

**ponpe**

INSTRUMENTS



# INFRARED THERMOMETER

เครื่องวัดอุณหภูมิ แบบอินฟราเรด

# PONPE 450IR

## FEATURES

- \*Wide Temperature range: -50~+550°C or -58~1022°F
- \* High accuracy of  $\pm 1.5\%$  or  $\pm 1.5^\circ\text{C}$  Whichever is greater
- \* Distance Spot Ratio of 12:1
- \* °C/°F Selection
- \* Auto Data Hold
- \* Laser Target Pointer ON/OFF selection
- \* Backlight ON/OFF selection
- \* Auto Power Off if idle or no operation in 7sec
- \* Large LCD Screen w/ easy to read Instant Real-time temperature
- \* Quick and highly accurate response
- \* Ergonomically shaped hand grip
- \* With CE marking, meets EU safety, health and environmental requirements

# INFRARED THERMOMETER

# PONPE 450IR

เครื่องวัดอุณหภูมิ แบบอินฟราเรด

## Technical Parameters

Temperature range	-50~550°C (-58~1022°F)
Accuracy	0~550°C(32~1022°F) : $\pm 1.5^\circ\text{C}(\pm 2.7^\circ\text{F})$ OR $\pm 1.5\%$ -50~0°C(-58~32°F): $\pm 3^\circ\text{C}(\pm 5^\circ\text{F})$ WHICHEVER IS GREATER
Resolution	0.1°C or 0.1°F
Repeatability	1% of reading or 1°C
Response time	500 mSec, 95% response
Spectral response	5-14 um
Emissivity	0.10~1.00 Adjustable (0.95 Preset)
Distance to Spot size	12:1
Operating Temperature	0 ~40°C (32 ~ 104°F)
Operating Humidity	10~95%RH non-condensing, up to 30°C(86°F)
Storage Temperature	-20 ~ 60°C (-4~140°F)
Power	3V (1.5V AAA batteryX2)
Typical battery life (Alkaline)	Non-laser mode: 22 hrs; Laser Models: 12 hrs

Material	Emissivity	Material	Emissivity
Aluminum	0.30	Iron	0.70
Asbestos	0.95	Lead	0.50
Asphalt	0.95	Limestone	0.98
Basalt	0.70	Oil	0.94
Brass	0.50	Paint	0.93
Brick	0.90	Paper	0.95
Carbon	0.85	Plastic	0.95
Ceramic	0.95	Rubber	0.95
Concrete	0.95	Sand	0.90
Copper	0.95	Skin	0.98
Dirt	0.94	Snow	0.90
Frozen food	0.90	Steel	0.80
Hot food	0.93	Textiles	0.94
Glass(plate)	0.85	Water	0.93
Ice	0.98	Wood	0.94



**LIQUID CRYSTAL DISPLAY**  
WE USE HIGH QUALITY LCD SCREEN TO CLEAR THE DATA

**BATTERY DOOR**  
OPEN THE LID AND PUT A 1.5V AAA \* 2 BATTERY ON THE ANODE

**INFRARED MEASUREMENT**  
GETTING AWAY FROM TESTING OBJECTS CAN ALSO RESULT IN THE SAFETY OF TEST PERSONNEL

**THE KEYBOARD**  
THE KEY IS SENSITIVE, WEAR-RESISTANT AND PRESSURE-RESISTANT. RICK-AGING CAN BE PRESSED BY MILLIONS

**Diagram Labels:**  
1: LED display  
2: Backlight  
3: selected features  
4: identify key  
5: trigger  
6: Battery door

**Diagram Labels:**  
A: measuring reading  
B: measuring unit  
C: low temperature alarm icon  
D: data hold icon  
E: scanning icon  
F: high temperature alarm icon  
G: laser on icon  
H: back light on icon  
I: battery power icon  
J: mode  
K: emissivity indicator  
L: functional value

**Diagram Labels:**  
D:S=12:1  
38mm@300mm, 75mm@900mm, 132mm@1500mm  
1.5" @ 12", 3.0" @ 36", 5.3" @ 60"

**Diagram Labels:**  
When take measurement, pay attention to the Distance to Spot Size. As the Distance (D) from the target surface increases, the spot size (S) of the area measured by the unit becomes larger. The Distance to Spot size of the unit is 12:1. This unit is equipped with a laser, which is used for aiming. Field of view. Make sure the target is larger than the unit's spot size. The smaller the target the closer measure distance. When accuracy is critical, make sure the target is at least twice as large as the spot size.

