

FAN Motor Controller



Designed, Manufactured,
offered to you since 1994
Mt. Maunganui based

KIWI Motor Controller recommended for...

- * ALL Fans
- * Centrifugal Pumps
- * Any variable torque load



Solutions for You...

- * *Large or Small Loads* 10 to 3000watts can be controlled from the Flush Plate. Full range covers 350va - 3000va!
- * *Toughest loads* FULL AC3 Motor Rating for reliable control.
- * *Safe Speed Control* No more burnt out motors! Soft Starts to Full Speed ensuring the fan is rotating in the correct direction and the motor is operating correctly (e.g. motors, switches and capacitors operate as designed).
- * *Fits ALL Plates* Just clicks straight into PDL, HPM and Clipsal flush plates with adaptors supplied.
- * *Protects your Motor* Semiconductors rated for inductive loads. Circuitry designed to eliminate the possibility of false triggers. Microprocessor sees any imbalance in the wave, corrects, or shuts down.
- * *Accurate Air Flow* Fan Speed can be set to the desired Min and Max air flow, and 0-100% adjustability for fan noise. Air flow can be individually set by the installer with a range of fan speeds.
- * *Fully Modular* Fit up to THREE in a flush box.
- * *Thermal Safety PLUS* Temperature compensation built in and backed by a Thermal Fuse for guaranteed safety.
- * *EMC Compliant* Will not interfere with any other device.
- * *New Zealand* Owned, designed, Manufactured and Technically supported in Mount Maunganui.

M Series available in models....

MODEL	K004M	K005M	K010M	K020M	K030M
Va Rating	350	500	1000	2000	3000
Amp Rating	1.4a	2.0a	4.0a	8.0a	12.0a



Black Conversion Kits
available model KBC

Installation

Step 1 - adaptors

PDL:

- **600series** fit the adaptor into the flush plate. Then fit the KIWI to the adaptor with locknut.
- **Iconic** fit the adaptor to the KIWI with locknut. Then fit the unit into the flush plate.
- For **600 and Iconic** fit the locknut cover "stop" side up.
- **Iconic only** fit the shaft extension to the shaft.

HPM and Clipsal:

- Fit the adaptor to the KIWI with locknut.
- Fit the locknut cover, "stop" side up.
- Click the unit into the flush plate.

Step 2 - plate

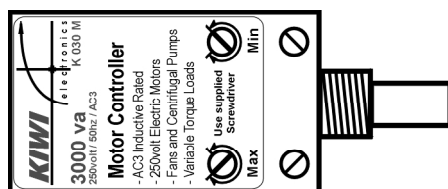
- Fit the face plate cover (if required).
- Slide the knob onto the shaft.

Step 3 - electrical

- Connection is by way of the two red wires.
- Connect one to live and the other to load.
- Turn on at the isolator.

The KIWI will Soft Start to full before returning to the speed the rotary knob has been set to. The knob has a turning angle of 270 degrees and retains memory of the last speed setting.

Minimum and Maximum Settings



Minimum

Turn the minimum trimmer clockwise to raise the minimum speed the knob can be turned down to.

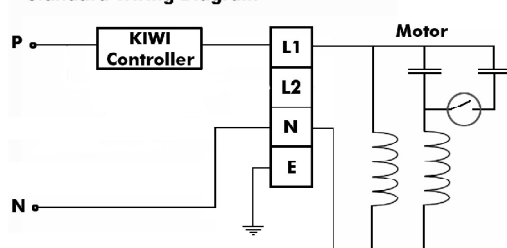
Note: The minimum level cannot be adjusted above the maximum setting.

Maximum

Turn the maximum trimmer anti-clockwise to lower the maximum speed the knob can be turned to.

Wiring Diagrams

Standard Wiring Diagram



Warnings

- ALWAYS ensure there is adequate ventilation (ie. air movement across the heatsink).
- Output from this unit will decrease if the thermal protection level is exceeded. In this event, increase ventilation.
- This unit is fitted with a thermal fuse. Exceeding a continuous current of 16amps or failing to supply adequate ventilation it will permanently open circuit.
- Do not exceed the specified Volt Amp (va) Rating.
- The KIWI Motor Controller has been designed to be connected in series with the load. Do not connect between phase and neutral.

Manufactured in NZ by: **KIWI Electronic Design Ltd**

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Email: contact@kiwielelectronics.co.nz

Web: www.kiwielelectronics.co.nz

Product Specifications

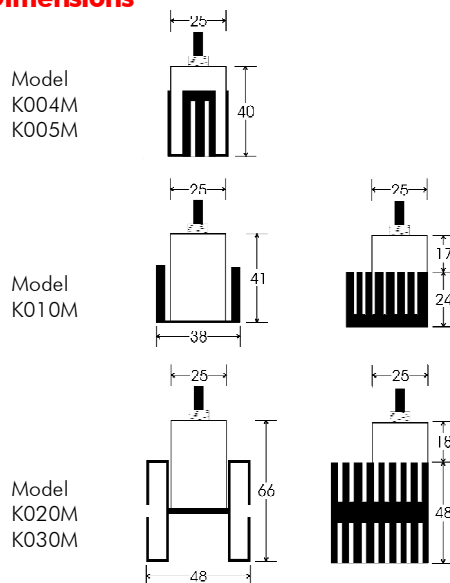
- Input voltage 250volt
- Output voltage 0% to 99% of input
- Frequency 50/60hz
- Minimum current 5watts - K004M, K005M
100watts - K010M, K020M, K030M
- Load rating AC3 Inductive
- Switching type Leading Edge
- Max per flush box 3 x K004M
3 x K005M, 2 x K010M
1 x K020M, 1 x K030M

(Ensure mounting method promotes air flow.)

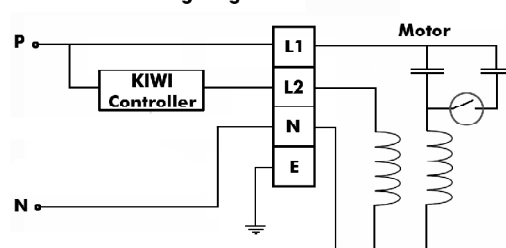
- Ambient temp 25°C
- Thermal Fuse 16amp/110°C max
- Thermal Protection Activated above 70°C
- Knob Rotation 270° with memory
- EMC/RFI approval AS/NZS 4051
- Designed to AS3100

Note: Specifications may change without notice.

Dimensions



Alternative Wiring Diagram



Parts Assembly

