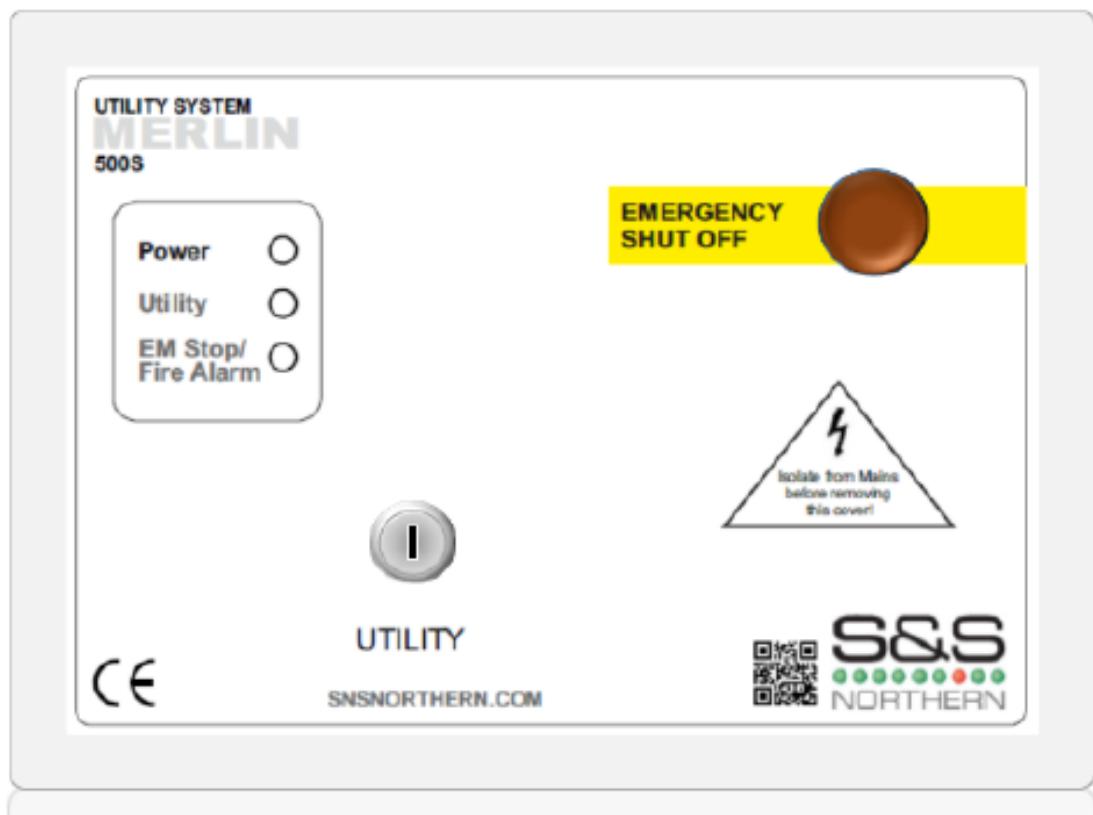


Troubleshooting Guide

Merlin 500S Utility Isolation System



S&STM
NORTHERN
Gas Safety Products

Table of contents

1	General information	3
2	Fault LED	3
2.1	Power Fault.....	3
2.2	Emergency Stop Fault	3
3	Operation Instructions	3
3.1	How to turn the system on and off	3
	500S Wiring Diagram	4

1 General information

The Merlin 500S is a utility isolation panel.

The 500S is designed to provide an effective way of isolating a utility such as gas, electric or water by means of a key switch on the panel or by the operation of the emergency shut off button. The 500S can receive connections from remote emergency shut-off buttons and fire alarms to shut down the connected utility.

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

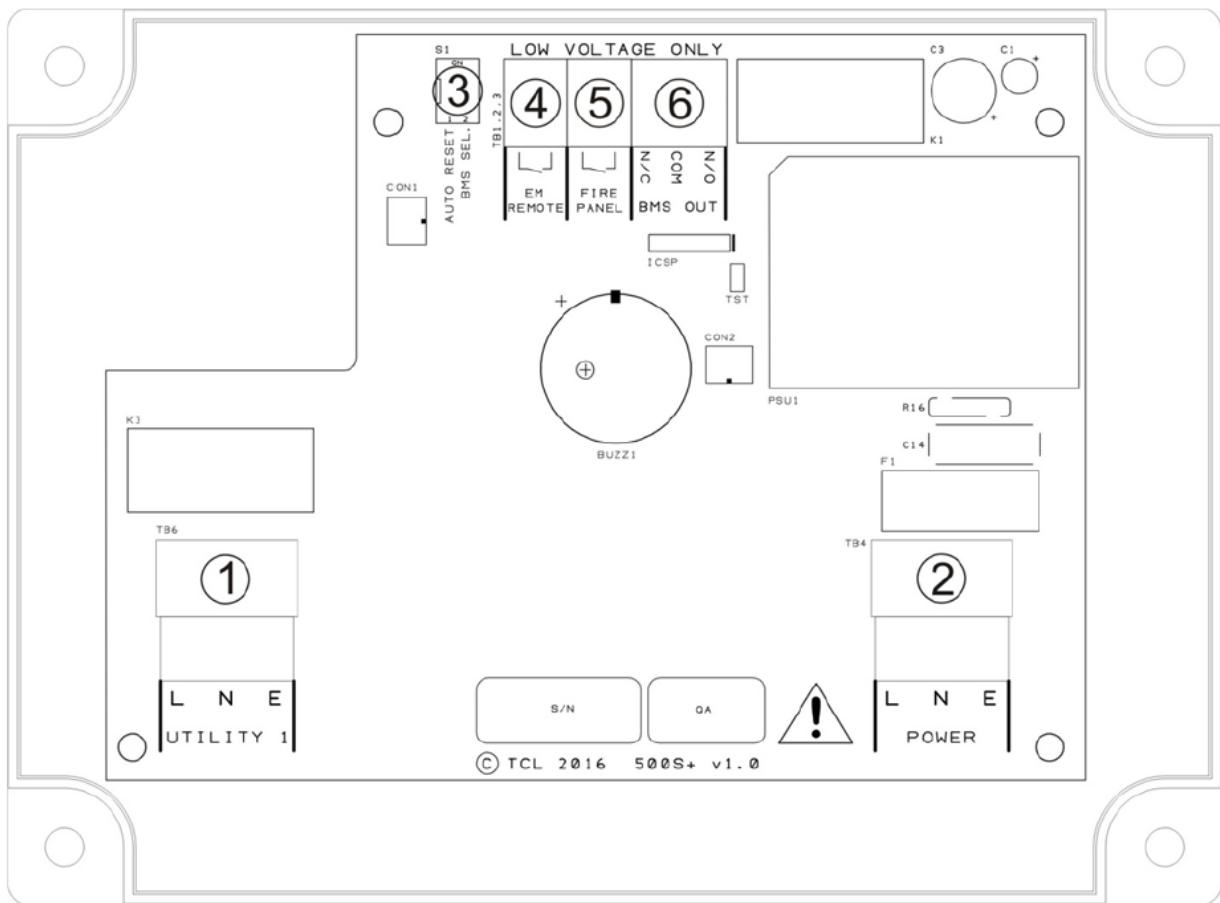
- 1 If the front fascia emergency stop has been pressed, please re-press the button to release then reset the panel using the key switch.
- 2 If you have a remote emergency stop connected to the Merlin 500S please ensure this has not been activated.
- 3 If you have multiple remote emergency stops, please ensure they are correctly wired in a loop series to our panel and connected to the 'EM REMOTE' terminal in the Merlin 500S. 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.

500S Wiring Diagram



1. UTILITY 1: Power Output, 100-240VAC, Max 3A. 50-
2. POWER: Mains electrical Input 100-240VAC Single Phase. 50-60Hz
3. AUTO RESET & BMS selection switch.
4. EM REMOTE: Remote emergency stop buttons and Fire Alarm input wired in series (purchased separately). VOLT FREE INPUT
5. FIRE PANEL: Power supply and VOLT FREE INPUT
6. BMS OUT: Normally Closed, Common and Normally Open.

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

CONTACT US:**S&S Northern Head Office**

Tel: +44(0) 1257 470 983
Fax: +44(0) 1257 471 937
www.snsnorthern.com
info@snsnorthern.com

**South East Division**

Tel: +44(0) 1702 291 725
Fax: +44(0) 1702 299 148
south@snsnorthern.com

Rev	Date	Author	Description
01	14.12.2021	S&S Northern SH + BT	Merlin 500S Troubleshooting Guide – Second issue

S&S Northern is the owner of this document and reserves all rights of modification without prior notice.
