

500S+ Dual Utility Isolation Controller

Product Overview:

The Merlin 500S+ is a two zone isolation panel with two outputs: UTILITY 1 & UTILITY 2. The 500S+ is designed to provide an effective way of isolating gas, water, electricity, oil, compressed air etc. by means of a key switch on the panel or by the operation of the emergency shut off button.

The key operated 500S+ product carries a 3 Year warranty and is fully supported by our technical team. The 500S+ has a fascia mounted emergency shut off button fitted as standard and the fascia mounted LEDs give simple and concise information to the operator. The panel is fully compatible with S&S remote emergency stop buttons allowing a large number of EPO buttons to be connected in series and wired back to the panel. The 500S+ can be integrated with a BMS and fire alarm via a low voltage dry contact.

The 500S+ is an excellent dual isolation panel. Simple to fit with little maintenance required and is covered by the full support that comes with the entire range of Merlin products.



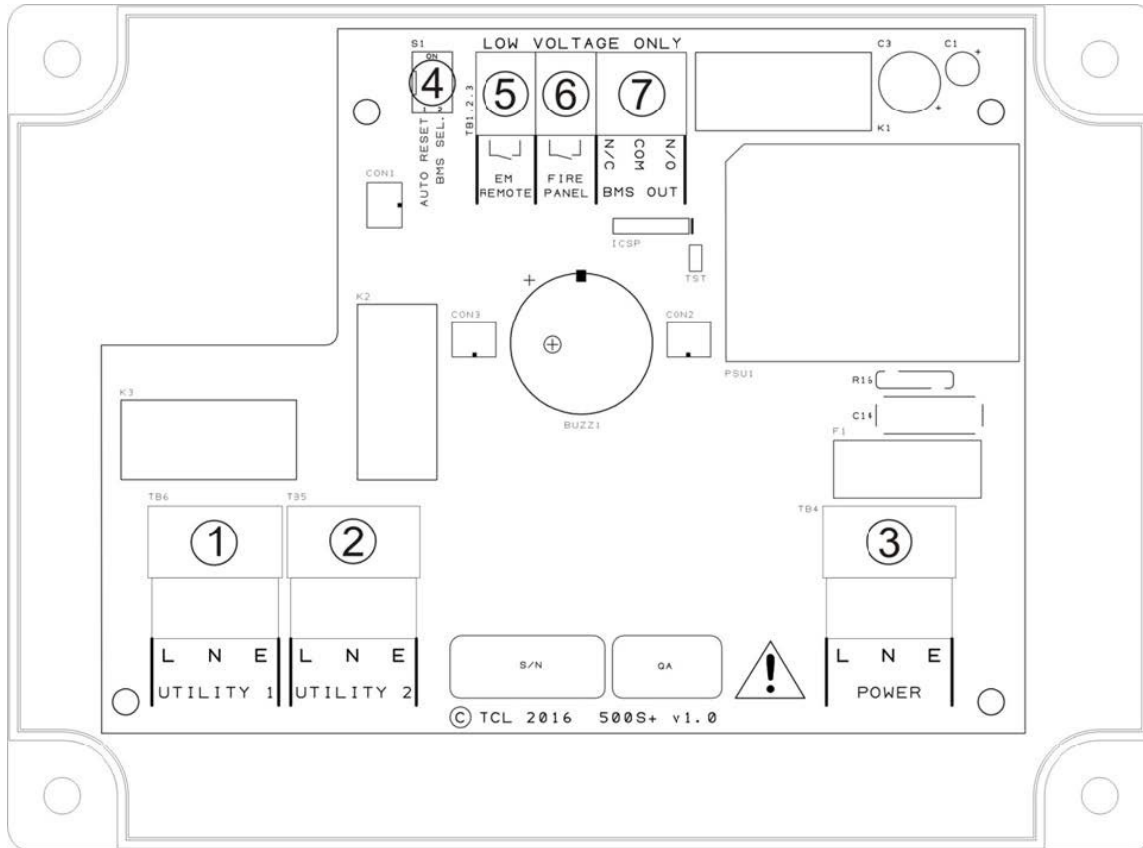
Technical Specifications

General

| | |
|----------------------------|--|
| Model: | Merlin500S+ |
| Use: | Indoor, Safe Areas (not to be used in explosive atmospheres) |
| Indicators | LED |
| Mounting | Wall Mounting |
| Power Voltage Input Range | 230VAC |
| Utility Output Range 1 & 2 | 230VAC |
| Dimensions (W x H x D) | 140 x 190 x 62mm / 5.51 x 7.48 x 2.44" |
| BMS Terminal | (Normally Closed / Common / Normally Open) 1A Max @ 230VAC |
| EM Stop Input | Volt Free* |
| Fire Alarm Input | Volt Free* |
| Fuse | 3.15A |
| Unit Weight (Approx.) | 0.7kg / 24.7oz |
| Housing Material | Polylac - PA765 |
| Ingress Protection | IP65 (Pre-Installation) |
| Storage Conditions | Dry. Cool. Flat |
| Operating Conditions | -10 ~ 50°C / 14 ~ 122°F 30 ~ 80% rh |
| Compliance | EN 61326-1 / BS EN IEC 61010-1 |

*Volt Free. Do not connect any device which generates a separate source of voltage on this circuit. Any voltage applied to these connections will damage the microcontroller.

500S+ PCB Overview



POWER / LINE IN

100-240vac mains power supplied to the [POWER/LINE IN] connector using a 3-core cable and fused at 3A. On connecting the mains supply to the panel the power LED indicator will light up – this is located on the front cover.

UTILITY 1

100-240vac electrical power output from the [UTILITY 1] connector using a 3 core cable can be connected to a gas solenoid valve which can shut the gas supply on alarm status. Refer to your valve manual for more information.

UTILITY 2

100-240vac electrical power output from the [UTILITY 2] connector using a 3 core cable can be connected to a gas solenoid valve which can shut the gas supply on alarm status. Refer to your valve manual for more information.

EM REMOTE

Open/close connections for external shut-off buttons. If using multiple shut off buttons, wire in parallel.

FIRE PANEL

Open/close connections for fire alarms.

BMS OUTPUT

Volt free connections are available on the board for Building Management Systems.

This is a relay that changes state in alarm or when the gas line is on/off and can be used in conjunction with other external relays that affect other devices and controls such as purge fans and audible alarms etc.