DTS-002
Digital Temperature Sensor

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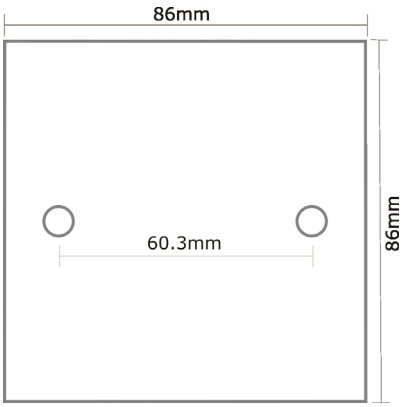
The High Resolution Temperature Sensing module provides a means of accurately measuring ambient air temperatures either for monitoring or control purposes. As with other IDRATEK modules a range of 'Reflex' functions is provided to allow control of other network devices based on temperature conditions.



Internal Sensor Specifications[1]

- Sensor range: Beyond module operating limits
- Resolution: 0.03125°C
- Accuracy: +/- 0.5°C over module range
- Internal sensor sampling period: ~4 seconds

Functional

- Temperature value can be interrogated at any time
- Five independent event triggers:
  - Temperature equals or exceeds user defined 'High' limit
  - Temperature equals or falls below user defined 'Low' limit
  - Temperature difference exceeds user defined 'Delta' limit (auto-datuming)
  - Time interval trigger (ranges: 1-127 seconds/1– 127 minutes)
  - Module Initialise trigger
- User defined trigger enabling pattern
- Each event trigger can generate a pre-defined response and/or several user programmable responses.
- Status indicator LED
- In-situ reprogrammable firmware

Electrical

- Operating voltage 12-15V DC
- Current consumption 8mA (nominal)

Environmental

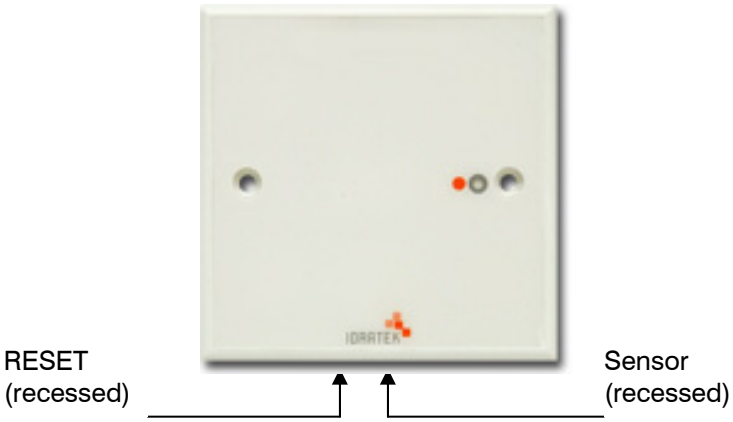
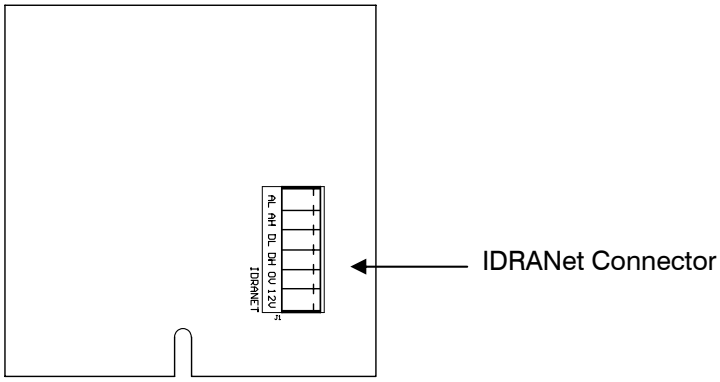
- Operating temperature –10°C to +45°C
- Operating humidity 5% to 95% (non-condensing)

Mechanical

- Designed to fit UK standard 35mm deep electrical pattress
- 60.3mm fixing centres using standard M3.5 screws

[1] Manufacturers Data Sheet

Interfaces (front)



Interfaces (rear)