

Extreme Temperature Sensor Technical /User Guide



Read first: Safety information



Always read and follow the safety information accompanied by this symbol.

Always test the system according to the instructions before use and always test the product after adjustments have been made.

The device is not always suitable for all users and should not be seen as a substitute for the caregiver's support.

The device is NOT intended for life-sustaining equipment, where any technical failure may result in serious injury or death.

Check the unit regularly and replace if necessary.

Users should pay particular attention to the potential for interference from other systems operating in the same or adjacent radio frequency bands.

The compartment covers may be opened only by authorised persons.

Battery replacement may be performed only by authorised persons. Only use recommended battery type as stated in the technical data section.



CAUTION

Only use batteries and accessories that have been approved for use with this particular model. Connecting other battery types may be dangerous and may invalidate the type of approval and guarantee.

General information

The Careium Extreme Temperature Sensor detects extremes of temperature and alert potential serious issues. The sensor will automatically raise an alarm via the social alarm unit if the temperature is too hot (35°C), too cold (12°C) or a rapid rate of rise in temperatures in the house, for example if the heating breaks down in winter.

Why temperature is important

Low Temp - It's easy not to notice a gradual drop in room temperature, particularly during the winter months. Cold is felt less as you get older and your ability to control and regulate body temperature is reduced. This makes you more susceptible to the cold and with any long-term health conditions, and you therefore may be put at risk of hypothermia.

High Temp or Rapid Rate of Rise - Equally important is being aware of a sudden rise in temperature. If there is high temperature outside in the summer and inadequate ventilation, this can lead to dehydration for the occupant and also to damp and mold situations.

How it works

If activated, the temperature extreme sensor sends an alarm via the pendant alarm to Careium. Advice would be, check for: pans on in the kitchen, heating appliances to make sure they haven't broken down, door hasn't been left open causing their home to become too cold.

How/where to install

Temperature extreme sensor can be located in smoke enriched environments, i.e., kitchen, without raising false alarms. It's typically installed on the ceiling or wall in the kitchen to protect people/property against extremes of temperature.

Install the sensor using the 3M adhesive backed pad provided, fix to the rear of the plastic housing and then to the wall or ceiling.

Settings

The temperature extreme sensor has 3 different alarm thresholds/events: -

1) Low temperature - 12 C

2) High temperature - 35 C

3) Temperature rate of rise of: -

o 1C in one minute over 30 min -if temperature goes up 30C in 30m, it's a strong indication something isn't right

o 3C in one minute over 5 min -if temperature goes up 15C in 5 m, it's a strong indication something isn't right



Preparations

- 1) Disassemble the device.
- 2) Insert the included CR2032 coin cell battery with "+" pointing up.
- 3) Reassemble the device.

Pairing

In this device we have integrated a radio transceiver to communicate wirelessly between device and alarm base unit. In order for the device to send alarms through the base unit, you need to pair them. It's possible that Careium may already have paired the device with the base unit prior to sending so be sure to check this, if the case you may have to only test the device which is detailed in section below.

How to pair the Extreme Temperature Sensor with the base unit for the first time

1. Press and hold the button with green square  for 4 seconds and release when an audible signal is played and the Power indicator  starts to blink.
2. Activate the extreme temperature sensor by pressing the test button on the side to activate an alarm. When base unit receives the radio signal an audible signal is played.
3. Confirm the pairing by pressing and releasing the red integral alarm button once on base unit. The successful pairing is confirmed with an audible signal.
4. The radio trigger is now paired. The alarm type can be changed anytime using the optional i-care® online service.

How to test the alarm after pairing


On the Extreme temp, press the test button to generate an alarm. Check that the alarm is received at Careium.

Note! The radio transceiver is blocked for further alarms for 10 seconds after an alarm is generated.

Test Button



Technical data

| | |
|------------------------|---|
| Dimensions | 50 x 50 x 17 mm |
| Power supply | 3V Lithium battery, replaceable (CR2032) |
| Battery lifetime | Up to 3 years |
| Radio frequency | 869.2125 MHz |
| Radio max output power | 10 mW (10 dBm) |
| Equipment class | Class 1 radio equipment  |

Environment

This product is intended for indoor use in a normal residential environment

| | |
|----------------------------|--|
| Temperature | Operating temperature +10° to +40°C |
| Humidity | 10% to 90% relative humidity (non-condensed) |
| Environmental class | 1 |

Legal notices

The information contained here is subject to change without notice. The only warranties for Careium products and services are set forth in the express warranty statements accompanying such products and services.

Nothing herein should be construed as constituting an additional warranty.

Careium shall not be liable for technical or editorial errors or omissions contained herein.

Declaration of Conformity

Hereby Careium Sweden AB, declares that the radio equipment type, social alarm, is in compliance with Directives: 1999/05/EC or 2014/53/EU and 2011/65/EU. The full text of the EU declaration of conformity is available at the following internet address: <https://www.careium.com/en-gb/dofc/>

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