

5. Functions (continued)

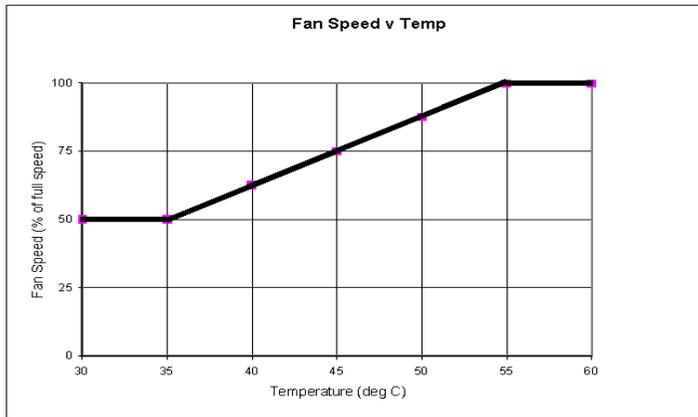
Control

During operation the fans will run at a speed determined by the temperature on the thermistor probe as shown below.

If any fan should fail, during service, the speed of the remaining fans will increase to full speed and the alarm system will change state.

If the thermistor probe should fail, either open circuit or short circuit, the speed of the fans will increase to full speed and the alarm system will change state.

If the air temperature sensed by the thermistor probe reaches 71°C then the alarm system will change state but revert to normal when the temperature falls below 69°C.



6. Service

The Fan Tray contains no user serviceable parts.

Any component part replacement must be carried out by a competent person.



Intelligent Fan Tray

The RS Pro *Intelligent Fan Tray* monitors the prevailing rack conditions and adjusts the fan speed accordingly reducing noise, power consumption and wear and tear if full performance is not required. In addition to monitoring the rack conditions the Verotec *Intelligent Fan Tray* also monitors its own components and in the case of a fault will adjust the fan speed to compensate until the fault is removed.

Installation instructions for the 19" fan tray 28-4000193/28-4000610

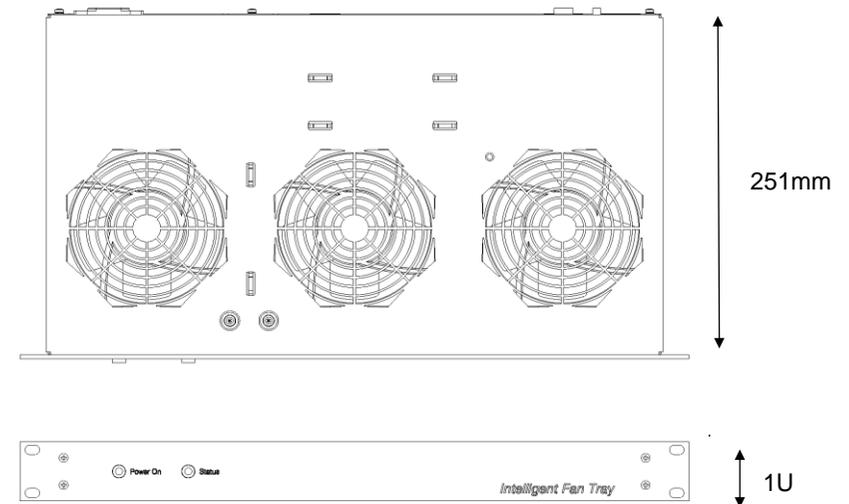
Contents

- | | | |
|---------------|-----------------------------|--------------|
| 1. Mechanical | 3. Installation & operation | 5. Functions |
| 2. Power | 4. Indicators & connections | 6. Service |

1. Mechanical

The fan tray is designed to fit and operate within a 19" rack to the IEC 60297 standard.

The fan tray occupies a 1u (44.45) space and requires sufficient space at the rear for the power connection. The fan tray weighs 2.3kg.



2. Power

Power Supply requirements are:

Input voltage: 100-240V ± 10% 47-63Hz Current: 0.36-0.14A

The internal power supply is protected with a 1.6A(T) HBC fuse rated for 250V working. For continued protection from the risk of fire this fuse must only be replaced with a fuse of the same type and rating. The incoming supply must be protected with a 3A fuse or circuit breaker

3.

Installation & operation

The fan tray is only suitable for operation installed in an equipment rack to the 19" standard (IEC 60297). The fan tray weighs 2.3kg.

The fan tray is only rated for operation in an environment working up to 70°C. The thermostat probe will operate at a temperature of 75°C.

The fan tray must be earthed and provision for this is made via the power inlet to which an earthed supply must be connected.

Isolation of the fan tray from the mains supply must be made elsewhere.

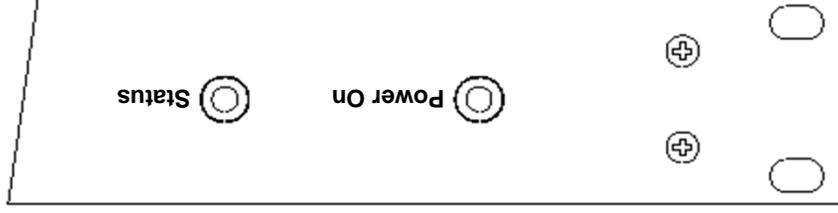
The fan tray should be secured to the rack through the fixing slots provided using fasteners appropriate to the rack design.

Connections to the alarm system are intended for internal monitoring within the rack, but if external should be limited to 30m.

For correct operation the fan tray must have a thermostat probe connected.

The probe should be located in a suitable position in the rack to monitor the resultant air temperature.

4. Indicators & connections



Indicators:

Status - Green = OK, Red = Fault
Power On - Yellow

4.

Indicators & connections

The probe should be located in a suitable position in the rack to monitor the resultant air temperature.

For correct operation the fan tray must have a thermostat probe connected.

Connections to the alarm system are intended for internal monitoring within the rack, but if external should be limited to 30m.

The fan tray must be earthed and provision for this is made via the power inlet to which an earthed supply must be connected.

Isolation of the fan tray from the mains supply must be made elsewhere.

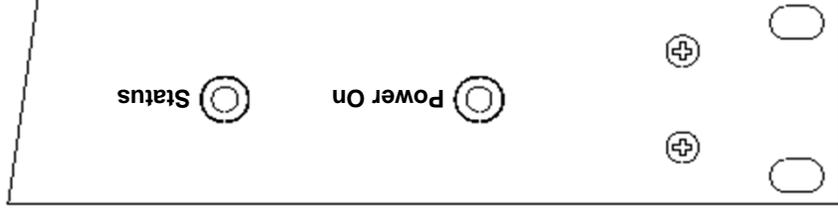
The fan tray should be secured to the rack through the fixing slots provided using fasteners appropriate to the rack design.

Connections to the alarm system are intended for internal monitoring within the rack, but if external should be limited to 30m.

For correct operation the fan tray must have a thermostat probe connected.

The probe should be located in a suitable position in the rack to monitor the resultant air temperature.

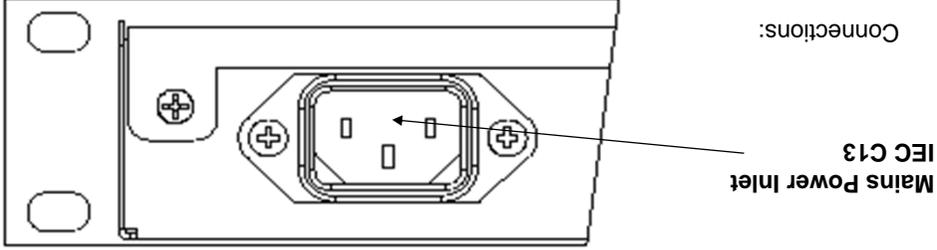
4. Indicators & connections



Indicators:

Status - Green = OK, Red = Fault
Power On - Yellow

Connections:



IEC C13
Mains Power Inlet

5.

Functions:

Alarms

During operation:

If any fan should fail, during service, the alarm system will change state. If the thermostat probe should fail, either open circuit or short circuit, the alarm system will change state.

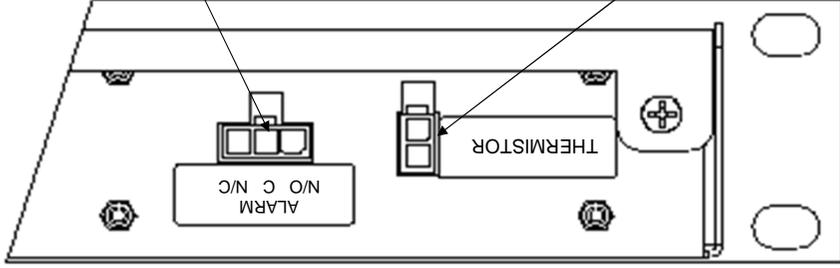
If the air temperature sensed by the thermostat probe reaches 71°C then the alarm system will change state. An alarm is indicated by the Status LED

and the volt free changeover contacts changing state. The alarm state will automatically reset on removal of the fault condition or on reduction of the temperature of the probe to 69°C.

If there is a loss of power to the monitor pcb the alarm contacts will change state accordingly. The power is monitored at the monitor pcb, power loss indication does not necessarily indicate loss of mains power.

Thermostat Input
(a thermostat probe must be connected for correct operation)

Alarm Connections
(shown under normal operating condition)



Mating Molex MiniFit Jr. Connectors Supplied with the Thermostat Probe & Loose with Molex type 5556 18-24awg socket contacts (Molex Part No 39-00-0039) for the Alarm Connections.