ES-Thermostat
Installation Guide

CE
The EMC Directive 2004/108/EC
The Low Voltage directive 2006/95/EC

IMPORTANT! Please refer to the installation instructions of the fan to check the compatibility of this sensor.

Parts check list:

- ES-Thermostat
- 1 off 10 metre length of plugged SELV cable

ES-Thermostat

Designed to be compatible with the Ecosmart system, this thermostat unit is supplied with a pre-plugged, 10 metre length of communications cable. Note: longer lengths are available if required.

The sensor operates with Safe Extra Low Voltage (SELV) with power supplied from the fan unit via the communications cable. The ES-Thermostat will enable the fan when the ambient temperature is 1°C above the set point and will stop the fan when the temperature is at or below set point.

Fault indication

The LED will change from green to red if any fan connected in that zone has failed.

Multiple Sensors

Multiple sensors can be connected to the network. Please refer to the actual fan installation instructions for exact quantities.

Installing the Sensor

The sensor unit should be installed away from any direct source of heat (e.g. radiators) and areas where it would be subjected to waterspray.

The Sensor is supplied complete with 10 metres of connecting cable with plugs attached. Sensors are also supplied with all fixings and are clipped into a backplate wall mounting bracket.

a) Fix one end of the 10m cable to the fans customer connection box (connection sockets marked NET).

b) Select a suitable location for the sensor and arrange the cable in position. Leave approx. 75mm of the cable free at the mounting point to ease the connection of the plug. (fig. 1).

c) Carefully separate the sensor from the backplate using a small screwdriver (see Fig 2) Note: the sensor will remain connected by its internal cable.

d) Release this cable from the bracket by simply pulling the plug off the socket pins in the backplate.

e) Before fixing the backplate to the wall, connect the wall fixed cable end plug to the upper set of pins on the bracket (fig 3) Note: check the colour code matching on when fitting the plug onto the pins. Arrange the cable to lay in the cable slot at the top of the backplate moulding and fix the bracket to the wall surface using the screws supplied.

f) The sensor plug can now be connected into the backplate Note: check the colour code matching when fitting the plug onto the pins.

Clip the sensor body in the backplate arms and adjust the sensor body to the desired position.

Data cable installation

A 4-core SELV data cable is used to connect devices.

Do not run data cable in the same conduit as the mains cables and ensure there is a 50mm separation between the data cable and other cables. The maximum cable run between any two devices is 300m when it is installed in accordance with the instructions.

Please note that the total data cable length used in any system must be less than 1000m. Keep the number of cable joints to a minimum to ensure the best data transmission efficiency between devices.

Adjusting the sensor set points
Adjustable temperature setting 10 - 35°C.
Assuming the sensor(s) are installed, adjustment of the set points achieved by tilting the sensor forwards which exposes the adjustment aperture (see fig 5).

Using a small screwdriver, gently turn the dial either clockwise or anti-clockwise to increase or decrease the set point.

When adjustments are made to the sensor, the LED light on the sensor front will flash on and off to show the set point. First, green flashes will indicate the set point in TENS, then red flashes will indicate UNITS. For example two green flashes and three red flashes show a temperature set point of 23°C.
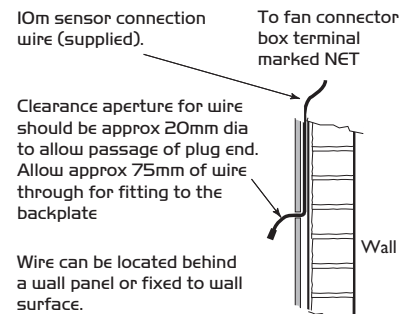
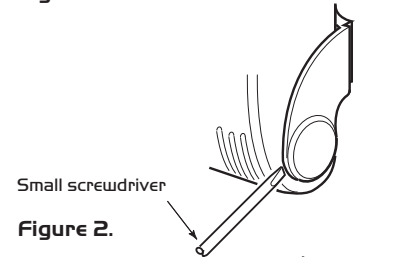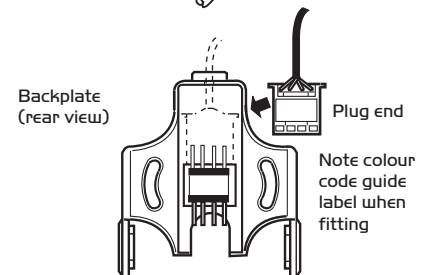10m sensor connection wire (supplied).

To fan connector box terminal marked NET

Clearance aperture for wire should be approx 20mm dia to allow passage of plug end. Allow approx 75mm of wire through for fitting to the backplate

Wire can be located behind a wall panel or fixed to wall surface.

Wall

Figure 1.

Small screwdriver

Figure 2.

Backplate (rear view)

Plug end

Note colour code guide label when fitting

Figure 3.

Fixing screws supplied

Figure 4.

Before fixing the backplate to the wall, fit the plug end from sensor body into the backplate.
Note that colour coded connections are matching Sensor can now clip onto backplate
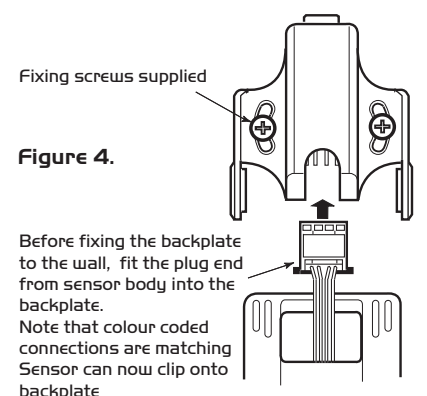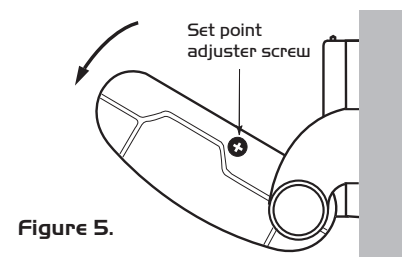
Set point adjuster screw

Figure 5.

Maintenance

The unit does not require any maintenance. However, for optimum performance, it is advisable to remove any accumulated dust with a low power vacuum cleaner.

NOTE: Installation and Maintenance of the equipment must be as directed in the instructions provided with the unit.

Warranty

The 5 year warranty starts from the day of delivery and includes parts and labour for the first year.
The remaining 4 years covers replacement parts only.
This warranty is conditional on planned maintenance being undertaken.

Service Enquiries

Nuaire can assist you in all aspects of service. Our Technical Support department will be happy to provide any assistance required.

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