring Value / Detector ID No / Detector Series No End of Life / Sensor Fault / Service
Initial Stabilisation Time	60 Seconds approx.
Relay Output	0.5A Switching Current (resistive load).
Measuring Range	300-10000 ppm
Positioning of gas detector	1ft from ground level
Operating Temperature	32-122°F 30-85%RH Non-Condensing
Low Level Alarm (Pre Alarm)	8% LEL
High Level Alarm	10% LEL
Accuracy @ 77°F	± 5%
Test Conditions	77° ± 41°F
Installation	Wall Mountable Single Gang Rough In Box
Warranty	3 Year CGS warranty



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Dimensions



- A. 3.74in
- B. 5.51in
- C. 1.18in

Gas Level Indicators



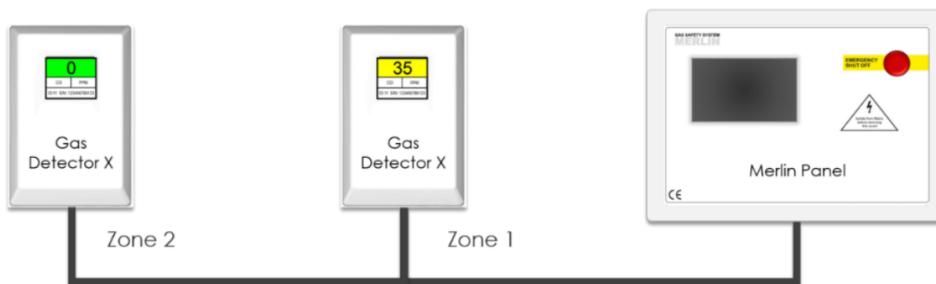
SAFE
Safe gas levels will be displayed **GREEN**.

ATTENTION!
Low gas levels will be displayed **YELLOW**.

DANGER!
Dangerous gas levels will be displayed **RED**.

⚠️
At dangerous gas levels, the alarm will continuously sound if the buzzer dip-switch is ON.
There are no provisions to silence this alarm.
Only when gas levels are at a safe level will the audible alarm stop.

Typical Installation Arrangement



Many detection systems are designed around a centralised control unit of which the location also needs to be considered. They should be located outside of the hazardous area that they are monitoring.

- > 18/4 AWG cable – Power 12v max – Signal Dry Contact
- > Coverage – 10m² (110ft²)
- > Avoid drafts – Mount above head height 12 inches from ceiling – Avoid high temperatures
- > Wire multiple Detectors as per manufacturer's wiring instructions.
- > Max # of detectors in a chain per zone GDP2X or GDPX+ controller is 16



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