

CE105 Thermometer Operating Instructions

Congratulate on your selection of this CE105 thermometer. The CE105 thermometer is a non-contact infrared thermometer with timekeeping function.

Temperature mode:



Clock mode:



'Meas.' Button (A) "Mode" (B)

- By pressing 'Meas.' Button (A), directly enters the Temp function.
- By left idle for more than 15sec, directly enters the Time function.

TIME KEEPING MODE

Firstly setting the Time with the following instructions.

- By pressing (A) → (B) → (B) → (B) and the time digits start to flash, which means you can reset the time now.
- Now press (B) to change the hour and can see the hour digits start to flash. Then press (A) to see the hour digits start to adjust.
- Now press (B) → (B) to change the minute, and can see the minute digits start to flash, then press (A) to see the minute digits start to adjust.
- By left idle for more than 15sec, directly enters the Time function.

TEMP MEASURE MODE

CE105 uses a sensor (C) built to measure the surface temperature of an object.

°C / °F Measurement Unit Conversion

In Timekeeping Mode	In Temp Measure Mode
By pressing (A) → (B) → (B) → (B) and the °C digits start to flash, which means you can convert the measurement unit now. Now press (A) to change the measurement unit from °C to °F.	By pressing (B) → (B) → (B) and the °C digits start to flash, which means you can convert the measurement unit now. Now press (A) to change the measurement unit from °C to °F.

Measure Temperature

The factory default emissivity setting is 0.95, because this is the most common emissivity for object in daily life except metals. Please get a 3M tape on the metal before the measurement.

Simply aim the CE105 at the measure target with (C) and press (A) and you will get the temperature.

If you want to know the minimum temperature in this time test .you can press (B) the LCD will display the minimum temperature and the "min" flag will flash.

If you want to know the maximum temperature in this time test .you can press (B) → (B) the LCD will display the maximum temperature and the "max" flag will flash.

If you want to exit the "min" or "max" flash mode. you can press (A) the device will enter into temp measure mode.

LCD ERROR MESSAGES

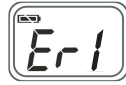
CE105 incorporates visual diagnostic messages as follows:



'Hi' or 'Lo' is displayed when the temperature being measured is outside of the range of the instrument, 'Hi' when higher than +220 °C (428 °F) and 'Lo' when lower than -33 °C (-27 °F).



'Er2' is displayed when the CE105 is exposed to rapid changes in the ambient temperature. 'Er1' is displayed when the ambient temperature of the CE105 exceeds 0 °C (32 °F) OR +50 °C (122 °F). In both cases you should allow plenty of time (minimum 30 minutes) for the CE105 to stabilize to the working.



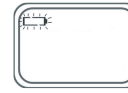
For all other error messages it is necessary to reset the CE105. To reset the CE105, turn the instrument off, remove the battery and wait for a minimum of one minute, reinsert the battery and turn on. If the error message remains please contact the Service Department for further assistance.

BATTERIES

The CE105 incorporates visual low battery indication as follows:



'Battery OK': measurements are possible



'Battery Exhausted': measurements are not possible

BATTERY REPLACEMENT

When the 'Low Battery' icon indicates the battery is low, the battery should be replaced immediately with a CR2032 lithium cell. The battery is located under the twist cover at the rear of the CE105.

- Open the battery cover with a coin.
- Use pointed object such as a plastic toothpick to pry battery and insert new battery into battery compartment, but you must note the battery "+" to up flay.
- Put the battery cover back and make sure the lock hole is closely meet. If they cannot closely meet, please change the aspect and try again.
- Close the battery cover with a coin until it snaps in place.

Please note: It is important to let the CE105 left idle for more than 15sec and enters the Time function before replacing the battery otherwise the CE105 may malfunction.

⚠ WARNING

- The Temp function is not intended for taking measurements that require for Live & Die decision or Safety related applications.
- The temperature reading of CE105 indicates only the surface temperature, and not the actual temperature of an object.
- Keep the unit dry and away from any liquids and direct sunlight or a very hot object. (Getting too close to a very hot object will create the risk of burn injury, please be careful.)
- Always make sure the probe lens is clean without any damage.
- Dispose of used battery promptly and keep away from children.

STORAGE & CLEANING

The sensor lens is the most delicate part of the CE105. The lens should be kept clean at all times, care should be taken when cleaning the lens using only a soft cloth or cotton swab with water or medical alcohol, allowing the lens to fully dry before using the CE105, do not submerge any part of the CE105. The CE105 should be stored at room temperature between +10 to +40 °C (50 to 104 °F).

SPECIFICATION

Range	-33 °C to +220°C (-27.4°F to +428°F)
Resolution	0.1°C
Response Time	1 second
Infrared Accuracy	±2.5% of reading or ±2.5°C which one is greater
Field of View (D:S)	1:1 optics ratio
Emissivity	0.95 fixed
Battery Life	40 hours continuous use
Battery	CR2032
Display	LCD
Dimensions	71(L) x 47(W) x 17(H) mm
Weight	26 grams including battery

GUARANTED

The CE105 is guaranteed for a period of one year from the date of purchase against mechanical and electrical manufacturing defects. There are no user serviceable parts inside the instrument. Any attempted repair by unauthorized persons voids the warranty.

