

Troubleshooting Guide

Merlin CT500S Gas Isolation System



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1 General information

The Merlin CT500S is a gas isolation panel.

The CT500S is designed to provide an effective way of isolating gas by means of a key switch on the panel or by the operation of the emergency shut off button. The CT500S can receive connections from remote emergency shut-off buttons and also features a permanent 12VDC output.

2 Fault LED

2.1 Power Fault

- 1 If the system is connected to the mains supply, the Power LED will illuminate. When no power is present, this LED will not light up.
- 2 If the system is connected to the mains supply and the power LED is not illuminated please check to see if the 3A fuse is still intact.
- 3 If none of the above have rectified the fault please contact S&S Northern for further assistance.

2.2 Emergency Stop Fault

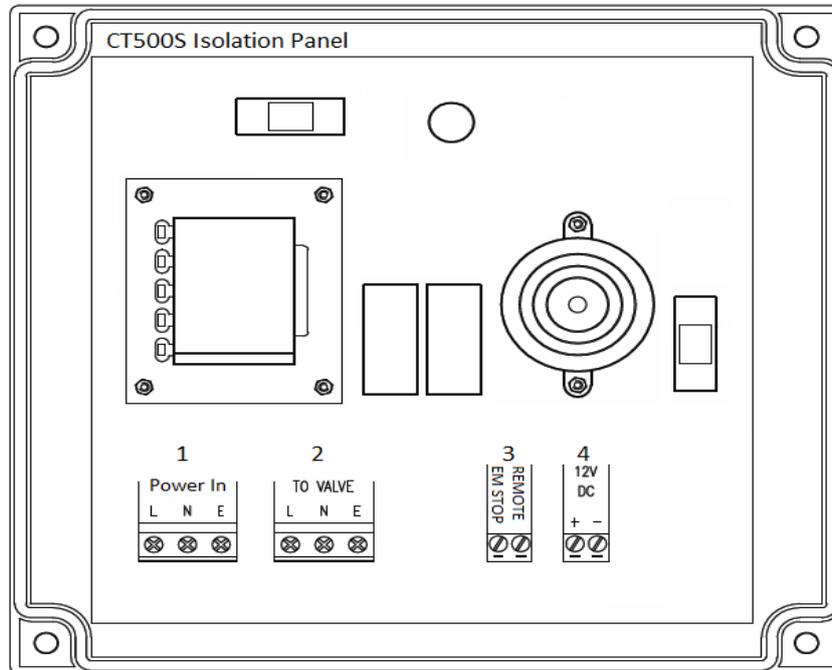
- 1 If the front fascia emergency stop has been pressed, please re-press the button to release then reset the panel using the key switch.
- 2 If you have a remote emergency stop connected to the Merlin CT500 please ensure this has not been activated.
- 3 If you have multiple remote emergency stops, please ensure they are correctly wired in a loop series to our panel and connected to the 'REMOTE EM STOP' terminal in the Merlin CT500. If incorrectly wired in a parallel circuit the stop buttons will not activate.
- 4 If you are not using an additional emergency stop, please ensure the 'EM REMOTE' terminal is linked out.
- 5 If none of the above have rectified the fault please contact S&S Northern for further assistance.

3 Operation Instructions

3.1 How to turn the system on and off

1. Turn the key switch to the on position.
2. To turn the system off, turn the key switch to off position.

CT500S Wiring Diagram



1. Mains Input 230V Single Phase.
2. Gas Solenoid Valve Power Output, 230VAC.
3. Remote EM Stop buttons and Fire Alarm input wired in series (purchased separately). **VOLT FREE INPUT**
4. Permanent 12VDC output.

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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