

# Troubleshooting Guide

Merlin Gas Detectors



26/01/2016

## Table of contents

<b>1</b>	<b>General information .....</b>	<b>3</b>
<b>2</b>	<b>Fault LED .....</b>	<b>3</b>
2.1	Power Fault .....	3
2.2	Low Fault.....	3
2.3	High Fault.....	3
2.4	Additional Information .....	3
	<b>Wiring Diagram .....</b>	<b>4</b>

## 1 General information

S&S Northern supply a full range of remote gas detectors to compliment the Merlin range of panels. These consist of carbon monoxide, natural gas, lpg and oxygen detectors.

Our range of gas detectors are designed to work with a Merlin control panel.

## 2 Fault LED

### 2.1 Power Fault

- 1 If the system is connected to the power supply, the green Power LED will illuminate. When no power is present, this LED will not light up.
- 2 If the above hasn't rectified the fault please contact S&S Northern for further assistance.

### 2.2 Low Fault

- 1 When the gas detector has reached the low level alarm state this will illuminate Amber. Please see below for further information.

<b>Low level alarm (pre-alarm)</b>	<b>Methane 8%LEL by volume</b>
	<b>LPG 0.16% by volume</b>
	<b>Carbon monoxide 30ppm</b>

### 2.3 High Fault

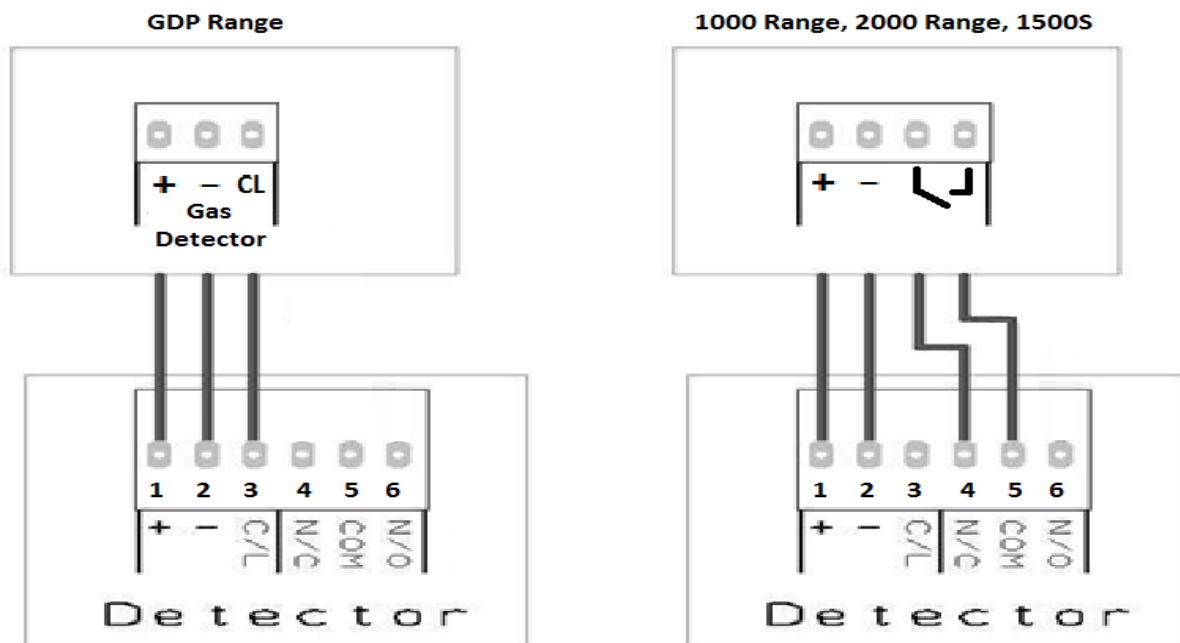
- 1 When the gas detector has reached the high alarm state this will illuminate red. Please see below for further information.

<b>High level alarm</b>	<b>Methane 10%LEL by volume</b>
	<b>LPG 0.2% by volume</b>
	<b>Carbon monoxide</b> <b>30 ppm for 2 hours</b> <b>50 ppm for 1 hour</b> <b>100 ppm for 10 minutes</b> <b>300 ppm for 1 minute</b>

### 2.4 Additional Information

- 1 If you have power to the gas detector from the Merlin system and the power LED light is illuminated, this could mean the wiring is incorrect. For wiring details please refer to page 4 of this document.

## Wiring Diagram



1. Power supply, positive connection from Merlin panel.
2. Power supply, negative connection from Merlin panel.
3. Alarm relay, alarm signal to GDP panel.
4. Alarm relay, volt free connection. Normally closed.
5. Alarm relay, volt free connection. Common.
6. Alarm relay, volt free connection. Normally open.

Please note, Mains wires and low voltage wires should not be run in the same conduit as per the **LOW VOLTAGE DIRECTIVE**

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