

SPECIFICATIONS

Range: -56.2 to 572°F (-49.9 to 299.9°C)

Resolution: 0.1° or 1° - user selectable

Accuracy: $\pm 0.72^\circ\text{F}$ (-58 to 392°F), $\pm 1.8^\circ\text{F}$ (392 to 572°F)
 $\pm 0.4^\circ\text{C}$ (-49.9 to 199.9°C), $\pm 1^\circ\text{C}$ (200 to 299.9°C)

Sensor Type: K thermocouple

Battery: 2 x 3 volt CR2032 lithium coin cell

Battery Life: 1500 hours

Display: 0.55" (14mm) LCD

Dimensions: 0.75" x 1.85" x 6.1" (19mm x 47mm x 153mm)

Weight: 0.21lb. (97g)

CALIBRATION		
Test Temperature	32°F (0°C)	212°F (100°C)
Instrument Indication		
Serial Number		
Calibrated by		Date

This ThermoWorks Thermapien has been checked or calibrated against reference instrument(s) calibrated by an UKAS accredited calibration laboratory. Traceable to NIST.

Made in the UK



ThermoWorks

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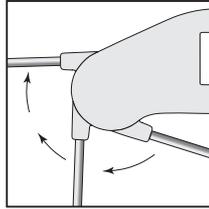


ThermoWorks

Pro Surface Thermapien™
Air Thermapien™

Operating Instructions

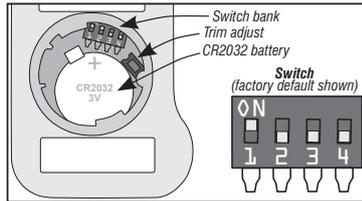
INSTRUMENT OPERATION - The instrument is switched on by unfolding the probe until the display shows the temperature. The unit is turned off by folding the probe back into the side of the unit. The probe should not be rotated more than 180 degrees as damage will occur. It is recommended to store the probe, in the closed position, when not in use.



Apply the tip of the probe to the substance, surface or area to be measured. The probe should be allowed adequate time to stabilize to the temperature of the item to be measured.

INSTRUMENT CONFIGURATION

This instrument has four user selectable slide switches (switch bank), adjustable with a paperclip, and a single push button 'Trim Adjust' which is located under the battery cover.



Switch 1 - Display Units - Changes display units between °F (factory default) and °C. To change to °C push the switch toward the batteries.

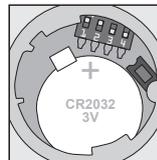
Switch 2 - Resolution - To change the resolution from 0.1°F (factory default) to 1°F push the switch away from the batteries.

Switch 3 - Auto-off - To disable the auto-off (factory default – 10 minutes) push the switch away from the batteries.

Switch 4 - Reading Trim - For normal use, we do not recommend using the 'Trim Adjust'. For further details visit www.thermoworks.com.

INSTRUMENT CLEANING - Clean the instrument regularly with an anti-microbial probe wipe or spray cleaner on a paper towel to avoid potential food-borne bacteria growth.

BATTERY REPLACEMENT A battery symbol  indicates that the batteries will need replacing. The instrument continues to measure accurately but we recommend that the batteries be changed as soon as possible. To replace



the batteries, remove the battery cover using a coin (U.S. nickel works best). Remove the batteries by pulling the battery retaining clip back while holding the unit upside down. Replace both batteries, positive side up, replace cover.

ERROR MESSAGES - 'Lo' will be displayed if you are measuring below the instrument's range. 'Hi' will be displayed if you are measuring above the instrument's range. 'Err' will be displayed if the probe develops a fault. If the error message remains, contact our service department for further assistance.

EMC/RFI - Instrument performance may be affected if operated within a high frequency radio field, such as near a mobile phone, or if subjected to an electrostatic shock.

GUARANTEE - This instrument carries a one-year warranty against defects in either components or workmanship. During this period, products that prove to be defective will, at the discretion of ThermoWorks, be either repaired or replaced without charge. This warranty does not apply to probes, where a six-month period is offered. The product warranty does not cover damage caused by fair wear and tear, abnormal storage conditions, incorrect use, accidental misuse, abuse, neglect, misapplication or modification. Full details of liability are available within ThermoWorks' Terms & Conditions of Sale at www.thermoworks.com. In line with our policy of continuous development, we reserve the right to amend our product specification without prior notice.

Recommendations for improving surface temperature measurements:

1. Surface readings may be affected by airflow, sensor contact with the surface being measured, the surface type, surface inconsistencies, and measuring area cleanliness.
2. Make sure that the flat bottom area of the probe tip maintains constant and flat contact with the surface being measured.
3. Apply firm pressure. Allow sufficient time for the reading to stabilize.
4. Clean surface before taking measurements.
5. Readings may be enhanced with a small amount of cooking oil to establish better thermal contact with the sensing area.
6. Surface temperatures may vary along hot surfaces. It is recommended to test in multiple locations.