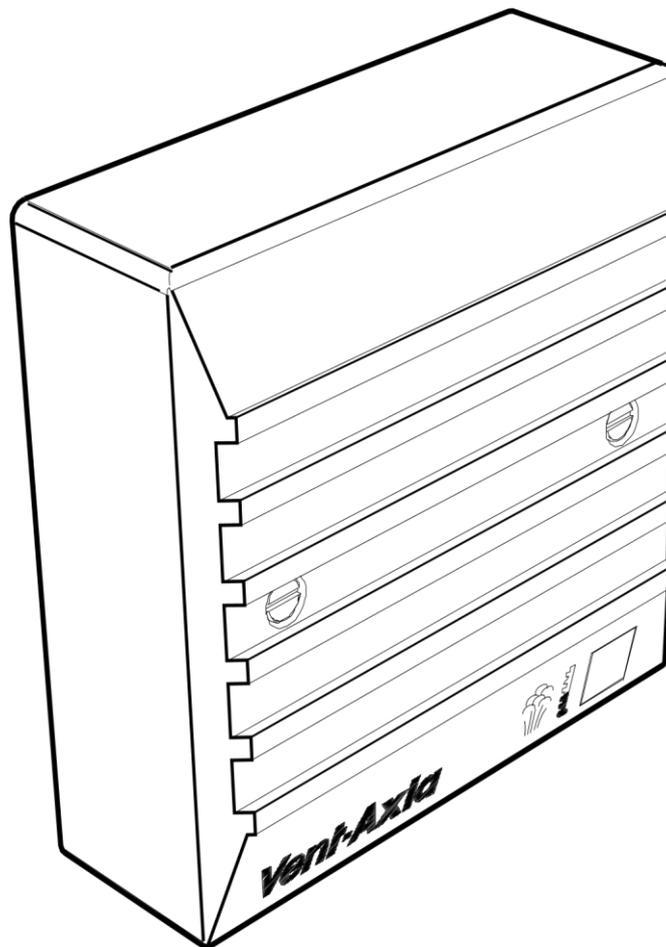


Vent-Axia[®]

LO-CARBON AMBIENT RESPONSE HUMIDITY SENSOR

Fitting and Wiring Instructions



OPERATING RANGE: +5°C to +40°C, up to 90% RH

INPUT: 11-14V d.c.

MAXIMUM LOAD: 8-14V d.c. 5.6A

REF. No. 563552A



Please leave this document with the end user.

PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLATION

OPERATION

This sensor is designed to respond to the severity of moisture generating activity as well as the ambient humidity and then to switch on an extract fan. The pull cord will override the RH control and switch the fan on to run continuously. The pull cord should be pulled again to return the sensor to the automatic mode i.e. to be activated by the Humidity sensor. There is no permanent "OFF" position.

Note to the installer and end user. When power is first applied to the sensor, it will switch the fan on for approximately 2 seconds to indicate the power is connected. If the fan remains switched on for more than 10 seconds, the pull cord should be pulled once to check that the sensor is not in override mode. (LED will go out). The LED ON indicates that the Humidity sensor is in manual override mode.

After initial start up the Humidity sensor will take approximately 1 minute to acclimatise to the local environment before entering its operational state.

SITING

- This sensor is not suitable for installation in a shower cubicle or enclosure where water droplets can cause damage to the sensing element.
- Site the sensor on a wall away from direct sources of heat and out of direct sunlight. Do not site directly above a cooker or in an area where excessive heat, smoke or grease is present as this may affect the accurate working of the Humidity sensor.
- Site the sensor away from the fan, on an inside wall between the major moisture sources and the door to the other rooms of the home, position about 100mm (4") below the ceiling and preferably in direct sight of the fan i.e. not in a dead spot behind or above a cupboard.

FITTING

The Humidity sensor is designed for fitting onto any British single-gang outlet box, either surface or recessed; which has a minimum depth of 20mm. A Vent-Axia surface mounting box (stock ref. no.410020) is available.

WIRING

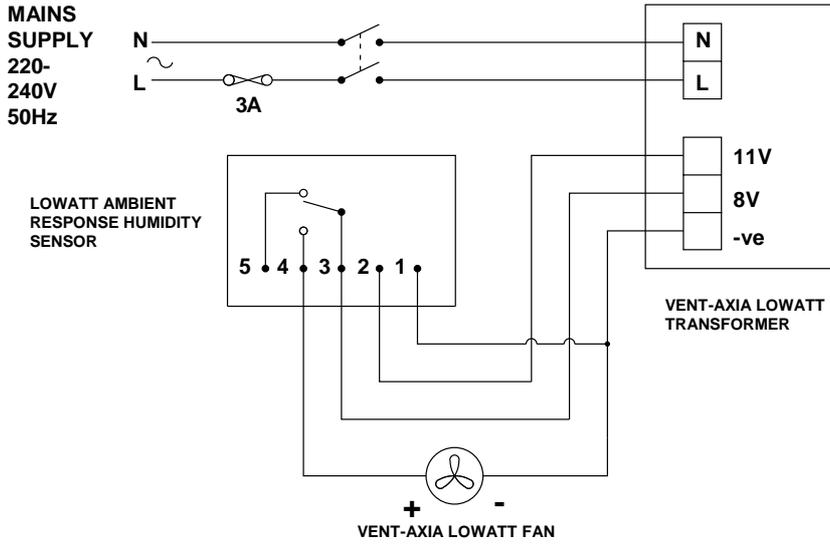
Warning

- Switch off mains before proceeding with wiring.
- Ensure mains supply is correct and the load does not exceed sensor rating.
- The sensor (and any appliance) must be installed in accordance with IEE regulations (BS7671) in the UK or the appropriate standards in your country.
- The sensor is a Class III SELV product and MUST NOT be earthed. It must be connected to an 11-14V d.c. SELV power supply which can also provide power for a Vent-Axia LoWatt fan.

Mains wiring to the transformer should be via a switched spur fitted with a 3 amp fuse (UK). The installation MUST be provided with a double pole switch with contact separation of at least 3mm. The switch should be located outside the room if it contains a fixed bath or shower, or in accordance with mandatory wiring and safety regulations.

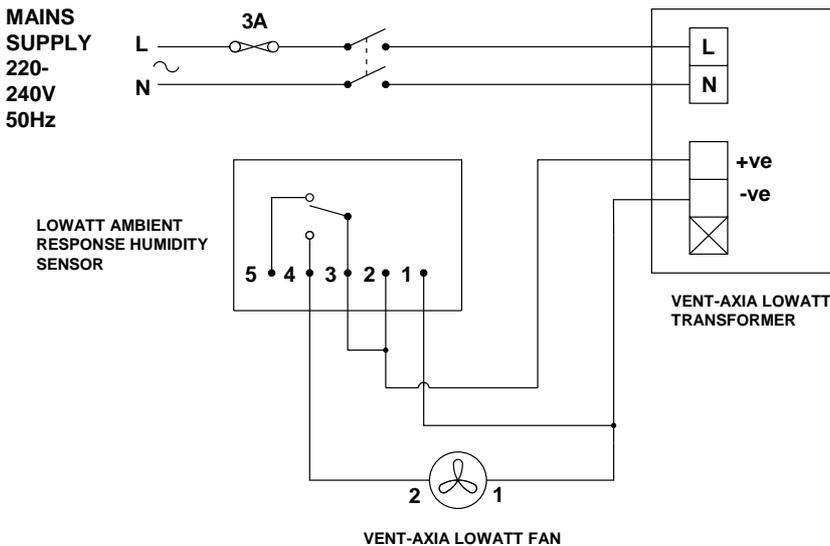
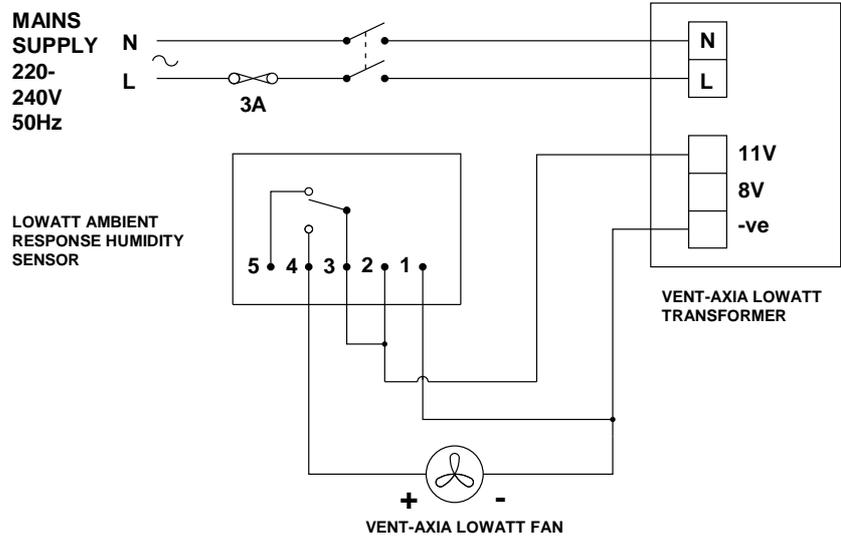
A total SELV cable run of not more than 20m is recommended. The SELV wiring should be physically separated and insulated from the mains supply or other cabling. Cut the outer sheathing back as little as possible so that the insulating sheath almost reaches the terminal block. Cable of cross sectional area not less than 0.75mm² is recommended.

WIRING DIAGRAMS



LOWATT TOILET FANS

LOWATT BATH / UTILITY FANS



LOWATT KITCHEN / SOLO FANS

DETAILS OF LOWATT AMBIENT RESPONSE HUMIDITY SENSOR TERMINALS

1. d.c. (-ve) SUPPLY
2. 11-14V d.c. (+ve) SUPPLY
3. RELAY COMMON CONTACT
4. RELAY NORMALLY OPEN CONTACT (CLOSES FOR RH% OR MANUAL OVERRIDE)
5. RELAY NORMALLY CLOSED CONTACT (OPENS FOR RH% OR MANUAL OVERRIDE)

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 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:-

- Has been installed and used in accordance with the instructions given with each unit.
- 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).
- Has not been subjected to misuse, neglect or damage.
- 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

Vent-Axia[®]

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UK NATIONAL CALL CENTRE, Newton Road, Crawley, West Sussex, RH10 9JA

SALES ENQUIRIES: Tel: 0344 8560590 Fax: 01293 565169

TECHNICAL SUPPORT: Tel: 0344 8560595 Fax: 01293 539209

For details of the warranty and returns procedure please refer to www.vent-axia.com or write to Vent-Axia , Fleming Way, Crawley, RH10 9YX