

# Tough!

Water proof



## Optex New Standard

Multifunction for Versatile Applications

**67** — water proof (IP67)

**500** — up to 500°C measuring

**0.7** — response, 0.7sec

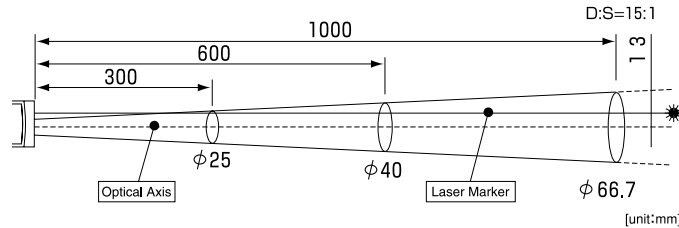
**99** — 99point memory

**200** — 200g in weight

# PT-5LD Portable Non-Contact Thermometer

Specification			
Model	PT-5LD	Emissivity( $\epsilon$ ) Adjustment	DARK ( $\epsilon=0.95$ ) /BRIGHT ( $\epsilon=0.70$ ) Selectable
Measuring range	0 to 500°C	Continuous measurement mode	ON/OFF Selectable
Display range	-10 to 650°C	High/Low Alarm LED/Buzzer	ON/OFF Selectable
Optics	mirror/silicon filter	Memory	99-point memory
Sensing element/Wavelength	Thermopile/8 to 14 $\mu\text{m}$	Power supply	9V layer-built alkaline dry battery (1 piece)
Response time	0.7sec./90%	Battery life	12 Hours (With alkaline battery, max load)
Accuracy ( $\epsilon \approx 0.95$ at 25°C $\pm 3^\circ\text{C}$ )	0~200°C: $\pm 2^\circ\text{C}$ , 201~500°C: $\pm 1\%$	Ambient temperature	0 to 50°C
Temperature unit	°C/°F Selectable	Ambient Humidity	35 to 85%Rh (Without due condensation)
Display resolution	1°C	Storage temperature	-10 to 60°C
Repeatability	$\pm 1^\circ\text{C}$ of reading value	Protective structure	IP67
Sighting method	Laser beam marker (Class2)	Material	ABS (Hygienic body)
HOLD time	15 seconds	Dimension	H×W×D=160×44×42mm
Back-light function	Available	Weight	200g (incl.Battery)

Field of view



Remarks

- ※ The laser marker Points 13mm off to the left from the optical axis.
- ※ The optical resolution values stated in "Field of View" are at minimum 90% energy. The size of measuring object should be sufficiently larger than the field of view (spot size) shown in the illustration.
- ※ The temperature value displayed on LCD is the average temperature within the spot size.

Accessories: 9V layer-built alkaline dry battery(1 piece), Quick Reference card.  
 ※ Design and specifications are subject to change for product improvement without prior notice.

## LED Display & Overview of features

### HI/LO Alarm

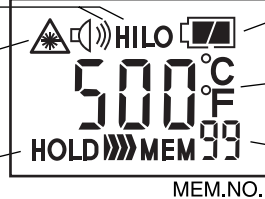
High Alarm  
LED(red)  
& Buzzer(high tone)  
Low Alarm;  
LED(green)  
& Buzzer(low tone)

### LASER Indicator

HOLD  
Hold the last  
reading for 15sec.

## THERMO-HUNTER

LASER ALARM BATT.



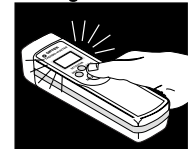
### Battery Level Indicator

°C/°F  
Selectable

99-point Data Memory  
Internal memory stores  
up to 99 reading

Emissivity( $\epsilon$ )  
0.95 or 0.70  
selectable

### Backlight



## Environmental Warnings

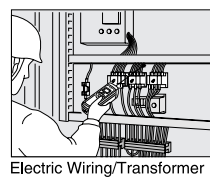
- ⊘ **KEEP THE THERMOMETER AWAY FROM DROPPING WATER AND DO NOT USE IN WATER.**  
This thermometer has waterproofing, but it cannot be operated in the water. Water drops on the filter or the area around it may cause incorrect measurement. Wipe up the filter and the area around it completely before taking measurement.
- ⚠ **KEEP THE THERMOMETER AWAY FROM STRONG ELECTROMAGNETIC SOURCES.**  
Usage in such environments may cause irreparable damage or incorrect measurement.
- ⚠ **KEEP THE THERMOMETER AWAY FROM DIRECT SUNLIGHT, DUST, HIGH TEMPERATURES AND HIGH HUMIDITY DURING USE AND STORAGE.**  
This may cause irreparable damage or incorrect measurement.

## Usage Warnings

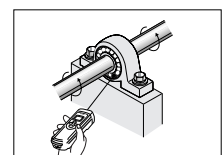
- ⚠ **AVOID MEASURING SHINY OBJECTS.**  
Shiny objects, of which emissivity value is low, reflect surrounding temperatures. As this thermometer's sensitivity to emissivity is fixed at 0.95/0.70, the displayed temperature could differ from the actual temperature of objects, which has different emissivity value. When you wish to measure shiny object like metals, put a piece of optional black tape or apply black paint/marker on the surface of the measuring object.
- ⚠ **DO NOT LET THE THERMOMETER TOUCH THE OBJECT THAT IS BEING MEASURED.**  
The unit is a non-contact thermometer's. Touching or getting too close to the objects with high temperatures may cause irreparable damage or incorrect measurement.

Product mentioned in this catalogue equips a laser element classified Class2. In case of re-export to foreign countries, please confirm the relevant regulation for laser products in the destination country.

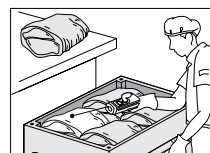
## Applications



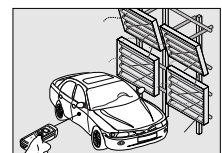
Electric Wiring/Transformer



Bearing



Freezer/Refrigerator



Motor/Machine

## Safe Usage

⚠ <b>WARNING</b>	Do not look into the laser beam, nor point it directly at eyes. Even the reflection is harmful. This laser may cause eye injury or damage to your health.
⚠ <b>CAUTION</b>	This product is not a clinical thermometer; therefore, can not be used for medical purposes.