



Infrared Thermometers 370/371/372/373

from **Test Products International, Inc.**



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The Value Leader

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A. INTRODUCTION

1. Congratulations: Thank you for purchasing TPI products. The 370 Series are easy to use and built to last. All are backed by a 3 year limited warranty. Please remember to complete and return your product warranty registration card.
2. Product Description: The 370 Series are non-contact temperature testers with laser sighting (except 370) to confirm you target. They are easy to use and fit comfortably in your hand.

B. SAFETY CONSIDERATIONS

1. Never point the laser beam at someone's eyes.
2. Never look directly at the laser beam.
3. Use caution when measuring a shiny surface so the laser does not reflect back into your or someone else's eyes.
4. Do not touch the lens to any foreign object.
5. Do not expose the unit to damp environments for extended periods of time.

C. TECHNICAL DATA

Distance to Spot Ratio	8 : 1
Temperature Range	370: 14° to 500°F (-10° to 260°C) 371: 14° to 500°F (-10° to 260°C) 372: -58° to 500°F (-50° to 260°C) 373: 14° to 950°F (-10° to 510°C)
Accuracy @ 23°C and 0.95 emissivity	± 2% of reading or ± 3.5°F (which is greater)
Emissivity	0.95
Laser Sighting	Output <1mW, Wavelength 645-660nm, Class II Laser
°F or °C	Selectable
Display Hold	Yes
Response Time	1 second
Spectral Response	7 - 14 um
Operating Temperature	32° to 120°F (0° to 150°C)
Battery Type	9 Volt

D. MEASUREMENT TECHNIQUES

Push Buttons


1. **POWER ON:** Push the POWER ON button on the 370/371/372/373. The thermometer will power up and the laser will be visible (except 370). After releasing the POWER ON button, the thermometer will automatically turn off after 10 seconds. For extended measurement time you can either hold the POWER ON switch down or release the POWER ON switch and push the LOCK ON switch.
2. **LOCK ON:** This locks the power on and is indicated by the word LOCK on the LCD. Pushing the LOCK button once more deactivates the lock feature and the unit will turn off after 10 seconds.
3. **°F/°C:** This button allows you to view the reading in Fahrenheit or Celsius. The thermometer will power on in the unit of measurement last set when the thermometer automatically powered off.
4. **HOLD:** This button freezes the reading on the LCD. Pushing it a second time releases the LCD to normal mode.

Temperature Measurement

CAUTION: LASER RADIATION - DO NOT STARE INTO BEAM. OUTPUT <1Mw WAVELENGTH 645 - 660nm. CLASS II LASER PRODUCT.
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1. Turn the thermometer on and either hold down the POWER ON button or activate the LOCK ON feature.
2. Line up the laser (except 370) with the target and hold the front of the thermometer eight inches from the target (spot size will be one inch at this distance).
3. Read the temperature on the LCD.

Turning the Laser ON and OFF

1. With the thermometer off, hold down the POWER ON button.
2. Push the LOCK button to turn the Laser ON or OFF. The laser icon  will be on the LCD when activated.
3. Release the POWER button once the LASER is set to the desired mode.

E. ACCESSORIES

<u>Item #</u>	<u>Description</u>
A009A	9 Volt Alkaline Battery
A370	Soft Carrying Pouch for 371/373

F. MAINTENANCE

1. Clean the surface of the instrument and optical lens with a damp cloth.
2. Replace the 9 Volt battery when the low battery indicator appears on the LCD.

G. TROUBLE SHOOTING

Symptom

Probable Cause

Temperature seems inaccurate.

- Dirty optical lens.
- Low battery.
- Instrument held too far away from target increasing desired target area.
- Target surface has poor emissivity qualities.
- Laser sight out of alignment.

371/373 does not turn on.

- Dead or low battery.
- Defective POWER ON switch.
- Broken batter connector.

Laser does not turn on.

- Low battery.
- Broken connector to Laser.

H. WARRANTY

This product is warranted to the purchaser against defects in material and workmanship for three years from the date of purchase.

Covered by Warranty: Repair parts and labor; or replacement of the product at company's option. Normal transportation charges to the purchaser are also covered.

Not Covered by Warranty: Damages to the product which are the result of abuse, improper use or maintenance are not covered. Any other expense, consequential damages, incidental damages, or incidental expenses including damages to property are not covered. Transportation expenses to the company are not covered.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

To Obtain Warranty Performance: Include with the product: your name, address, phone number, written description of the problem and proof of purchase date. Carefully package and return to:

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England

Implied Warranties: Any implied warranties including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to three years from date of purchase. To the extent any provision of this warranty is prohibited by federal or state law and cannot be preempted, it shall not be applicable. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.