



# 1:1 Compact Digital Infrared Thermometer OWNER'S MANUAL



## WARNING:

Read carefully and understand all **MACHINE ADJUSTMENT AND OPERATION INSTRUCTIONS** before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

Item# 44445

Thank you very much for choosing a **KLUTCH** product! For future reference, please complete the owner's record below:

Model: \_\_\_\_\_ Purchase Date: \_\_\_\_\_

Save the receipt, warranty and these instructions. It is important that you read the entire manual to become familiar with this product before you begin using it.

This machine is designed for certain applications only. The distributor cannot be responsible for issues arising from modification. We strongly recommend this machine not be modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, **DO NOT** use the machine until you have first contacted the distributor to determine if it can or should be performed on the product.

For technical questions please call **1-800-222-5381**.

## INTENDED USE

This Klutch Compact Digital Infrared Thermometer is an easy-to-use handheld temperature device that provide a simple, noncontact way to measure the temperature of hazardous, inaccessible or moving objects.

## TECHNICAL SPECIFICATIONS

Item	Description
Measurement Range	-4°F to 428°F (-20°C to 220°C)
Accuracy	± 4°F (±2°C) or 2% of the reading
Response Time	1 Sec
Field of View	1:1
Emissivity Range	0.95 default
Needed Batteries	One CR2032 Lithium cell battery

## IMPORTANT SAFETY CONSIDERATIONS

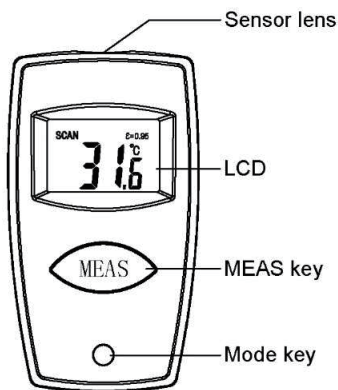
1. **Do not use for medical purposes.**
2. **Do not open the housing other than battery compartment.**
3. **Avoid direct Eye exposure.**
4. **Do not expose the tool to rain or wet conditions.**
5. **Stay alert, watch what you are doing and use common sense when operating the tool. Do not use while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention may result in serious personal injury.**
6. **Disconnect the battery before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of activating the Laser accidentally.**
7. **Maintain the tool. Check for misalignment or binding of parts, breakage of parts and any other condition that may affect the tool's operation. If damaged, have the tool repaired before use. Many accidents are caused by poorly maintained tools.**
8. **Use the tool in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the tool for operations different from those intended could result in a hazardous situation.**

9. **Have your tool serviced by a qualified repair person using only identical replacement parts.**  
*This will ensure that the safety of the tool is maintained.*
10. Position batteries in proper polarity and do not install batteries of different types, charge levels, or capacities together.
11. This product is not a toy. Keep it out of reach of children.
12. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

## OPERATION

**Note:** Do not expose this product to strong electromagnetic fields, such as those generated by an arc welder, induction heater, etc.

1. Power on: Press the "MEAS" key and temperature reading.
2. Power off: Device will automatically power off if left idle approximately for 5 sec to extend battery life.

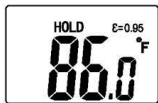
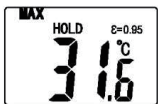


Power on



Power off

### Other function 1: MIN/MAX



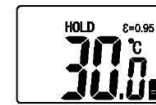
Power on and press the "MODE key" once for the Minimum (MIN) or twice for Maximum (MAX) modes. When the MIN or MAX icon flashes, press the "MEAS key" to confirm. Hold down the "MEAS key", the minimum or maximum reading of measurement will be continuous updated.

### Other function 2: Fahrenheit to Celsius

Power on and press the "MODE key" three times When the °C icon flashes, press the "MEAS key" to

change the scale to °F. The setting will be reserved even if power off.

## BATTERY REPLACEMENT



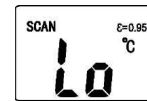
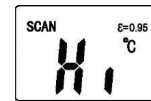
Battery is low and no more measurements are possible.

The battery should be replaced immediately with a CR2032 lithium cell. The battery is located under the twist cover at the rear of thermometer. Please remember to power off the unit before replacing the battery.



A malfunction may occur if the power is on when the battery is replaced. If a malfunction occurs, restart the device. Keep the battery away from children.

## TROUBLE SHOOTING



"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 -20°C (-4°F). Please select target within specifications. If a malfunction still exists, please contact the nearest retailer.

## MAINTENANCE



**WARNING:**

**TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:**

**Do not use damaged equipment. If damage is noted, have the problem corrected before further use.**

The sensor lens should be kept clean at all times and stored at room temperature.

1. Use only a soft cloth or cotton swab with water or medical alcohol when cleaning the lens.
2. Remember to allow the lens to fully dry before using.
3. The thermometer should be stored at -20 to 65°C (-4 to 149°F).

## WARRANTY

One-year limited warranty

**KLUTCH®**

Distributed by  
Northern Tool + Equipment Co., Inc.  
Burnsville, Minnesota 55306  
NorthernTool.com  
Made in China