CAIR

Smart Technology, Made to Care

Climate
Temperature & Humidity Sensor
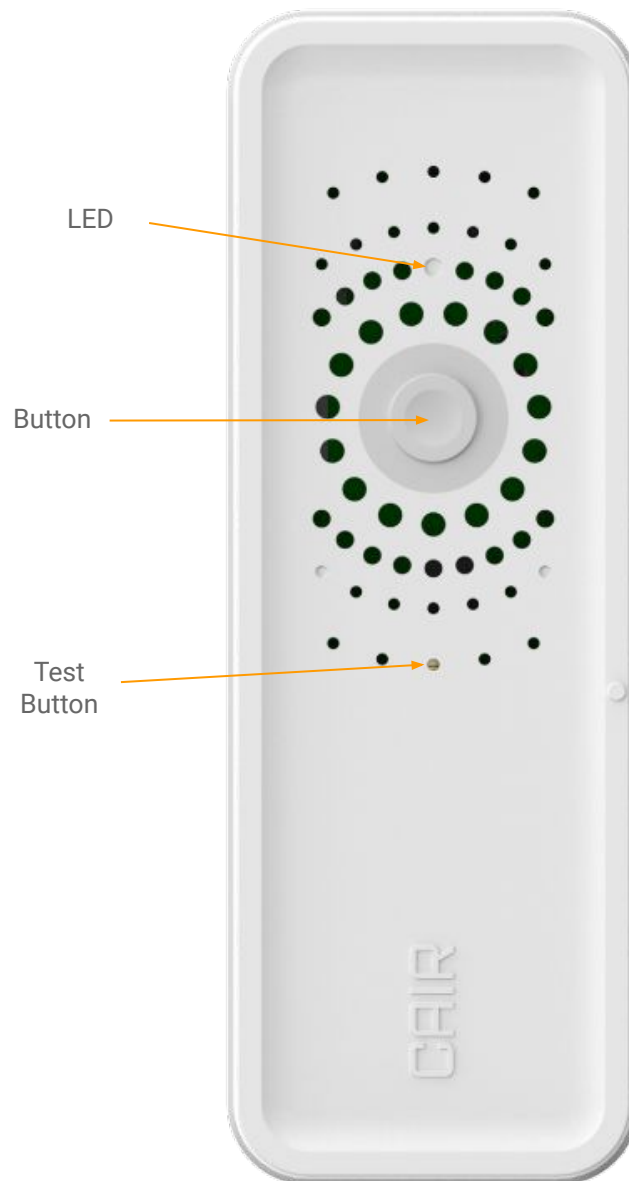
The Cair Climate is a combined temperature and humidity sensor all in one, small, discreet device.

This clever sensor can detect high and low temperatures, a fast rise in temperature, and high and low humidity levels. There are 8 different temperature thresholds for each option, which are programmed using the on-board button.
The Climate can help maintain a healthy temperature within the home, and the humidity detection also assists with monitoring the environment for those living with long term conditions such as COPD.

LED

Button

Test Button

Introduction

The Cair Climate is a combined temperature and humidity sensor all in one, small, discreet device.

This clever sensor can detect high and low temperatures, a fast rise in temperature, and high and low humidity levels. There are 8 different temperature thresholds for each option, which are programmed using the on-board button.

Cair Climate helps maintain a healthy temperature within the home, and the humidity detection assists with monitoring the environment for those living with long term conditions such as COPD.

How the Climate Works

The Cair Climate detects high, low, and a fast rise in temperature. It also detects high and low levels of humidity.

A reading for all functions is taken every minute. If the high temperature, high humidity or low humidity thresholds levels are exceeded, the Climate will send a radio message immediately. For the low temperature threshold level, there is a 5 minute delay before a radio message is sent.

Temperature Rise is based on a 3 minute cycle. If the temperature rises by the chosen value (2 - 9°C) within 3 minutes, then a radio message will be sent.

The on-board button and LED are used to switch the Climate on and off, and to program the settings. When in use, the button can be locked to ensure that programmed settings are not inadvertently changed. A hidden test button is also provided to allow easy pairing with a receiving device.

Installation

The Cair Climate can be placed anywhere in the home, taking into account the following considerations:

- To avoid false alarms, it should be positioned away from direct sunlight, doorways, windows and other sources of ventilation.
- The Climate is not water resistant so avoid any contact with water, or areas with excessive condensation.
- It can be installed at any height, although between 1m - 1.5m from the floor is recommended for most applications.
- Two versions of mounting option are available - adhesive mount and screw mount.

Please read the instructions in this guide before attempting to program the Climate.

Follow the instructions below to switch the Climate on/off, to lock/unlock the button and to program.
Important: When pressing the button multiple times, ensure each button press is accompanied with a flash of the LED.

Switching the Climate On

1. To switch the Climate on, press and hold the button for 10 seconds until the amber LED extinguishes.
2. Release the button. The LED will flash green four times and the Climate will switch on.
3. To check it is now on, press the button twice. The red LED will flash briefly when the button is pressed and will then illuminate red for two seconds to indicate that it's on.

Switching the Climate Off

1. To switch the Climate off, press and hold the button for 10 seconds until the amber LED extinguishes.
2. Release the button. The LED will flash red four times and the Climate will switch off.
3. To check it is now off, press the button twice. The red LED will flash briefly when the button is pressed but no other flashes will occur.

Unlocking the Button

Important: The Climate has to be switched on and the button unlocked to enable access to the programming menu.
1. Press the button twice. When the LED illuminates red, press and hold the button for five seconds until the amber LED extinguishes.
2. Release the button. The LED will flash green 3 times to indicate that the button is now unlocked.
3. To check it is now unlocked, press the button twice - the red LED will flash briefly when the button is pressed then will illuminate green for two seconds to indicate that the button is now unlocked. The Climate can now be programmed.

Locking the Button

The button can be locked to prevent users inadvertently accessing the programming menu.
1. Press the button twice. When the LED illuminates green, press and hold the button for five seconds until the amber LED extinguishes.
2. Release the button. The LED will flash red 3 times to indicate that the button is now locked.
3. To check it is now locked, press the button twice - the red LED will flash briefly when the button is pressed then will illuminate red for two seconds to indicate that the button is now locked. The Climate can now be installed.

Programming the Temperature/Humidity Thresholds

Ensure the Climate is switched on and the button unlocked. To program, please read the instructions below.

1. Enter the programming menu for the option you would like to set. All you have to do is press and release the button 4-8 times (ensuring the red LED illuminates with each press) to match the options below:
   - 4 Presses for High Temperature
   - 5 Presses for Low Temperature
   - 6 Presses for Rate of Rise
   - 7 Presses for High Humidity
   - 8 Presses for Low Humidity
2. The green LED will flash rapidly to indicate the programming menu is being entered.

Number of Presses/ Flashes	1	2	3	4	5	6	7	(Default) 8	Option
Temperature Threshold Levels									
4	22°C	24°C	32°C	34°C	36°C	38°C	40°C	42°C	**High Temperature**
5	16°C	14°C	12°C	10°C	8°C	6°C	4°C	2°C	**Low Temperature**
6	2°C	3°C	4°C	5°C	6°C	7°C	8°C	9°C	**Rate of Rise**
Humidity Threshold Levels									
7	60%	65%	70%	75%	80%	85%	90%	95%	**High Humidity**
8	40%	35%	30%	25%	20%	15%	10%	5%	**Low Humidity**

3. The amber LED will flash a number of times to indicate the existing threshold level (if this doesn't happen and red rapid flashes are seen instead, the option is disabled. Go to the Enabling a Temperature/Humidity Option section on page 4)
4. The green LED will illuminate for 5 seconds. This is an invitation to input a new setting. Press the button 1-8 times to input the new threshold level (see adjacent table), i.e. Press once for level 1, twice for level 2, etc. The LED will flash every time the button is pressed. Note: If the button isn't pressed while the green LED is illuminated, the red LED will flash rapidly and the Climate will exit the programming menu, and the previous setting will be retained.
5. Shortly after the last button press, the amber LED will flash to confirm the new threshold level.
6. The red LED will then flash rapidly and the Climate will leave the programming menu.
7. Repeat steps 1-6 if more programming is required. Remember to lock the button when finished.

Note 1: If the button is pressed more than 8 times at step 4, the red LED will illuminate for 2 seconds, the Climate will exit the programming menu and the previous setting will be retained.
Note 2: Once programming is completed, it would be good practice to go through each option again to ensure the correct settings are programmed.
Note 3: Default levels on all options are set to No.8

Checking the status of the Climate

To check the status of the Climate, simply press the button twice:
- If no solid LED appears, the Climate is Off
- If a red solid LED appears, the Climate is On with the button locked
- If a green solid LED appears, the Climate is On with the button unlocked

Note: To access the options below, ensure the Climate is On and the button is unlocked.

Disabling a Temperature/Humidity Option

1. Press the button 4-8 times to match the number of the option you would like to disable.
2. Allow the Climate to flow through the programming menu.
3. At the end of the menu, while the red LED is flashing rapidly, press and hold the button. The amber LED will illuminate. Release the button when the amber LED extinguishes after 2 seconds.
4. The red LED will illuminate for 2 seconds to confirm that the option is now disabled.
5. The option is now disabled. To check this, press the button 4-8 times again, the LED will rapidly flash green then rapidly flash red immediately afterwards.

Enabling a Temperature/Humidity Option

Important: Please note this only has to be done if the option has been disabled.
1. Press the button 4-8 times to match the number of the option you would like to enable.
2. While the red LED is flashing rapidly, press and hold the button. The amber LED will illuminate. Release the button when the amber LED extinguishes after 2 seconds
3. The green LED will illuminate for 2 seconds to confirm that the option is now enabled.
4. The option is now enabled. To check this, press the button 4-8 times again, the LED will rapidly flash green then will enter the programming menu as explained on page 3 (step 3 onwards)

Sending a Radio Message

There are two ways to send a radio message:

Method 1
1. This method can be used at any time - when the Climate is on, off, button unlocked or locked.
2. Using a safety pin, or similar fine instrument, press the Test Button **(see diagram on page 2)** 4-8 times to match the number of the option you would like to send. Ensure the red LED flashes with every press.
3. Shortly after the last press, the green LED will illuminate and the Climate will send the radio message.

Method 2
1. This method can only be used when the Climate is switched on and the button is unlocked **(see instructions on page 3)**.
2. Press the button 4-8 times to match the number of the option you would like to send.
3. While the LED is rapidly flashing green, press and hold the button. The amber LED will illuminate. Release the button when the amber LED extinguishes after 2 seconds. The radio message will be sent when the button is released.

Note: Please read the notes in the section below before assigning the Climate.

Assigning the Climate to a Notifier, Lifeline or other telecare system

1. Program the Climate as explained on pages 3 & 4.
2. Prepare the Notifier/ Lifeline/ other system by entering registration mode.
3. Send a radio message by following the instructions above (read the notes below too).
4. The Notifier/ Lifeline/ other system should acknowledge the new device.

Note 1: As with similar devices, the temperature options (4 -6) are assigned to Tunstall devices together, e.g. Assigning option 4 will also assign temperature options 5 and 6, and vice versa. The same applies to the humidity options, e.g. Assigning option 7 will also assign humidity option 8, and vice versa.

Note 2: The Radio IDs for the humidity options are +200 digits more than the IDs for the temperature options, e.g. an ID for 123456 for the temperature options will mean an ID of 123656 for the humidity IDs.

Note 3: The humidity options will assign as ROM#4 (Event 3 (high) & Event 1 (low)). As there are no humidity options on ARC software, these can be manually altered at the ARC to display Humidity High and Low.

Reset to Defaults

If the Climate has been used previously, it would be good practice to default the unit to factory settings.
1. Ensure the Climate is switched on (press the button twice, if the green or red LED illuminates, the Climate is on).
2. Press the button 15 times. The amber LED will illuminate for 2 seconds shortly after the 15th press
3. While the amber LED is illuminated, press and hold the button for 10 seconds until the alternating green/red LED flashes rapidly, then release the button.
4. The Climate will now reset to default settings (see table on page 3), and will switch off. Remember to switch the Climate back on if using afterwards.

Climate Quick Guide

Once you've read the full guide and are familiar with the Climate, this handy page contains everything you need.

Checking the status of the Climate
To check the status of the Climate, simply press the button twice:
- If no solid LED appears, the Climate is Off.
- If a red solid LED appears, the Climate is On with the button locked.
- If a green solid LED appears, the Climate is On with the button unlocked.

Switching On
1. Press and hold the button for 10 seconds until the amber LED extinguishes.
2. Release the button. The LED will flash green four times and the Climate will switch on.
3. To check it is now on, press the button twice. The red LED will flash briefly when the button is pressed and will then illuminate red for two seconds to indicate that it's on.

Switching Off
1. Press and hold the button for 10 seconds until the amber LED extinguishes.
2. Release the button. The LED will flash red four times and the Climate will switch off.
3. To check it is now off, press the button twice. The red LED will flash briefly when the button is pressed but no other flashes will occur.

Unlocking the Button
1. Press the button twice. When the LED illuminates red, press and hold the button for five seconds until the amber LED extinguishes.
2. Release the button. The LED will flash green 3 times to indicate that the button is now unlocked.
3. To check it is now unlocked, press the button twice - the red LED will flash briefly when the button is pressed then will illuminate green for two seconds to indicate that the button is now unlocked. The Climate can now be programmed.

Locking the Button
1. Press the button twice. When the LED illuminates green, press and hold the button for five seconds until the amber LED extinguishes.
2. Release the button. The LED will flash red 3 times to indicate that the button is now locked.
3. To check it is now locked, press the button twice - the red LED will flash briefly when the button is pressed then will illuminate red for two seconds to indicate that the button is now locked.

Programming the Temperature/Humidity Thresholds
1. Press the button 4-8 times to access the programming menu for the option you would like to set.
2. The green LED will flash rapidly to indicate the programming menu is being entered.
3. The amber LED will flash a number of times to indicate the existing threshold level.
4. The green LED will illuminate for 5 seconds. Press the button 1-8 times to input the new threshold level.
5. Shortly after the last button press, the amber LED will flash to confirm the new threshold level.
6. The red LED will then flash rapidly and the Climate will leave the programming menu.
7. Repeat steps 1-6 if more programming is required.

Disabling an Option
1. Press the button 4-8 times to match the number of the option you would like to disable.
2. Allow the Climate to flow through the programming menu.
3. At the end of the menu, while the red LED is flashing rapidly, press and hold the button. Release the button when the amber LED extinguishes after 2 seconds.
4. The LED will illuminate red to indicate the option is now disabled.

Enabling an Option
1. Press the button 4-8 times to match the number of the option you would like to enable.
2. While the red LED is flashing rapidly, press and hold the button. The amber LED will illuminate. Release the button when the amber LED extinguishes after 2 seconds.
3. The LED will illuminate green to indicate the option is now enabled.

No.	1	2	3	4	5	6	7	(Def) 8	Option
Temperature Threshold Levels									
4	22	24	32	34	36	38	40	42	High Temp °C
5	16	14	12	10	8	6	4	2	Low Temp °C
6	2	3	4	5	6	7	8	9	Temp Rise °C
Humidity Threshold Levels									
7	60	65	70	75	80	85	90	95	High Hum %
8	40	35	30	25	20	15	10	5	Low Hum %

Sending a Radio Message
Method 1
1. Press the Test Button 4-8 times to match the number of the option you would like to send. Ensure the red LED flashes with every press.
2. Shortly after the last press, the green LED will illuminate and the Climate will send the radio message.

Method 2
1. Ensure the Climate is switched on and the button is unlocked. Press the button 4-8 times to match the number of the option you would like to send.
2. While the LED is rapidly flashing green, press and hold the button. The amber LED will illuminate. Release the button when the amber LED extinguishes after 2 seconds. The radio message will be sent when the button is released.

Reset to Defaults
1. Ensure the Climate is switched on (press button twice, red or green LED should illuminate for 2 seconds shortly afterwards).
2. Press the button 15 times. The amber LED will illuminate for 2 seconds shortly after the 15th press.
3. While the amber LED is illuminated, press and hold the button for 10 seconds until the alternating green/red LED flashes rapidly, then release the button.
4. The Climate will now reset to default settings, and will switch off. Remember to switch the Climate back on if using afterwards.

Specifications

Operating Frequency	869 MHz / Custom
Dimensions	Climate (Adhesive Mount) - L94 x W33 x D12.3mm Climate (Screw Mount) - L119 x W34 x D16mm
Battery	Replaceable CR2450 Coin Cell
Battery Life	3 years under the following conditions - 5 alarm transmissions per day
Auto Low Battery	Battery tested daily
Mounting Options	Two versions available. Adhesive Mount and Screw Mount
Wireless Range	600m line of sight
Operating Temp.	-10°C to +55°C
Compliance	CE / RoHS 2 / RED
Warranty	24 months

Battery Replacement

Under normal usage, the battery should last around 3 years. The battery can be accessed by unscrewing the six screws on the rear of the Climate. One CR2450 Coin Cell battery should be used to ensure maximum battery life. It is important that the battery is inserted correctly. Please note the polarity markings. Once the battery has been replaced, ensure the programmed settings are still correct.

Packing for shipment

The equipment containing cells or batteries must be packed in strong rigid packaging and must be secured against movement within the outer packaging to prevent accidental activation. The sender's name and return address must be clearly visible on the outer packaging.

Safety

Do not dismantle or alter the unit. Do not open the case, unless replacing battery.

Disposal

All electronic waste should be disposed of in accordance with the latest legislation.
It must be disposed of within the electrical and electronic waste stream and not be disposed of in the normal waste stream. Recycling electrical waste products help to conserve natural resources and prevent adverse effects on the environment.
Contact your supplier should you require more information.

Declaration of Conformity:

Hereby, Cair (UK) Ltd declares that the radio equipment type, Cair Climate is in compliance with Directive 2014/53/EU