



Single Touch

Portable
Non-Contact
Thermometer

THERMO-HUNTER
PT-2 series
PT-02 series
(0.1°C display resolution)

Made in Japan

Quick!

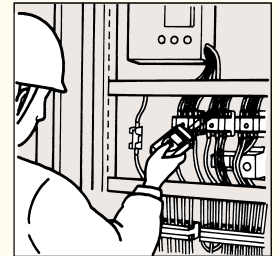
Non-Contact Temperature Measurement
Easy-to-Carry Pocket-Sized Body

- Measuring temperature range
PT-2 series : -40~510°C, PT-02 series : -40~200°C
- Quick response 0.8sec (PT-2 series)
- Display resolution 0.1°C (PT-02 series)
- Measurement area : 100/1000mm
- Large, easy-to-view LCD display

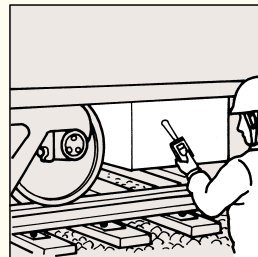
Applications



Motor/ Machine



Electric Wiring / Transformer



Transport/Automotive



Freezer / Refrigerator

Compact



CAUTION
DO NOT STARE INTO BEAM
LASER DIODE POWER MAX1.0mW
WAVE LENGTH 670nm
CLASS2 LASER PRODUCT

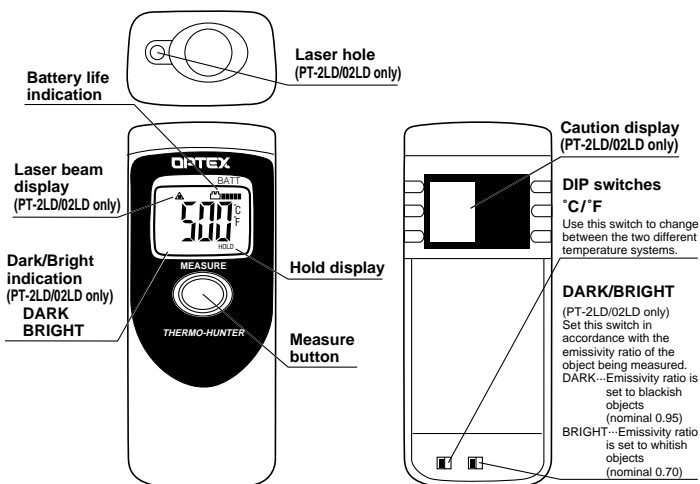
CAUTION
LASER RADIATION
DO NOT STARE INTO BEAM
670nm/1.0mW MAX
CLASS II LASER PRODUCT
THIS PRODUCT COMPLIES WITH
21 CFR 1040.10 AND 1040.11

Specifications

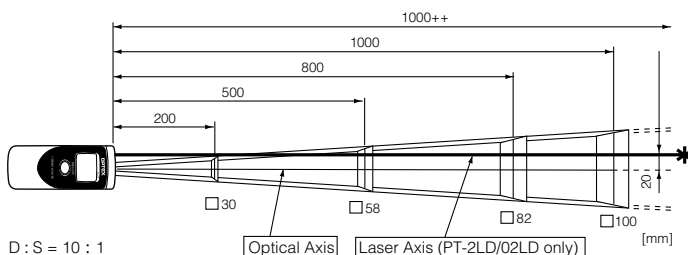
Model	PT-2L	PT-2LD	PT-02L	PT-02LD
Measuring range	-40~510 °C (-40 ~ 950 °F)		-40~200 °C (-40 ~ 392 °F)	
Display range	-51~538 °C (-60 ~ 1000 °F)		-50~230 °C (-58 ~ 446 °F)	
Field of view	100/1000mm (D: S=10:1) square spot			
Optics	mirror/silicon filter			
Sensing element/Wavelength	Thermopile/8~14 μm			
Response time	0.8sec/90%		1.5sec/90%	
Measuring Accuracy (=0.95, at 25°C ±3°C)	Less than 0°C: ±3°C, 0°C~200°C: ±2°C, 201°C~ : ±1% of reading value (Less than 32°F: ±6°F, 32~400°F: ±4°F, 401°F~ : 1% of reading value)		Less than 0°C: ±3°C, 0°C~200°C: ±2°C (Less than 32°F: ±6°F, 32~400°F: ±4°F)	
Repeatability	± 1°C (2°F) of reading value		± 0.5°C (1°F) of reading value	
Display resolution	1°C (1°F)		0.1°C (200°C ~ :1°C) 0.1°F (200°F ~ :1°F)	
Sighting method	N/A	Blinking laser marker	N/A	Blinking laser marker
Emissivity ratio () adjustment	0.95	0.95/0.7 (Switchable)	0.95	0.95/0.7 (Switchable)
Back-light function	N/A	Available	N/A	Available
Temperature unit	°C/°F (Switchable)			
Battery type	AA (Alkaline battery) X 2pcs.		AA (Alkaline battery) X 2pcs.	
Battery life (Alkaline)	Approx. 60 hours	Approx. 30 hours	Approx. 60 hours	Approx. 30 hours
Ambient temperature	0~50°C (32 ~ 120°F)			
Ambient humidity	35 ~ 85%RH (Without dew condensation)			
Storage temperature	-10 ~ 60°C (14 ~ 140°F)			
Dimensions	H X W X D = 140 X 56 X 37mm			
Weight (Incl. battery)	175g	180g	175g	180g

Standard accessories : " AA " (Alkaline Battery) x 2pcs. Optional accessories : Black tape, Protective pouch
Design and specifications are subject to change for product improvement without prior notice.

Display and Functions



Field of View



Axis of the laser (PT-2LD/02LD only) is located 20mm left from the optical axis.
The size of the object to be measured must be sufficiently bigger than the measuring diameter shown in the above illustration.

Safe Usage

WARNING	Please don't look into the laser directly or direct it toward the eyes since this may cause eye injury or damage your health.(PT-2LD/02LD only)
CAUTION	This product is not a clinical thermometer and therefore, cannot be used for medical purposes.

Environmental Conditions for Safe Usage

- ⚠ **KEEP THE THERMOMETER AWAY FROM DROPPING WATER AND DO NOT USE IN WATER.**
This thermometer is not water-proof.
- 🔥 **KEEP THE THERMOMETER AWAY FROM DIRECT SUNLIGHT, DUST, HIGH TEMPERATURES AND HIGH HUMIDITY DURING USE AND STORAGE.**
Otherwise, the optical lens will become dirty or damaged. Such usage or storage will result in incorrect measurement.
- ⚡ **DO NOT APPLY SUDDEN TEMPERATURE CHANGES TO THE THERMOMETER.**
Sudden temperature change may cause incorrect measuring results. In such cases, leave the thermometer for a moment to let it return to a stable condition prior to the next measurement.
- 📡 **KEEP THE THERMOMETER AWAY FROM PRODUCTS WHICH PRODUCE STRONG ELECTROMAGNETIC WAVES.**
Usage in such environments will cause irreparable damage to the unit and incorrect measurements.
- 🔥 **SPECIFIC DISTANCES ARE NECESSARY FOR MEASURING HIGH TEMPERATURES**
Excessive heat to the thermometer caused when measuring high temperatures from an inadequate distance may damage its filter and result in incorrect measurements.

Products mentioned in this catalogue equip a laser element classified Class 2. In case of re-export to foreign countries please confirm the relevant regulation for laser products in the destination country. Optex is not responsible for any dispute and damage being related to Product Liability provided that the products would be re-exported.

[Option] Black Tape for Non-Contact Thermometers



[Basic Usage and Principles]

The Black Tape (HB-100) can be applied to any object, letting you easily and correctly measure the temperature of any object. When measuring objects with manual emissivity settings, use the black tape and adjust the emissivity ratio of the model to 0.95. The Black Tape (HB-100) can endure temperatures up to 150°C.

Dimensions : 60 x 2000mm

[Option]



Protective Pouch for PT-2/02 series

PH-2



OPTEX CO., LTD.
4-7-5 Nionohama Otsu 520-0801 Japan
TEL 81-77-524-6049 FAX 81-77-524-1491