

# PT-S80/PT-U80

(With USB output)

## Specification

Model	PT-S80	PT-U80
Measuring range	-30 to 600°C	
Field of view	□30mm/1000mm [D:S=33:1]	
Optics	Si lens	
Sensing element	Thermopile	
Wavelength	8 to 14 μm	
Response time	0.5 sec. / 90 %	
Accuracy (ε=0.95)	-30.0 to 0°C:3°C, 0.1°C to 200°C:2°C, 201°C to 600°C:1%	
Repeatability	1°C of reading value	
Display resolution	-30.0 to 199.9°C: 0.1°C, 200 to 600°C: 1 %	
Sighting method	Coaxial Laser marker (Class 2)	
HOLD time	15 seconds	
Continuous measurement mode	N / A	ON/OFF Selectable
USB output	N / A	Available
Data storing	Single memory	35-point memory (max 150-point)
Back light	EL back light	
High / Low alarm	Alarm LED, Buzzer, (ON/OFF Selectable)	
Emissivity (E) adjustment	0.95 / 0.85 / 0.70 Selectable	ε(0.3 to 1.20 / 0.01 step)
Display function	NOR/MAX/MIN	
Power supply	AA alkaline battery (2 pieces)	
Battery life	15 hours (with max load)	
Ambient temperature	0 to 50°C	
Ambient humidity	35 to 85 % RH (no condensation)	
Storage temperature /humidity	-10 to 60°C/35 to 85% RH	
Material	ABS/TEEE	
Dimensions	H×W×D = 182×56×38mm	
Weight	Approx. 230 g (including batteries)	

\* Accessories: Size AA alkaline battery (two) for operation check, Instruction manual, Protective case for PT-S80/U80, USB cable (for PT-U80 only), Optional: Black body tape HB-250

\* Specifications are subject to change for product improvement without prior notice.

## Outside dimensions

Laser emission window

Silicon lens

Alarm LED

High alarm "RED"

Low alarm "GREEN"

Ambient Light sensor

MAX / MIN button

For switching display functions and selecting setting value

MEASURE button

For temperature measurement and other various settings

MEM/CAL button

Store the DATA  
Recall the DATA

SET button

(inside of cover)

PT-S80: ALARM

For setting

PT-U80: Emissivity, ALARM,

For clock setting



Front

Side

## Standard accessory

Protective case



## Options



### Black Tape HB-250

The Black Tape (HB-250) is designed for more accurate measurement, especially if the target object has a shiny surface. Apply HB-250 on the surface of the target and measure the area covered by HB-250 with emissivity setting at 0.95.

## Caution

### Difficult measurement cases

- When the surface being measured is reflective, such as polished metal.
  - \* (Before measuring, apply the optional HB-250 tape or apply a matte finish.)
- When measuring through glass

### Safety instructions

- Please read through the instruction manual before use.
- This product is not a clinical thermometer, therefore, cannot be used for medical purposes.
- Keep the thermometer away from water contact, as it is not waterproof.
- Avoid rapid change of the ambient temperature, as this may cause measurement error.
- Keep the thermometer away from strong electromagnetic sources.

### Laser beam

- This product uses laser classified as class II complying with JIS C 6802.
- For safe use, follow the warning labels attached to this product.
- This is a portable product with the laser maker certificated by JQA (Japan Quality Assurance of Organization).

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DUE TO CONTINUOUS PRODUCT IMPROVEMENT, THE DESIGN AND TECHNICAL SPECIFICATIONS  
ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

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