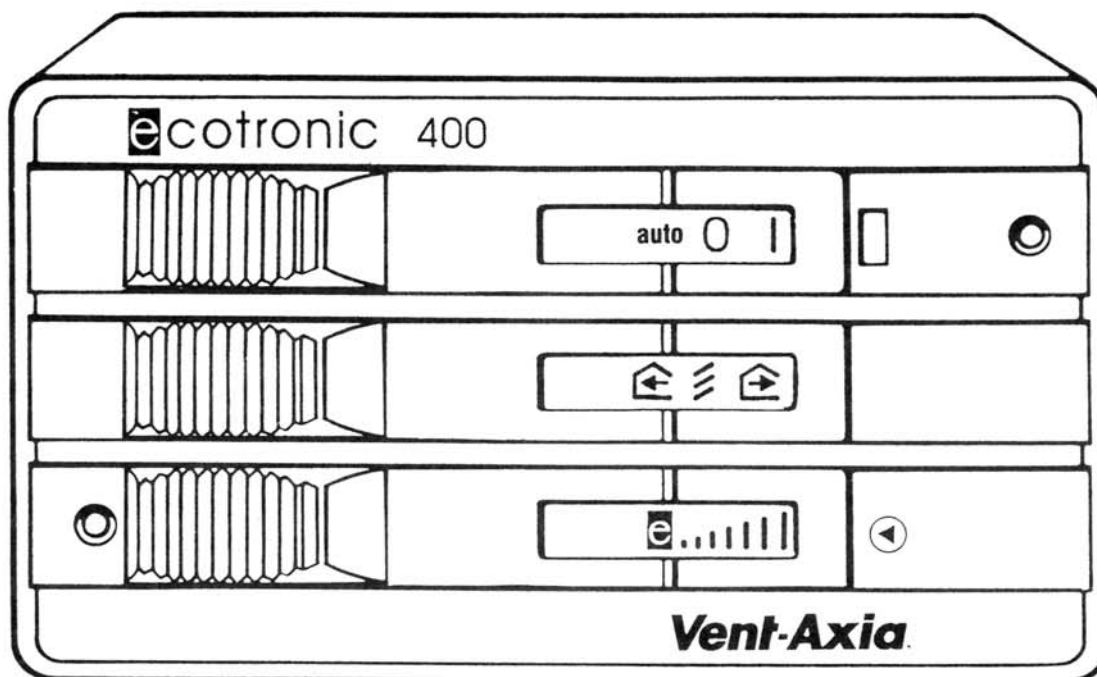


Vent-Axia®

ecotronic 400 Controller



Fitting and Wiring Instructions



IMPORTANT

PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE COMMENCING INSTALLATION.

1. It is recommended that this controller is installed by a qualified electrician.
2. The installation and wiring must comply with current IEE Regulations ,BS7671, or the appropriate standards in your country.
3. This controller is not suitable for use in rooms containing a fixed bath or shower.
4. This controller has a maximum rating of 400W @ 40°C on a 220-240V ~ 50Hz supply. Maximum ambient temperature 40°C.

Description

This controller has been designed specifically for use with Vent-Axia 'T' Series fans but may also be used to control various other loads up to the stated rating. Facilities include on/off, intake/extract, variable speed control and automatic control via electro-mechanical/ON/OFF switched sensor, e.g. electro-mechanical thermostat, timer relay, etc. When used with 'T' Series 'TX' models, a shutter open (Fan off) facility for natural ventilation is also provided.

Note:

This controller may be used with up to five 'T' Series **TX** fans (with shutter) of ONE FAN SIZE but not with a combination of fan sizes.

For 'T' Series **TL** fans (without shutter) and other loads, a quantity of fans or other load may be connected provided the total wattage does not exceed the rated watts. Only a combination of **one size of fan** should be used, NOT a combination of fan sizes. DO NOT mix 'Standard' range fans and 'T'-Series fans or any other fan types on one controller.

If you require further information, contact your local Vent-Axia Sales Centre.

Location

The controller may be sited in any convenient position that is unaffected by direct heat sources such as radiators, boilers, etc. Do not site the controller where it may be subject to water spray, condensation, damp or wet conditions. If intended for use in abnormal ambient conditions, contact your local Vent-Axia Sales Centre.

Fitting

Unscrew the two screws and remove the lid/switch from the mounting box. The mounting box may be fixed to most single or double gang recessed metal outlet boxes or alternatively fixed direct to the wall for surface cable entry. When using surface wiring that is not being contained in conduit, the supply and output cables must be securely clipped to the mounting surface, close to the controller.

Wiring

WARNING: THIS APPLIANCE MUST BE EARTHED

Ensure that mains supply is isolated before proceeding with the wiring. The installation must be provided with a double-pole isolator switch, having a contact separation of not less than 3mm, and be protected with a 5 amp fuse (U.K.).

For 'T' Series 'TX' fans (with shutter) make electrical connections as shown in the wiring diagram to obtain all available functions of the controller.

For 'T' Series 'TL' fans (without shutter) proceed as for 'TX' fans but connection between terminal L3 in controller and fan need not be made.

If you require the controller to operate the fans in one direction only, proceed as follows:

For EXTRACT operation only, remove the black link 4 located at one end of the connection block 1 and place in storage slot 5.

For INTAKE operation only, proceed as for extract operation but in addition change over leads L1 and L2 in the controller.

NB For wiring this Controller with Vent-Axia Standard range fans – see wiring diagram.

For AUTOMATIC REMOTE SWITCHING (if required) see also relevant sensor wiring instructions.

Note:

Only mechanical or electro-mechanical switched sensors should be used.

Connect sensor switch leads to L4 and L5 in the connector block 2.

When slide switch is in the auto position marked **auto** automatic switching from sensor/switch (if fitted) will be obtained. Ensure sensor switch is adequately rated for the switched load.

Note:

Where more than one fan is to be used, the additional fans must be wired in parallel using suitable junction boxes (not supplied).

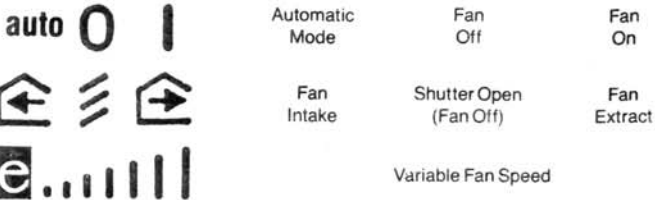
Replace the lid/switch into the mounting box. Do not over-tighten the captive screws.

VERY IMPORTANT ('T' SERIES FANS)

BEFORE switching on, check ALL fans connected to the controller and ensure that the speed control packs in the fans are all plugged in to the same speed position. Failure to do so will result in incorrect speed control and may damage the fan motors.

For maximum speed control, we recommend the speed control pack is plugged into position III.

SLIDE SWITCH FUNCTIONS



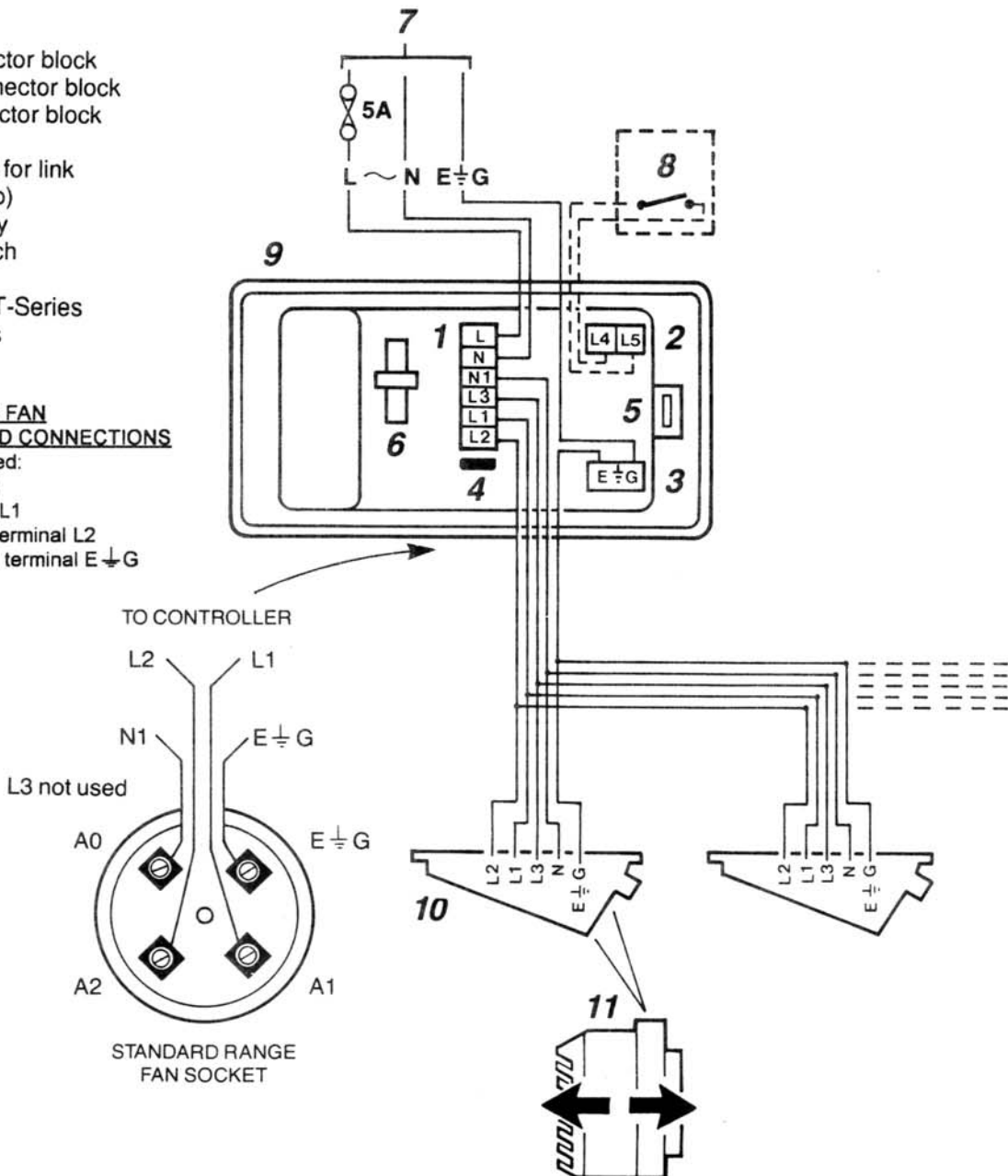
MINIMUM SPEED ADJUSTMENT

A minimum speed adjuster is located on the front of the controller and is exposed when the bottom slide bar is moved fully to the left. This adjuster is used to vary the lowest speed setting if the fans do not revolve when the controller is set to minimum speed. Using a small screwdriver, turn the adjuster clockwise to increase the minimum speed setting. After any adjustment, make sure the fans will start from a stationary condition by using the ON/OFF switch with the variable speed slide knob set fully to the left (minimum speed).

- 1 main connector block
- 2 Sensor connector block
- 3 Earth connector block
- 4 Black link
- 5 Storage slot for link
- 6 Fuse (5 Amp)
- 7 Mains supply
- 8 Sensor switch
- 9 Controller
- 10 Fan socket T-Series
- 11 Fan T-series

STANDARD RANGE FAN PANEL MODEL LEAD CONNECTIONS

Connect wire coloured:
 BLUE to terminal N1
 BROWN to terminal L1
 WHITE/BROWN to terminal L2
 GREEN/YELLOW to terminal E ⊥ G



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The Vent-Axia Guarantee

Applicable only to products installed and used in the United Kingdom. For details of guarantee outside the United Kingdom contact your local supplier.

Vent-Axia guarantees its products for two years from the date of purchase against faulty material or workmanship. In the event of any part being found to be defective, the product will be repaired, or at the Company's option replaced, without charge, provided that the product:

1. has been installed and used in accordance with the instructions given with each unit.
2. has not been connected to an unsuitable electricity supply. (The correct electricity supply voltage is shown on the product rating label attached to the unit.)
3. has not been subjected to misuse, neglect or damage.
4. has not been modified or repaired by any person not authorised by the company.

IF CLAIMING UNDER TERMS OF GUARANTEE

please return the complete product, carriage paid to your original supplier or nearest Vent-Axia Centre, by post or personal visit. Please ensure that it is adequately packed and accompanied by a letter clearly marked 'Guarantee Claim' stating the nature of the fault and providing evidence of date and source of purchase.

The guarantee is offered to you as an extra benefit, and does not affect your legal rights.

As part of the policy of continuous product improvement Vent-Axia reserves the right to alter specifications without notice.

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