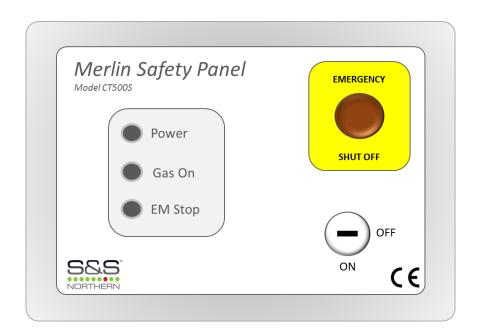
Gas Safety Products

Merlin CT500S Gas Isolation Panel





Installation, Operation and Maintenance



Read these instructions carefully before operating or servicing

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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.

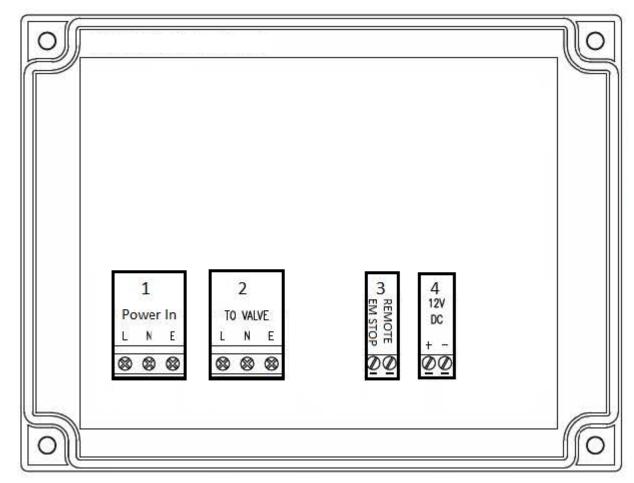
It is recommended that the user reads this guide before using the system. Please do NOT attempt to operate the unit until the contents of this document have been read and are thoroughly understood.

2 INSTALLATION

2.1 PANEL MOUNTING

The control panel is designed for surface mounting using 4 mounting screws. Removing the cover on the panel gives access to the circuit board.

2.2 CT500S CIRCUIT BOARD TERMINALS



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2.3 **POWER** [1]

A 240VAC Single Phase electrical supply should be supplied to the panel.

This should be externally fused at 3 Amps using a fused or circuit breaker.

2.4 GAS VALVE [2]

This outlet provides a 240VAC 3 amp signal to the solenoid valve. Please consult the solenoid valve installation instructions for further information.

2.5 REMOTE EM STOP [3]

These connections are linked out as a factory setting.

Remote emergency shut-off buttons should be volt free and wired to the Merlin panel using a two-core cable.

2.6 12VDC [4]

This is a permanent 12v DC output when there is power at the panel and can be used to create a relay switch with the BMS relay output.

Please contact your supplier for further information.

2.7 INTERNAL BUZZER

Operates at 65dB measured 30cm from closed panel.

3 OPERATION

3.1 SYSTEM ON & OFF

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

3.2 LED STATUS

POWER

When the system is connected to the mains supply.

When no power is present, this LED will not light up.

GREEN = OK

OFF = No power to CT500S, a loose ribbon connection or the fuse may not be intact.

GAS ON

When the fans are operational and the key switch is turned on, the Merlin CT500S will check the installation for gas leaks. If gas proving is successful, the gas valve will open and the green 'Gas On' LED will illuminate.

GREEN = Gas On

OFF = Gas Off

EM Stop LED

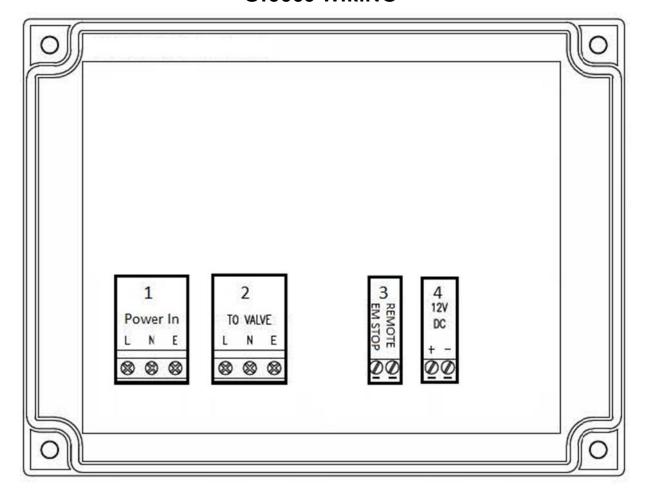
If an emergency shut off button (either remote or on the panel) is pressed, the LED will illuminate AMBER and the gas will be turned off. The EM Stop button must be re-set before restarting the system.

OFF = OK

AMBER = EM Stop button pressed

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CT500S WIRING



- 1) [POWER] Mains Input 230-240VAC Single Phase.
- 2) [GAS VALVE] Gas Solenoid Valve Power Output, 230-240VAC, Max 3A.
- 3) [REMOTE EM STOP] Remote EM Stop buttons and Fire Alarm input wired in series **VOLT FREE** (Purchased separately).
- 4) [12VDC] Permanent 12VDC output when there is power at the panel. 50mA max

Panel Net Weight: 961g

Panel Dimensions: (W) 190 x (L) 140 x (D) 60mm

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INFORMATION ON WASTE DISPOSAL FOR CONSUMERS OF ELECTRICAL & ELECTRONIC EQUIPMENT

When this product has reached the end of its life it must be treated as Waste Electrical & Electronics Equipment (WEEE). Any WEEE marked products must not be mixed with general household waste, but kept separate for the treatment, recovery and recycling of the materials used. Please contact your supplier or local authority for details of recycling schemes in your area.

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