



**Infrared Thermometers 380/381/383/384**

**TestProducts International, Inc.**



**The Value Leader**

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## A. INTRODUCTION

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1. Congratulations: Thank you for purchasing TPI products. The 380 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 380 Series are non-contact temperature testers with laser sighting (except 380) to confirm you target. They are easy to use and fit comfortably in your hand.

## B. SAFETY CONSIDERATIONS

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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

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<b>Distance to Spot Ratio</b>	8 : 1
<b>Temperature Range</b>	<b>380:</b> -4° to 572°F (-20° to 300°C) <b>381:</b> -4° to 572°F (-20° to 300°C) <b>383:</b> -31° to 999°F (-35° to 560°C) <b>384:</b> -4° to 1832°F (-20° to 1000°C)
<b>Accuracy @ 23°C and 0.95 emissivity</b>	± 5°F (3°C) below 32°F (0°C) 32°F to 1040°F (0°C to 960°C) ± 2% of rdg or ± 3.5°F (2°C) whichever is greater >1040°F (960°C) ± 2% of rdg + 3 dgts
<b>Emissivity</b>	0.95
<b>Laser Sighting</b>	Output <1mW, Wavelength 645-660nm, Class II Laser
<b>°F or °C</b>	Selectable (slide switch in handle)
<b>Display Hold</b>	Yes
<b>Response Time</b>	500 millisecond
<b>Spectral Response</b>	7 - 14 um
<b>Operating Temperature</b>	32° to 120°F (0° to 150°C)
<b>Battery Type</b>	9 Volt

## D. MEASUREMENT TECHNIQUES

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### Push Buttons

1. **TRIGGER:** Press and hold the trigger button on the 380/381/382/383. The thermometer will power up and the laser will be visible (except 380). After releasing the trigger, the thermometer will hold the last reading then automatically turn off after 10 seconds. For extended measurement time simply hold the trigger on and the thermometer will stay in scan mode.
2. **RECALL LAST READING:** To recall the last reading before the unit powered off, quickly press and release the trigger. The last reading will be displayed for an additional 10 seconds.
3. **°F/°C:** The selector switch is located inside the battery compartment in the handle. Simply swing open the two piece handle and position the slide switch.

### Temperature Measurement

**CAUTION: LASER RADIATION - DO NOT STARE INTO BEAM.  
OUTPUT <1Mw WAVELENGTH 645 - 660nm. CLASS II LASER PRODUCT.**

1. Turn the thermometer on by holding down the trigger.
2. Line up the laser (except 380) with the target and hold the front of the thermometer eight inches from the target (spot size will be one inch at this distance). You can not deactivate the laser on the 381.
3. Read the temperature on the LCD.

## E. ACCESSORIES

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<b>Item #</b>	<b>Description</b>
<b>A009A</b> .....	9 Volt Alkaline Battery
<b>A380</b> .....	Soft Carrying Pouch for 380/381/382/383

## F. MAINTENANCE

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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

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### **Symptom**

**Temperature seems inaccurate.**

### **Probable Cause**

- 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.

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**371/373 does not turn on.**

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

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**Laser does not turn on.**

- Low battery.
- Broken connector to Laser.

## H. WARRANTY

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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:

**TPI, Inc.**  
9615 SW Allen Blvd.  
Beaverton, OR 97005  
USA

**TPI, Ltd.**  
342 Bronte Rd. S., Unit 9  
Milton, Ontario L9T 5B7  
Canada

**TPI, Europe Ltd..**  
Longley House, East Park  
Crawley  
West Sussex RH10 6AP  
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.