Temperature Extremes Sensor

What is a Temperature Extremes Sensor?

The temperature extremes sensor provides advanced alerts of extreme household temperatures which could lead to unhealthy living conditions. It also provides advanced warning of fire hazards as, unlike smoke detectors, it can be sited in potentially smoky environments such as kitchens.

The sensor can also raise an alert when the room temperature falls to levels that could result in burst pipes or the risk of hypothermia.

How does it work?

The temperature extremes sensor provides early warning of potentially hazardous temperatures. It is designed to detect three specific temperature situations; high, low and rapid rate of rise in order to raise specific alerts allowing appropriate action to be taken.

- The high temperature alarm will be raised if temperatures reach 35℃ and above for more than 40 seconds.

- The low temperature alarm will be raised if the temperature falls to 2℃ or less for at least 10 minutes.

- The alarm will also activate if the temperature in the room rises by 1℃ per minute over a 30 minute period or 3℃ over a five minute period.

Why is it needed?

This sensor is a unique solution for the remote monitoring of unhealthy or unsafe environmental temperatures in order to help enable independent living.

Who is it for?

The temperature extremes sensor will help people who may not notice changes in temperature and would benefit from reminders to maintain the heating in their property or to make sure they do not become over heated and dehydrated. It can also help to minimise risks associated with smoking, when a cigarette is left burning, causing heat rather than smoke if furniture is smouldering.

Considerations

The 'low heat' setting could be too low to protect the person from getting cold, especially if they do not recognise that the temperature is slowly dropping.

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