

INFRARED THERMOMETER

Item Number W89720

OWNER'S MANUAL



Performance Tool

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 FOR YOUR SAFETY, please read these instructions carefully and retain them for future use.

INTRODUCTION

Compact, rugged and easy to use. Just aim and push the button, read current surface temperatures in less than a second. Safely measure surface temperatures of hot or hard to reach objects.

HOW IT WORKS

Any object radiates infrared energy if its temperature is above absolute zero. This energy travels at the speed of light in all directions. An infrared thermometer lens collects and focuses the infrared energy onto a sensor. The sensor produces a small voltage output, proportional to the target temperature, which is processed and displayed.

WARNINGS & CAUTIONS

The infrared thermometer should be protected from the following:

- Electro Magnetic Fields created by arc welders, induction heaters and similar items.
- Thermal Shock caused by large or abrupt ambient temperature changes. Allow 30 minutes for unit to stabilize before use.
- Do not leave the unit on or near objects of high temperature.

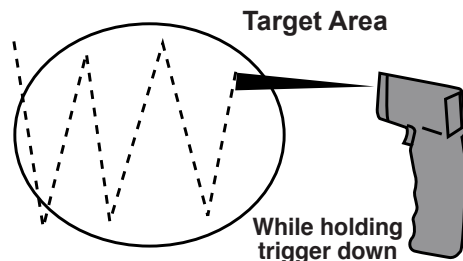
WARNING: Do not point laser directly at eye or indirectly off reflective surfaces.

CAUTION

LASER RADIATION
Do not stare into beam
Class II Laser Product
Max. Power Output < 1mw
Wavelength: 670 nm

INSTRUCTIONS

- 1) Pull and hold trigger (laser pointer is on as default setting) to turn on, LCD display reading and battery icon. Release trigger and the reading will hold for approx. 15 secs.
- 2) Locating a hot spot: Aim the thermometer outside the area of interest. Scan across the area in an up and down motion until the hot spot is located while holding the activation trigger. The thermometer will continue to read the surface temperature while the activation trigger is depressed.



OPERATING

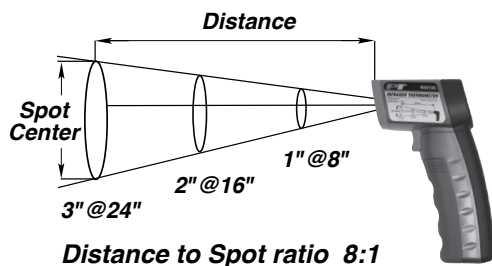
Fahrenheit and Celsius Conversion: Press the °F/°C selector button to switch from Fahrenheit to Celsius readings.

Press the Laser ON/OFF Selector button to turn the laser pointer on or off.

The object being tested should be larger than the spot size calculated by the field of view diagram printed in this manual or on the unit itself.

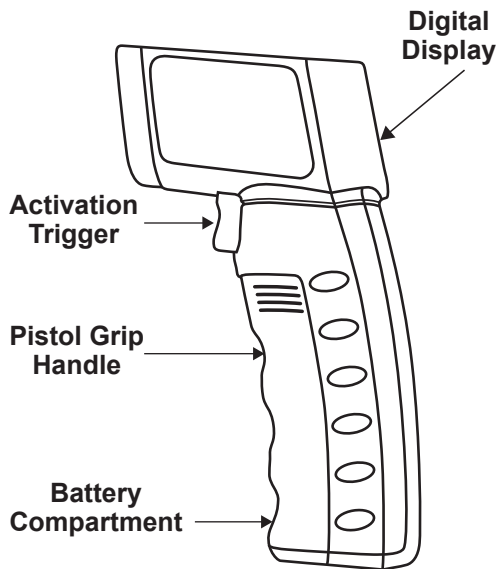
DISTANCE TO SPOT SIZE

The farther the thermometer is from the target, the larger the target area will be. This relationship between distance and target size is normally expressed as the distance to spot size, or D:S ratio. The distance to spot size of this unit is 8:1, so at a distance of 8 feet, the "target" spot would be 1 foot in diameter. The thermometer will display the average temperature across the target area.



EMISSIVITY

Most organic materials and painted or oxidized surfaces have an emissivity of 0.95. This unit is preset at 0.95. Inaccurate readings will result from measuring shiny or polished metal surfaces. To compensate, cover the surface to be measured with masking tape or flat black paint. Measure the tape or painted surface when the area has reached the same temperature as the material underneath.



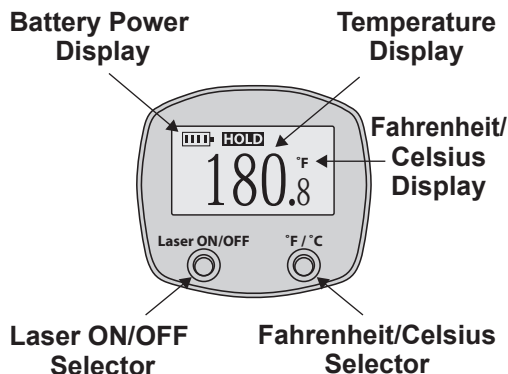
MAINTENANCE

To clean the lens, blow off loose particles using clean compressed air. Gently brush remaining debris away with a moist cotton cloth.

CAUTION:
Do not use solvents to clean the lens.
Do not submerge the unit water.

SPECIFICATIONS

- Temperature range..... 0° F to 968° F (-18° C to 520° C)
- Accuracy +3° F (+2° C)
- Repeatability 2% of reading or 3° F
- Response time 500 ms, 95% response
- Spectral response 7-18 um
- Emissivity 0.95
- Distance to Spot size 8:1
- Operating Temp..... 32° F to 105° F (0° C to 40° C)
- Operating Humidity 10% to 95% RH non-condensing, up to 86° F (30° C)
- Storage Temperature: -4° F to 150° F (-20° C to 65° C) without battery
- Power source 9V Alkaline or rechargeable battery
- Typical battery life 12 hrs. (Laser on)
- Weight 0.33 lb. (5.28 oz.)
- Dimensions 6.3 x 3.54 x 1.7 in.



PT
Performance Tool

P.O. Box 88259 • Tukwila, WA 98138 • 1-800-497-0552
Made in China • © Copyright 2018 • www.wilmarcop.com