



## Gas Safety Products

### Merlin FS1 & FS2

Single & Dual Fan Switches

## User Guide



Please read this guide carefully and retain for future use.

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# 1 General Information

The FS1 & FS2 is a microcontroller based single or dual fan switch to automatically switch fans ON and OFF. The panel also features a selectable power off delay to allow residual heat to dissipate and a manual override.

The FS1 & FS2 have been designed to work together with the Merlin range of utility systems to add extra functionality and provide simplicity to the user.

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.

## 1.1 Panel Mounting

The control panel is designed for surface mounting using 4 mounting screws.



### Important Warning Statements

Never ignore your device when in alarm.

This device requires a continual supply of electrical power – it will not work without power.

This device should not be used to substitute proper installation, use and/or maintenance of fuel burning appliances including appropriate ventilation and exhaust systems.

Your product should reach you in perfect condition, if you suspect it is damaged, contact your supplier.



#### Information on waste disposal for consumers of electrical & electronic equipment. (EEE)

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.

## 2 Installation & Operation

### 2.1 Power Supply

A 12 – 24vDC electrical supply should be supplied to the panel and should be connected to the terminals marked [1 2 3].

### 2.2 Fan Connections

For fan installation instructions – See wiring diagram/s

### 2.3 System ON & OFF

ON – turn the key switch on Merlin Utility Controller to ON

OFF – turn the key switch to OFF

When switched ON, the FS1 & FS2 will power the fan/s automatically.

The [FAN ON] indicator will illuminate.

When switched OFF, the FS1 & FS2 will turn the fans off instantly or at a pre-selected time delay.

The [FAN ON] indicator will now be off

### 2.4 LED STATUS

#### ➤ Power LED

(RED) – Power to FS1 & FS2

(NO LED) – No Power

### 2.5 Manual Override

The ON and OFF switch mounted on the fascia of the FS1 & FS2 panels can be used to manually turn the fan/s off without using the associated Merlin utility controller.

There is no-power down time delay in the manual override mode.

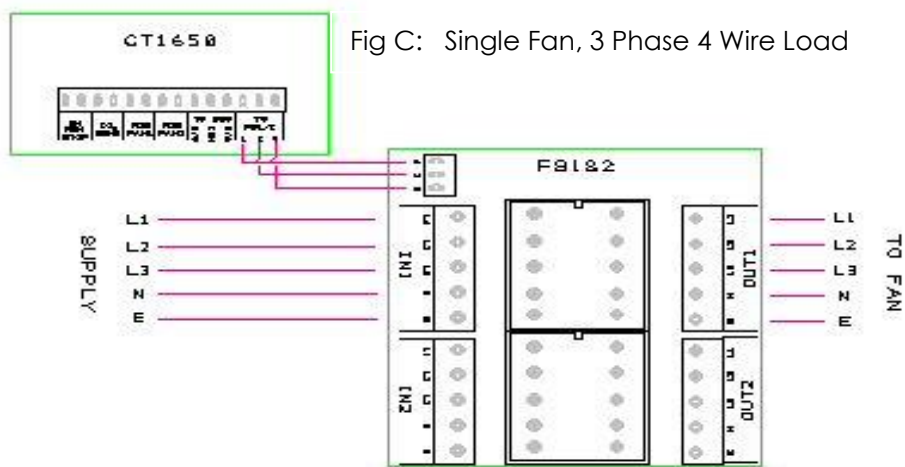
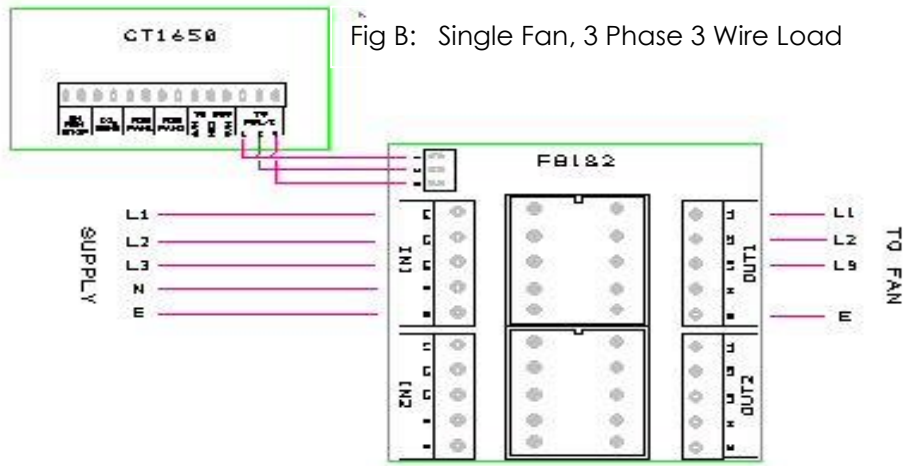
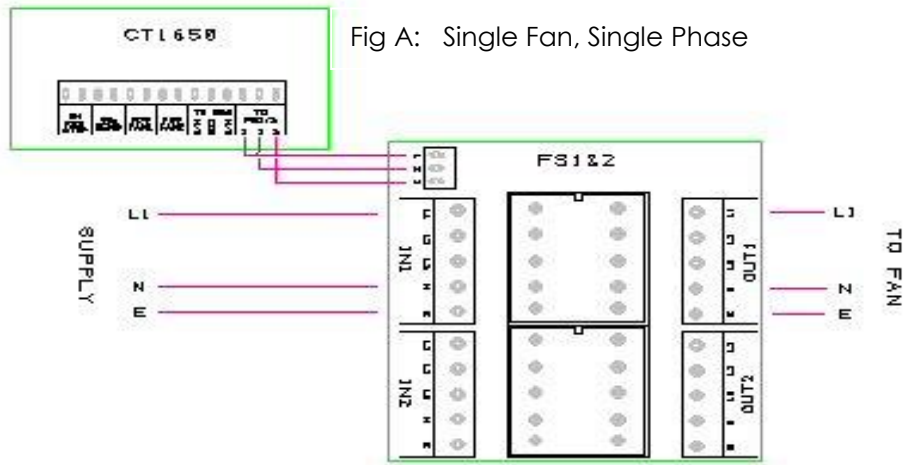
### 2.6 How to Select Power-Down Delay

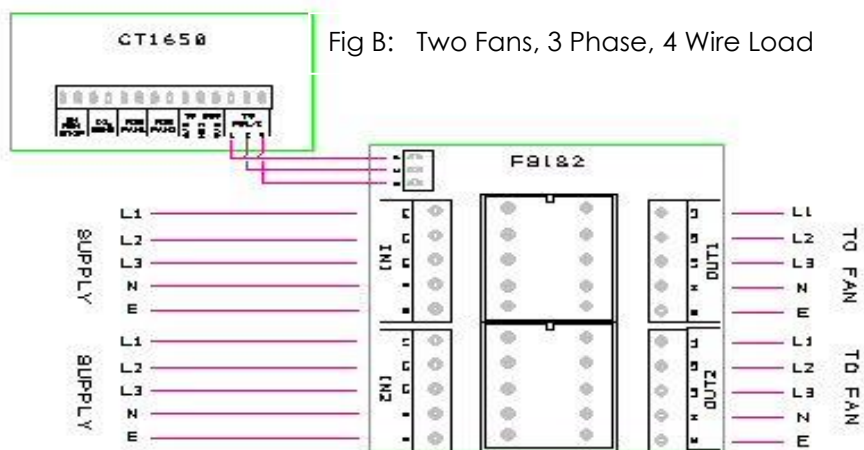
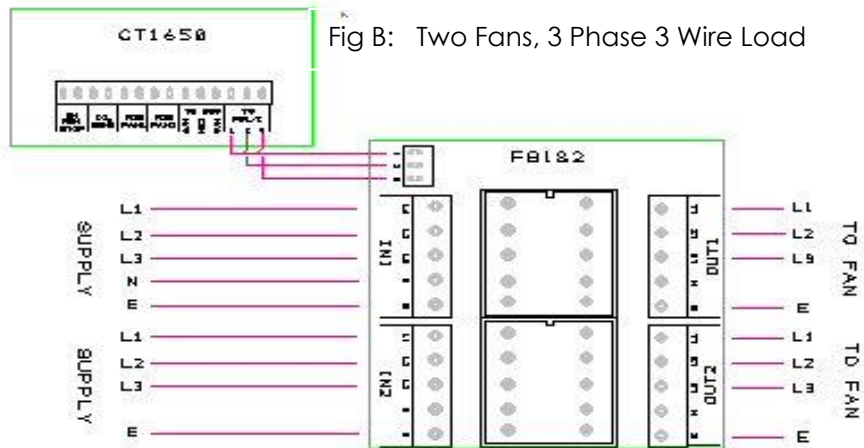
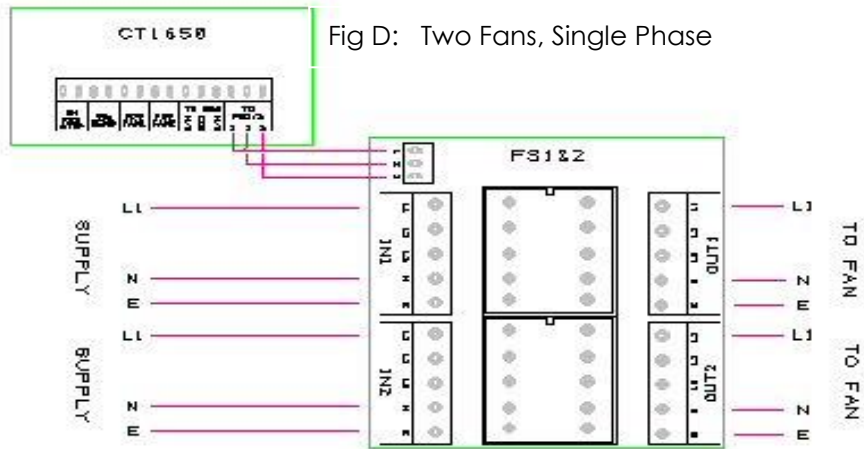
S1	S2	Mins	Status
OFF	OFF	0	No Delay. Power to the fans will be removed instantly when the Merlin utility controller is turned off.
ON	OFF	1	Power to the fans will be removed 1 minute after the Merlin utility controller is turned off.
OFF	ON	5	Power to the fans will be removed 5 minutes after the Merlin utility controller is turned off.
ON	ON	10	Power to the fans will be removed 10 minutes after the Merlin utility controller is turned off.

Please Note:

If the associated Merlin utility controller has an [EM SEL] dip-switch enabled, the time delay on the FS-1 & FS-2 should be set to OFF.

### 3 FS1 & FS2 Wiring Diagrams







## 4 Manufacturer's Warranty

### 3 Year Limited Warranty

**Warranty coverage:** The manufacturer warrants to the original consumer purchaser, that this product will be free of defects in material and workmanship for a period of three (3) years from date of purchase. The manufacturer's liability hereunder is limited to replacement of the product with repaired product at the discretion of the manufacture. This warranty is void if the product has been damaged by accident, unreasonable use, neglect, tampering or other causes not arising from defects in material or workmanship. This warranty extends to the original consumer purchaser of the product only.

**Warranty disclaimers:** Any implied warranties arising out of this sale, including but not limited to the implied warranties of description, merchantability and intended operational purpose, are limited in duration to the above warranty period. In no event shall the manufacturer be liable for loss of use of this product or for any indirect, special, incidental or consequential damages, or costs, or expenses incurred by the consumer or any other user of this product, whether due to a breach of contract, negligence, strict liability in tort or otherwise. The manufacturer shall have no liability for any personal injury, property damage or any special, incidental, contingent or consequential damage of any kind resulting from gas leakage, fire or explosion. This warranty does not affect your statutory rights.

**Warranty Performance:** During the above warranty period, your product will be replaced with a comparable product if the defective product is returned together with proof of purchase date. The replacement product will be in warranty for the remainder of the original warranty period or for six months – whichever is the greatest.

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