

Controllers & Sensors



TimeSwitch Controller

Surface mounting

Adjustable automatic timer for timed ventilation of internal rooms in a variety of domestic and commercial applications.

For use with any Vent-Axia fan, within maximum rating below. The controller can be wired to the lighting circuit. Alternatively it can be connected to a door switch or any other commercially available switch. The ventilating unit is switched On with the light and keeps running for a preset period of between 1 and 35 minutes after the light is switched Off.

- ▼ Finger-tip slider.
- ▼ Secret adjustable time delay feature on front fascia.
- ▼ Off/auto/manual override switch.
- ▼ Knockouts for recessed wiring.
- ▼ Dimensions: 86 x 156 x 53mm (H x W x D).
- ▼ Ambient operating temperature range 0°C to +40°C.
- ▼ Maximum load 2 amp resistive (1 amp inductive).
- ▼ Supply voltage 220-240V/1/50Hz
- ▼ Designed to meet IP20.

Stock Ref. No. W36 13 10

For wiring diagrams see page 232-233.

Flush fitting.

All Controllers on this page have the option to be flush mounted using a metal recessed box.

Stock Ref. No. 40 01 44

Dims: 80 x 150 x 50mm (H x W x D).

Registered design numbers: 1 030 207 Surface Mounting controller, 1 030 208 Flush fitting controller. Patented Remote Speed Control Circuit. European Patent number EP 0180311.

Manufacturers of some fluorescent/low energy lighting systems indicate that these can interfere with other electronic/timing circuits. For reliable operation of these circuits we recommend therefore that a tungsten filament light is used.



TimeSpan Controller

Adjustable timer with overrun facility for fans ventilating W.C.'s and other small rooms.

For use with any Vent-Axia fan within maximum rating below. The fan is switched on with the light and keeps running for a pre-set period after the light is switched Off.

- ▼ Fits to any single gang box.
- ▼ Adjustable time delay 5-25 minutes from the back.
- ▼ Ambient operating temperature range 0°C to +40°C.
- ▼ Maximum load 250W inductive.
- ▼ BEAB Approved.
- ▼ Dimensions Controller only: 87 x 87 x 33mm
- ▼ Supply voltage 220-240V/1/50Hz.

Stock Ref. No. 56 35 19

A surface mounting back box is available.

Stock Ref. No. 41 00 20.



Air Quality Sensor

Automatically reacts to the depletion of air quality, sensing tobacco smoke, smells and toilet odours to regulate mechanically ventilated areas such as cinemas, pubs, clubs, restaurants, kitchens, toilets and conference rooms.

The sensor switches the fan On when the air quality declines below an adjustable preset level. This is registered by the ceramic sensing head which is self-cleaning, a process which occurs every time the unit is triggered. When the atmosphere has returned to normal, the fan will continue to run for a pre-set period (adjustable between 1-25 minutes) and then switch Off.

The air quality sensor should not be used for the detection of combustible gases and is not designed for use as a smoke detector in an alarm system.

The AQS is compatible with T-Series, Multi-Unit, Rangemaster, Ecoltronic and TimeSwitch controllers.

The AQS is also able to switch between trickle and boost speed on the appropriate ventilation units.

- ▼ Ambient operating temperature range 0°C to +50°C.
- ▼ Dimensions: 87 x 157 x 47mm (H x W x D). Surface mounted.
- ▼ Maximum switched load: 2A inductive at 240V. Sensor consumption: 25mA at 240V.
- ▼ DEMKO Approved.
- ▼ Supply voltage 240V/1/50Hz

Stock Ref. No. 56 35 06B



Ambient Response Humidity Sensor

The latest self programming electronic On/Off wall mounted humidity sensor which reacts to any rapid increase in humidity and temperature by switching a Vent-Axia fan 'On' for rapid removal of moisture laden air, in domestic bathrooms and kitchens. Can be wired into controller "Auto" mode connections. Night time RH increment setback feature suppresses nuisance tripping when the humidity level gradually rises as the temperature falls.

- ▼ Pullcord override and neon indicator.
- ▼ Changeover relay switch
- ▼ Operating range: 30%-90%RH operating range.
- ▼ Ambient operating temperature +5°C to +40°C.
- ▼ DEMKO Approved.
- ▼ Dimensions Controller only: 87 x 87 x 33mm
- ▼ Will fit single gang box for surface mounting.

Stock Ref. No. 56 35 50

European Patent No: 2298057

All of these Sensors can be wired for either On/Off or Trickle/Boost operation.

Manufacturers of some fluorescent/low energy lighting systems indicate that these can interfere with other electronic/timing circuits. For reliable operation of these circuits we recommend therefore that a tungsten filament light is used.



Ambient Response SELV 12 Humidity Sensor

12V Safety Extra Low Voltage version for use with VA100 SELV, Solo SELV, LuminAir SELV and HR100 SELV range.

The latest self programming electronic On/Off wall mounted humidity sensor which reacts to any rapid increase in humidity and temperature by switching a Vent-Axia fan 'On' for rapid removal of moisture laden air, in domestic bathrooms and kitchens. Can be wired into controller "Auto" mode connections. Night time RH increment setback feature suppresses nuisance tripping when the humidity level gradually rises as the temperature falls.

- ▼ Pullcord override and neon indicator.
- ▼ Changeover relay switch
- ▼ Operating range: 30%-90%RH operating range.
- ▼ Ambient operating temperature +5°C to +40°C.
- ▼ DEMKO Approved.
- ▼ Dimensions Controller only: 87 x 87 x 33mm
- ▼ Will fit single gang box for surface mounting.

Stock Ref. No. 56 35 50

Stock Ref No 56 35 51



LoWatt Ambient Response Humidity Sensor

Designed specifically for the LoWatt product range. The latest self programming electronic On/Off wall mounted humidity sensor which reacts to any rapid increase in humidity and temperature by switching a Vent-Axia fan 'On' for rapid removal of moisture laden air, in domestic bathrooms and kitchens. Night time RH increment setback feature suppresses nuisance tripping when the humidity level gradually rises as the temperature falls.

- ▼ Pullcord override and neon indicator.
- ▼ Changeover relay switch
- ▼ Operating range: 30%-90%RH operating range.
- ▼ Ambient operating temperature +5°C to +40°C.
- ▼ DEMKO Approved.
- ▼ Dimensions Controller only: 87 x 87 x 33mm
- ▼ Will fit single gang box for surface mounting.

12V LoWatt version
Stock Ref. 56 35 52

Controllers & Sensors



Ecotronic Humidity Sensor

An adjustable set point, solid state On/Off sensor. A pullcord provides manual override, indicated by lamp. Adjustable from 65 to 90%RH. Can be wired into controller "Auto" mode connections. Incorporates changeover switch to select low/high speed.

- ▼ Setting range 65% - 90%RH.
- ▼ Maximum switching load 1 amp inductive.
- ▼ Pullcord override indicated by lamp.
- ▼ Ambient operating temperature 0°C to +40°C.
- ▼ BEAB Approved.
- ▼ Dimensions: 87 x 87 x 33mm.
- ▼ Supply voltage 220-240V/1/50Hz.

Stock Ref. No. 56 35 32

The Ecotronic and Ecotronic SELV 12 Sensor can be wired for either On/Off or Trickle/Boost operation.



Ecotronic SELV 12 Humidity Sensor

12V Safety Extra Low Voltage version for use with VA100 SELV, Solo SELV, and LuminAir SELV range.

- ▼ Setting range 65% - 90%RH.
- ▼ Maximum switching load 5.6A @ 12V ac.
- ▼ Pullcord override indicated by lamp.
- ▼ Ambient operating temperature 0°C to +40°C.
- ▼ BEAB Approved.
- ▼ Dimensions: 87 x 87 x 33mm.
- ▼ Supply voltage 12V ac.

Stock Ref. No. 56 35 31

Although suitable for siting within reach of a shower or bath we recommend this model is located out of the spray zone of a bath or shower.



Energy Saving Variatronic® HP2 Humidity Controller

The Variatronic HP2 has been specifically designed for use T-Series, Standard Range and Solo P for the control of humidity in domestic kitchens and bathrooms.

Completely automatic, the Variatronic HP2 is a compact, wall mounted humidity sensor that will detect subtle changes in the humidity of a room and activate the fan accordingly. Consequently, the fan is only in operation when necessary and considerable energy savings can be made. As soon as the chosen humidity threshold is reached, the Variatronic HP2 will switch the fan onto Trickle Ventilation Mode (30% of speed) and only if the humidity level rises still further (through cooking or showering, etc.) will the fan increase in speed. The fan will reach 70% of full speed if the room humidity approaches saturation. As the humidity falls, the fan speed will reduce until it reaches the preset level when the fan will switch Off. **The Variatronic controller is not designed for use with T-Series controller 'Auto' mode.**

- ▼ Pullcord override for full speed.
- ▼ Max switching load 125W.
- ▼ Dimensions: 87 x 87 x 33mm (L x H x D).
- ▼ Ambient operating temperature 0°C to +50°C.
- ▼ Supply voltage 220-240V/1/50Hz

Stock Ref. No. 56 35 10

Surface Mounting Box.
Stock Ref. No. 41 00 20



Vent-Axia HumidiSwitch®

Operates Vent-Axia ventilating units on either a rise or a fall in humidity to control the damaging effects of condensation.

- ▼ Concealed adjustment.
- ▼ Setting range 20% to 80% RH.
- ▼ Ambient 0°C to +50°C.
- ▼ 132 x 82 x 40mm (L x H x D).
- ▼ Rating 2A (1A inductive).
- ▼ Switching range 120-240V.
- ▼ Designed for use with controllers with 'Auto' mode facility.
- ▼ Single pole changeover contacts.

Stock Ref. No. 56 35 01D



7 Day TimeSwitch

For applications where regular switching is required at fixed periods or at different times on different days of the week, eg: offices, shops, pubs and restaurants.

The 7-day TimeSwitch gives twelve On or Off positions per day and can be set for 7 days. The cycle will repeat until changed.

- ▼ Analogue clock display and integral time switches for ease of setting.
- ▼ Manual override.
- ▼ Removable clear plastic cover protects timeswitch face.
- ▼ Time base: 7 days.
- ▼ Shortest switching time: 2 hours.
- ▼ Maximum load: 16amp resistive (8amp inductive).
- ▼ Ambient operating temperature range -20°C to +85°C.
- ▼ Dimensions: 104 x 74 x 52mm (H x W x D).
- ▼ Supply voltage 220-240V/1/50Hz

Stock Ref. No. 56 35 15



Vent-Axia ThermoSwitch®

Automatically switches On fans on either a rise or fall in air temperature. The ThermoSwitch can be used with all Vent-Axia fans (via switchgear if appropriate) for the removal of warm air from buildings. It can also be used to switch On Hi-Line ceiling fans for Summer cooling and to move high level warm air down to the working level during Winter.

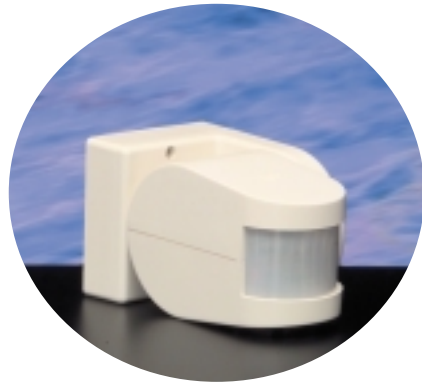
- ▼ Setting range: +6°C to +30°C.
- ▼ Two internal range limit/locking rings are included to allow setting within a limited temperature range or locking at a fixed set-point.
- ▼ IP20 rated.
- ▼ Sealed sensing mechanism.
- ▼ Snap-action, single pole, changeover contacts.
- ▼ Mounting direct on surface only.
- ▼ Electrical connection to screw type terminals with rear or side cable entry.
- ▼ Dimensions: 80 x 104 x 36mm (H x W x D).
- ▼ Contact rating: 1.5amp (inductive).
- ▼ Maximum voltage 250V

Stock Ref. No. 56 35 02B

Humidity sensors should be sited approx. 100mm below ceiling level and not above cupboards, refer to siting details in fitting and wiring instructions supplied with product.

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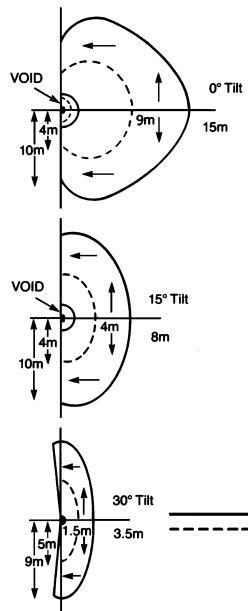


Guardian Personnel Detector (PIR Sensor)

Suitable for controlling a range of Vent-Axia fans. Continuously monitors an area and activates when a moving body is detected.

- ▼ Supplied complete with wall mounting bracket.
- ▼ Adjustable timer overrun (5 seconds to 20 minutes).
- ▼ Supplied with lens to provide 15m (max) range, 180° detection area.
- ▼ Designed to meet IP44.
- ▼ Ambient operating temperature range - 20°C to +50°C.
- ▼ Maximum load: 10 amp resistive (5 amp inductive). Suitable for use with fluorescent lighting up to 500W.
- ▼ Internal use only.
- ▼ Supply voltage 220-240V/1/50Hz

Stock Ref. No. 56 35 48



Vent-Axia Visionex PIR

A wall or ceiling mounted movement detector for use with any domestic Vent-Axia mains voltage product. Also suitable for use with Vent-Axia T-Series controllers on 'Auto' setting and ITC controllers on sensor mode.

- ▼ Fits any UK single gang mounting box.
- ▼ Adjustable timer overrun (5-25 minutes).
- ▼ Range of detection up to 10 metres.
- ▼ Designed to meet IP43.
- ▼ Ambient operating temperature range 0°C to +50°C.
- ▼ Maximum load: 600W inductive. Not suitable for use with lighting.
- ▼ Internal use only.
- ▼ No switched live required for internal rooms and toilets.
- ▼ Double insulated.
- ▼ Volt-free contacts.
- ▼ Supply voltage 220-240V/1/50Hz

Stock Ref. No. 45 96 23

Surface fitting wall mounting box.
Stock Ref. No. 41 00 20



Vent-Axia Visionex SELV 12 PIR

A wall or ceiling mounted movement detector for use with any domestic Vent-Axia SELV 12 product.

- ▼ Fits any UK single gang mounting box.
- ▼ Adjustable timer overrun (5-25 minutes).
- ▼ Range of detection up to 10 metres.
- ▼ Designed to meet IP43.
- ▼ Ambient operating temperature range 0°C to +50°C.
- ▼ Maximum load: 5.6 Amps inductive @ 12V.
- ▼ Internal use only.
- ▼ No switched live required for internal rooms and toilets.
- ▼ Class III product.
- ▼ Volt-free contacts.
- ▼ Supply voltage 12V/1/50Hz

Stock Ref. No. 45 96 24

Surface fitting wall mounting box.
Stock Ref. No. 41 00 20



3 Pole Isolator

Isolates Live, Neutral and Switched Live for integral timer fans. 6 amp, 3 pole isolator complying to the 3mm contact separation requirement for routine maintenance repair.

Stock Ref. No. 56 35 18



Remote Delay Timer

A remote delay timer for use with all domestic products gives the option of offering a 2 minute delay before the fan starts. Once the fan has started the overrun timer is adjustable between 5-25 minutes.

Stock Ref. No. 45 79 86



Fan Speed Adjuster

5 step speed adjuster for domestic kitchen extract fans, that can reduce the speed to 40% of its maximum performance.

Stock Ref. No. 45 81 53



Push Button Timer

The New Vent-Axia Push Button Timer is ideal for applications that require an accurate timing period. Pushing the button activates the circuit, and starts the timing period. The timer has been designed for general purpose loads, a neutral feed is required at the switch position. This will allow the timer to be used in various applications from incandescent, fluorescent and compact fluorescent lighting to heating and ventilation loads. Adjustable timing range between 1 second and 2 hours.

Three different modes of operation can be set on the timer to provide a variety of options to suit particular applications.

On/Off Mode: Operating the unit will start the timing sequence. Operating the unit again during operation will stop the sequence immediately. If the unit is not pressed again after initial operation, the timer will switch off after the adjustable preset time period has elapsed.

Resetting Mode: Operating the unit will start the timing sequence. Operating the unit again during operation will restart the timing sequence.

Non-Resetting Mode: Operating the unit will start the timing sequence. Operating the unit again during operation will have no effect.

Stock Ref. No. 42 64 16

Controllers & Sensors



Pullcord Activation Timer

The New Vent-Axia Pullcord Activation Timer can be used in damp areas if required. As the timer has been designed for general purpose loads, a neutral feed is required at the switch position. This will allow the timer to be used in various applications from incandescent, fluorescent and compact fluorescent lighting to heating and ventilation loads. Adjustable timing range between 1 second and 2 hours.

Three different modes of operation can be set on the timer to provide a variety of options to suit particular applications:

On/Off Mode: Operating the unit will start the timing sequence. Operating the unit again during operation will stop the sequence immediately. If the unit is not pressed again after initial operation, the timer will switch off after the adjustable preset time period has elapsed.

Resetting Mode: Operating the unit will start the timing sequence. Operating the unit again during operation will restart the timing sequence.

Non-Resetting Mode: Operating the unit will start the timing sequence. Operating the unit again during operation will have no effect.

Stock Ref. No. 42 64 17



PIR Timer Switch

The New Vent-Axia PIR Timer has been designed to control heating and ventilation. The PIR Timer is switched on by detection of moving body heat within the detection range. When body heat is no longer detected, the unit will switch off after the adjustable time period has elapsed. If moving body heat is detected again during the timing period, the timing sequence will restart. Adjustable timing range between 10 seconds and 1 hour. As these timers have been designed for general purpose loads, a neutral feed is required at the switch position. This will allow the timer to be used in various application from incandescent, fluorescent and compact fluorescent lighting to heating and ventilation loads. Electric heating can be controlled, either directly or via the heater control circuit. Several timers can be wired in parallel to control the same load if required.

Stock Ref. No. 42 64 18



Push Button Waterproof Timer

The New Vent-Axia Push Button Waterproof Timer has been designed for general purpose outdoor applications, with an 84 x 84 x 62mm enclosure that has pushouts for 6 x 25mm plain conduit entries. The unit will require a neutral feed at the switch position, allowing the unit to be used in various applications from incandescent and fluorescent lighting to heating and ventilation loads. The timer has an adjustable timing range between 30 minutes and 1 hour and is housed in an IP56 weatherproof enclosure.

Stock Ref. No. 42 64 14



Electronic Timer for heating and ventilation control

The New Vent-Axia Electronic Timer allows an appliance to be powered for a set time period, and shows the user how much time is left. The timing-out period is adjustable between 15 minutes and 2 hours in 15 minute increments. The LED easy read display shows how much time is left to run during operation.

The unit has a powerful 20 Amp output rating for heating, which is ideal to control immersion heaters and panel heaters, and it can also be used for fans. The On/Off button allows the user to cancel the timing during operation. The timer has intelligent memory, remembering the last timing period set.

Stock Ref. No. 42 64 15



KeyCard Energy Saving Switches

The New Vent-Axia KeyCard Energy Saving Switches reduce the cost of the energy wasted when power is left on in unoccupied rooms. Hotels, Guest Houses and student accommodation are among the establishments where substantial energy and cost savings can be made by installing these innovative switches. In a hotel application the guest simply inserts the hotels own room entry card into the KeyCard switch or the key fob into the KeyTag switch and the power is turned on. When the occupant vacates the room, the removal of the card or fob from the switch isolates the power.

The Vent-Axia KeyCard has been designed to accommodate the modern types of magnetic card room entry systems such as VINGCARD and CORKEY. The KeyCard switch is available with the 'Excel' style faceplate, which has no visible screws or plugs, and has interchangeable faceplates with a choice of white, polished brass, polished silver or matt silver metallic finishes.

White Stock Ref. No. 42 64 19



Matt Silver Stock Ref. No. 42 64 20



Polished Silver Stock Ref. No. 42 64 21



Polished Brass Stock Ref. No. 42 64 22



KeyTag Energy Saving Switches

The New Vent-Axia KeyTag unit is available with the white 'standard' style fascia, which is supplied with plugs to cover the fixing screws, increasing tamper-proofing. The KeyTag switch is supplied with a large plastic fob that has ample room to print hotel names, room numbers and addresses. Additional fobs can be purchased separately.

Due to the ability of the switches to mount on to a standard single BS backing box using the adaptor plate supplied, installation of the wiring or conversion of existing wiring couldn't be easier.

Standard units have one or two internal 20 Amp switch mechanisms which can be configured with the entry slot to the top or the bottom of the switchplate. The modular design of the products mean that various options can be custom built to suit any particular requirements. Please contact the Vent-Axia Customer Service Department for customisation details to suit particular requirements and specification. Up to four 20 amp mechanisms can be controlled, ensuring high current applications such as air-conditioning and heating systems can be automatically switched off when a suite is vacated. Additionally, two further external switch mechanisms can be built into the switchplate, providing manually operated switches for lighting or other equipment. Neon pocket indicators are available to provide an easily visible backlit slot to locate the KeyCard/KeyTag providing ease of use in a dark location.

Stock Ref. No. 42 64 23