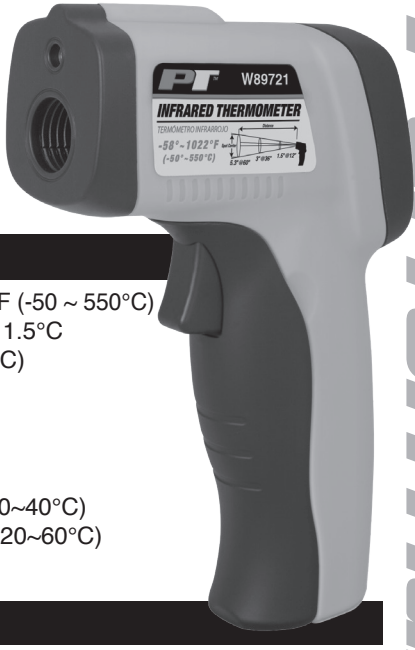
INFRARED THERMOMETER

Item Number W89721

OWNER'S MANUAL



PRODUCT SPECIFICATIONS

Temperature Range:	-58 ~ 1022°F (-50 ~ 550°C)
Accuracy:	+/- 1.5% or 1.5°C
Resolution:	.0.1°F (0.1°C)
Response Time:	500 ms
Emissivity:	0.95 Fixed
Distance to Spot Ratio:	12:1
Spectral Response:	8-14 um
Storage Temperature:	32~104°F (0~40°C)
Operating Temperature:	-4~140°F (-20~60°C)
Power:	9V

INTRODUCTION

Compact rugged and easy to use. Just aim and push the button, it reads current surface temperatures in less than a second. Safely measure surface temperatures of hot, hazardous or hard-to-reach objects without contact.

HOW IT WORKS

Infrared thermometer measures the surface temperature of an object. The unit's optical sensor emitted, reflected, and transmitted energy which is collected and focused onto a detector. The unit's electronics translate the information into a temperature reading which is displayed on the unit. The laser makes aiming and measurement even more precise.

⚠WARNING:

LASER RADIATION - Do not stare into beam or view directly with optical instruments. Do not point laser directly or indirectly (through reflective surfaces) at eye.

FOR YOUR SAFETY,

please read these instructions carefully and retain them for future use.

If you encounter any problems or difficulties, please contact our customer service department at:
1-800-426-1262 between 6:30 a.m. and 4:30 p.m. Pacific time.

PT® Performance Tool

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IMPORTANT: READ AND UNDERSTAND ALL SAFETY INSTRUCTIONS

Failure to follow all instructions detailed in this manual may result in serious personal injury. **SAVE THESE INSTRUCTIONS.**

CAUTIONS

Infrared thermometer should be protected from the following:

- **EMF** (electro-magnetic fields) from arc welders, induction heaters.

- **THERMAL SHOCK** (caused by large or abrupt ambient temperature changes, it allows 30 minutes for unit to stabilize before use.)

- **HIGH TEMPERATURE**. Do not leave the unit on or near objects of high temperature.

⚠**DANGER:** LASER RADIATION - avoid direct or indirect (through reflective surfaces) eye contact with user(s), bystanders or other parties, including pets, children or animals as eye damage may occur.

QUICK START INSTRUCTIONS

BATTERY INSTALLATION: Pull battery door clip and install battery correctly. Press the trigger, LCD display shows reading & battery icon. Release the trigger and the reading will hold for 15 seconds.

LOCATING A HOT SPOT: To find a hot spot, aim the thermometer outside the area of interest, then scan across with an up and down motion until you locate the hot spot. (Turn on the laser pointer for accurate measuring).

MAINTENANCE

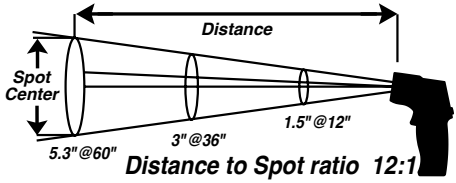
Do not attempt to repair or disassemble the laser level. If unqualified persons attempt to repair this laser product, serious injury may result. Any repair required on this laser product should be performed by authorized service center personnel.

1. **Lens cleaning:** Use clean compressed air to blow off loose particles. Use a clean soft brush to remove any debris away. If necessary clean with a clean damp cotton cloth.
2. **Case cleaning:** Clean the case with a damp sponge/cloth and mild soap.

Note: *Do not use solvent to clean lens. Do not submerge the unit in water.*

OPERATING INSTRUCTIONS

1. When taking a measurement point thermometer toward the object to be measured and hold the trigger. The object under test should be larger than the spot size calculated by the field of view diagram.



Distance to Spot ratio 12:1

2. Distance & spot size: As the distance from the object increases, the spot size of measuring area becomes larger.
3. Field of view: Make sure that the target is larger than the unit's spot size. The smaller the target the closer the measuring distance. When accuracy is critical, make sure the target is at least twice as large as the spot size.
4. Emissivity: Most organic materials, painted or oxidized surfaces have an emissivity of 0.95 (pre-set in the unit). Inaccurate readings will result from measuring shiny or polished metal surfaces. To compensate, cover part of the surface to be measured with masking tape. Measure the temperature of the taped surface once it reaches the same temperature as the original surface.

PARTS IDENTIFICATION

1 - LCD
2 - Back Light Key
3 - Laser Key
4 - °C/°F Key
5 - Battery Cover
6 - Trigger
7 - Laser
8 - Infrared Lens
9 - Low Battery Icon
10 - Data Hold Icon
11 - Laser Icon
12 - °C/°F Symbol
13 - Temp. Reading