

Sentinel D-Box Sensors & Controls



Ambient Response Humidity Sensor*

Humidity Sensor control is fixed at 72 - 75%RH. Incorporates a night time 'set back' function to avoid nuisance tripping as the humidity level rises when the air cools. An integral pullcord provides a manual override function if required. Can be wired for either On/Off or Trickle/Boost operation. Pullcord override and neon indicator. Changeover relay switch. Operating range: 30% - 90%RH. Ambient operating temperature +5°C to +40°C. 24V DC SELV. Dimensions: 87 x 87 x 33mm (H x W x D). Will fit single gang box for surface mounting.



Stock Ref

432945

rings are included to allow setting within a limited temperature range or locking at a fixed set-point. IP20 rated. Sealed sensing mechanism. Mounting direct on surface only. Dimensions: 80 x 104 x 36mm (H x W x D). Volt free switch connection to Sentinel.

Stock Ref

563502

Air Quality Sensor (AQS)*

Automatically reacts to the deterioration 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 when the air quality declines below an adjustable preset level. This is registered by a self-cleaning ceramic sensing head. The air quality sensor should not be used for the detection of combustible gases. Ambient operating temperature range 0°C to +50°C. MIN - MAX mode or direct Damper control. Dimensions: 87 x 157 x 47mm (H x W x D) Surface mounted. 1 - 25 min O/R timer. Supply voltage 24V DC SELV.

Stock Ref

432953

Ecotronic Humidity Sensor*

Humidity Control is automatic and can be set to switch between 65 and 90%RH. An integral pullcord provides a manual override function if required. Can be wired for either ON/OFF or Trickle/Boost operation. Set point adjustable. Maximum switching load 1 amp inductive. Pullcord override indicator. Ambient operating temperature 0°C to +40°C. Dimensions: 87 x 87 x 33mm (H x W x D). Supply voltage 24V DC SELV.



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.

Stock Ref

432949

Vent-Axia Visionex PIR*

A wall or ceiling person presence detector for use with Sentinel. Can be used in MIN - MAX mode or for direct damper control.



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. Supply voltage 24V DC SELV.

Stock Ref

433162

Vent-Axia ThermoSwitch®

Automatically switches on fans on either a rise or fall in air temperature. Can be used for Trickle/ Boost operation on either intake or extract systems. Setting range: +6°C to +30°C. Two internal range limit/locking



* PLEASE NOTE: These sensors/controls are unique to Sentinel and CANNOT be used with any other product.

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. Volt free switch connection to Sentinel.

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. 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

563515

Remote Speed Control*

Provides infinitely variable Sentinel fan speed control between the 2 set points in Proportional mode. This control does NOT provide an ON/OFF switching facility.



Manual control. Located remotely. 24V DC SELV. Ambient operating temperature -5°C to +40°C. Dimensions:84 x 84 x 30mm (H x W x D). Will fit single gang box for surface mounting.

Stock Ref

426332

CO₂ Duct Probe

High CO₂ levels promote increased fatigue and reduced concentration. This sensor monitors CO₂ levels in extract ducts from conference areas, offices, theatres etc. With Sentinel in Proportional control mode, air extraction rate tracks the CO₂ level to improve indoor air quality.



24V DC SELV. 0 - 2000ppm CO₂ working range. Auto-calibrating NDIR absorption sensor. Stable drift compensation. Adjustable probe length. MAX. IP Rating 65.

Stock Ref

433259

CO₂ + Temp Room Sensor*

HVAC temperature and carbon dioxide room sensor for ventilation control of residential areas, office areas and classrooms. Used with Sentinel in Proportional control mode. Sensor will monitor both CO₂ and temperature levels between the set points, the air extraction rate following the higher of the 2 outputs.



24V DC SELV. 0 - 2000ppm CO₂ working range. 0 - 50°C working range. Auto-calibrating NDIR CO₂ absorption sensor. Thin film platinum temperature sensor for high accuracy. Dimensions:100 x 84 x 25mm (H x W x D).

Stock Ref

433257

Remote Fan Status Indicator*

This remote display unit will indicate the running status and condition of the fan or fans. Can be used in all Sentinel operating modes for fan mounting.



24V DC SELV. Directly connects into the SCU. Used for single and twin fan mounting. Ambient operating temperature -5°C to +50°C. Dimensions:86 x 86 x 28mm (H x W x D).

Stock Ref

433816

Constant Pressure System Accessories PIR Grille*

PIR grille is on extract grille with an integral flap damper. Suitable for bathrooms and WC's. The PIR function fully opens the damper when a person is detected. The opening time is fixed at 20 mins. Spigot size is 125mm.



12V AC SELV unit using the main transformer unit supplied. Integral PIR person presence sensor controlling damper. Auto-humidity control damper response at all times. 100° viewing angle. Temperature range 0 - 50°C .Size: 158 x 150 x 35mm (H x W x D). MAX airflow 70m³/hr @100 Pa.

Stock Ref

434184

Dampers*

Two types available:

- MM type - Opens from a Closed / Minimum Flow position to a Fully Open / Maximum Flow position controlled by switching sensors.
- PC type - opening proportionally when controlled by sensors.



Duct sizes available: 100, 125, 150, 200, 250 and 315. Industry standard actuators.

Typical ordering designation: DVD size MM or PC

Power Supply*

For those situations where a separate 24V DC SELV supply source is required. 24W output capacity. See Fitting & Wiring instructions for connection details.

Stock Ref

433193

